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1988-1990	Bruno Reichart, MD
1990-1991	Margaret Billingham, MD
1991-1992	Christian Cabrol, MD
1992-1993	John O'Connell, MD
1993-1994	Eric Rose, MD
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1995-1996	Sharon Hunt, MD
1996-1997	William Baumgartner, MD
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2002-2003	Stephan Schueler, MD
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Bruno Reichart, MD

1990 San Diego, CA
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1992 San Diego, CA
Eric A. Rose, MD

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Maria Rosa Costanzo, MD

1994 Venice, Italy
John Wallwork, MBChB, FRCS

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Leslie W. Miller, MD

1996 New York, NY
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2007 San Francisco, CA
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Pioneers in Transplantation

- 2000 Christiaan Barnard, MD
Joel D. Cooper, MD
Norman E. Shumway, MD
2008 Richard R. Lower, MD

Lifetime Achievement Award

- 2004 Sir Magdi Yacoub, MD
1999 Keith Reemtsma, MD
1998 Norman Shumway, MD

Lifetime Service Award

- 1997 Jacques Losman
1996 Michael Kaye

ISHLT/Astellas Transplant Career Development Award

- 2006 Dennis A. Wigle, MD, PhD

ISHLT/Novartis Transplant Career Development Award

- 2004 Allan M. Ramirez, MD

ISHLT/Roche Transplant Career Development Award

- 2002 Anthony Azakie, MD
2000 Gordon D. Wu, MD

ISHLT/Roche Transplant Research Fellowship Grant

- 2007 Satish N. Nadig, MD
2006 Rachel L. Anderson, MBBS
2005 Ahmad Saad, MD
2004 Kendra N. Taylor, PhD
2003 Felix Fernandez, MD
2002 Ruediger Hoebelt, MD
2001 Matteo Vatta, PhD
2001 Arnar Geirsson, MD
2000 Christopher H. Wigfield, FRCS
1999 Donald Wong, PhD
Sivasai Krovvidi, PhD
1998 Kelly S.A. Blair, MD
A.M. El Gamel, MD
1997 Jonathen Chen, MD
Anne K. Raisanen-Sokolowski, MD
1996 Tuija S. Ikonen, MD

ISHLT/Novartis Transplant Research Fellowship Grant

- 2007 Timothy M. Millington, MD

2006 Matthew J. Weiss, MD
2000 Richard S. Lee, MD
1999 George Juang, MD
Satoshi Saito, MD
1998 Margaret L. Schwarze, MD

ISHLT/Astellas (Fujisawa) Transplant Research Fellowship Grant

2007 Sonja Schrepfer, MD
2005 Arne Neyrinck, MD
2004 Christian A. Gleissner, MD
2003 Ewout J. van den Bos, MD
1997 Alyssa M. Krasinskas, MD

ISHLT/Actelion Transplant Research Fellowship Grant

2007 Takeshi Oyaizu, MD, PhD
2004 Tsuyoshi Shoji, MD, PhD

ISHLT/XDx Transplant Research Fellowship Grant

2007 Mylvaganam Jeyakanthan, MD
2006 Edward N. Seung, PhD
2004 Monica Zwierzchonieuska, MD

ISHLT/Encysive Transplant Research Fellowship Grant

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2006 Heather E. Merry, MD

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2006 Thierry Troosters, PhD
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2003 Diane H. Leloudis, RN, MSN
2003 Janet E. Madill, PhD
2002 Annette J. De Vito Dabbs, RN, MN, PhD
2001 Lynn Doering, RN, DNSc
2000 Nancy M. Albert, MSN, RN
1999 Jeanne Salyer, PhD
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1999 Joerg Koglin, MD
1998 Carla C. Baan, MD
1997 Simon D. Eiref, MD
1996 Moninder S. Bhabra, MD
1995 Elizabeth A. Davis, MD
1994 Jobst Winter, MD
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1992 David P. Kapelanski, MD
1991 A. Jiminez, MD
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1985 Michael A. Breda, MD
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1983 Robbin G. Cohen, MD

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2006 Kathleen L. Grady, PhD, RN
2005 Mary Amanda Dew, PhD

ABOUT ISHLT

The International Society for Heart and Lung Transplantation (ISHLT) is a not-for-profit organization dedicated to the advancement of the science and treatment of end-stage heart and lung diseases. ISHLT was created in 1981 at a small gathering of about 15 cardiologists and cardiac surgeons. Today we have over 3000 members from over 45 countries, representing over 10 different disciplines involved in the management and treatment of end-stage heart and lung disease.

This multinational, multidisciplinary mix is one of the biggest strengths of the Society. It brings greater breadth and depth to our educational offerings and provides an exceptional environment for networking and exchanging information on an informal basis.

Our members include anesthesiologists, basic scientists, cardiologists, cardiothoracic surgeons, ethicists, immunologists, nurses, pathologists, perfusionists, pharmacists, pulmonologists, tissue engineers, and transplant coordinators. Despite their differing specializations, all ISHLT members share a common dedication to the advancement of the science and treatment of end-stage heart and lung disease.

The mission of the Society is:

1. To associate persons interested in the fields of heart and lung transplantation, end-stage heart and lung disease, and related sciences.
2. To encourage and stimulate basic and clinical research in these disciplines and to promote new therapeutic strategies.
3. To hold scientific meetings featuring presentations and discussions relevant to these disciplines.
4. To sponsor a scientific journal for the publication of manuscripts related to these disciplines.
5. To establish and maintain an international registry for heart and lung transplantation.
6. To award research grants and establish endowments for the study of these disciplines.

ABOUT BOSTON

Boston is one of America's oldest cities, first settled in 1630. The capital of Massachusetts, Boston is a city rich in history and tradition, yet vibrant and modern. Located along the northeastern seaboard of the United States, Boston is about 200 miles northeast of New York City.

Boston is a city of neighborhoods, colleges, and wonderful walking trails designed to help visitors learn about its glorious past. The most popular tour is the Freedom Trail. It takes walkers along a 2 ½ mile trail of popular sites from the American Revolution. The Freedom Trail begins at the Boston Common (the oldest public park in America) and ends at Bunker Hill in Charlestown. By following the well-marked red line, tourists will see 16 of Boston's most important historical sites.

Boston is made up of many charming neighborhoods with fine restaurants and antiques stores. Back Bay is a virtual open-air museum of various residential architectural styles including Victorian, Italianate, and Gothic Revival. Beacon Hill harkens to another era with its gas lamps, shade trees, brick sidewalks and grand townhouses built between 1800 and 1850. Two of the prettiest streets in Beacon Hill are Chestnut and Mt. Vernon. There are wonderful antiques shops along Chestnut Street.

Across Boston Harbor is Charlestown, a predominantly Irish working class neighborhood. You can reach Charlestown by trolley or a quick ferry trip from Long Wharf that costs \$1. Charlestown is also home to the U.S.S. Constitution, a 44-gun frigate first commissioned in 1798 and now a living museum of Boston's shipbuilding past.

The Museum of Fine Arts is second in the United States only to New York City's Metropolitan Museum of Art. A glorious grand staircase with colorful murals painted by John Singer Sargent welcomes visitors into the museum. Founded in 1870, the museum is divided into nine areas. It houses the finest and largest collection of Japanese art outside of Japan. There is also a large collection of impressionist paintings and major works by Homer Winslow, Edward Hopper, and over 60 paintings by John Singleton Copley. Other galleries feature art of Africa, sculptures and

ceramics from the Ancient Americas, and a wonderful collection of tableware made by Revolutionary patriot and silversmith, Paul Revere.

One of Boston's most famous landmarks is Faneuil Hall. An historic market place and greeting place built in 1742, it houses an information desk on the first floor for visitors and tourists. With its gourmet coffee shops and boutique stores, it is a popular place for both locals and tourists.

Across from Faneuil Hall is the Quincy Market, a wonderful place for people watching and shopping. You'll find café's with international and specialty foods, popular chain clothing stores, unique gift shops, book stores, open air bars and restaurants. Street jugglers, magicians, and entertainers perform daily. If you're in town on a Friday or Saturday, you'll want to check out the open-air Hay Market. From dusk to dawn, vendors with push carts sell everything from fresh fruits and vegetables to fish, meats and cheeses.

There are over 50 college campuses in the greater Boston area. Just across the Charles River is Cambridge, home of America's oldest university, Harvard. Harvard Square, a very popular spot for people watching, is also known for its street musicians performing on weekend nights and Sunday afternoons. About 20 miles northwest of Boston are Lexington and Concord. Lexington is a quaint, quiet town of historic homes and taverns. Lexington is where Paul Revere made his historic ride to warn the townsfolk the British were coming. Concord, the home of Ralph Waldo Emerson, Henry David Thoreau, and Walden Pond is about 22 miles northwest of Boston. Salem, where suspected witches and sorcerers faced interrogation and death, is 20 miles north east of Boston. The Salem Witch Museum is filled with interesting exhibits and the Witch Dungeon Museum historically recreates the witch trials. You can go back in time to December 1627 when the pilgrims landed at Plymouth Rock. Plimoth Plantation, located about 30 miles southeast of Boston in Plymouth, is staffed by interpreters dressed as native American Indians, pilgrims, and sailors. It offers visitors a realistic look at everyday life of these early settlers and includes preserved and restored 17th century homes. You can also board a full-scale replica of the Mayflower. (www.usatourist.com for more information).

HIGHLIGHTS OF THE SCIENTIFIC PROGRAM

While this year's program offers a greater breadth and depth of information related to thoracic transplantation than previously possible, it also spotlights the role that the newest technologic advances will have in medicine and transplantation. Wednesday morning's satellite symposia cover a broad range of topics. These include sessions exploring the latest advances and the future directions in mechanical circulatory and respiratory support in adults and children, emerging concepts in graft remodelling, advances in our understanding and management of lung transplantation in cystic fibrosis, the interactions between innate immunity and rejection, and quality of life and cultural diversity in thoracic transplantation. Additional areas of major focus in this meeting will be the enormous promise of the emerging field of 'biomarkers', the continuing role of B cells and antibody-mediated organ injury and the difficult issue of coagulopathy in mechanical support. Two special concurrent sessions will address advances in *ex-vivo* support and resuscitation of donor lungs and the prevention of infectious diseases in thoracic transplant recipients. Advances in our understanding of immunobiology, diagnostic testing, and current and future treatment strategies will be highlighted.

This year we are continuing the popular Sunrise Symposia highlighted by sessions covering basic immunobiology and immune therapies for the clinician, enabling clinical research, advances in the understanding and treatment of BOS, new and improved diagnosis and treatment of fungal infections, the state-of-the-art use of continuous flow devices, updates on PTLD and the role of regulatory T cells in thoracic transplantation.

We will have the opportunity to pay tribute to one of the true pioneers in our field, Dr. Richard Lower, who will deliver a Pioneer Lecture, and to explore the strategic plans for the future of our society in Paul Corris's presidential address.

One of the most exciting components of this year's meeting will be a series of lectures covering the hottest areas of scientific advances and their application in medicine and transplantation. These include the role that genomics and proteomics will play in the future management of our patients, an update on organ preservation systems and the continued promise of immune tolerance. We look forward to your attendance and active participation in this year's meeting.

PHILIP K. CAVES AWARD SESSION

The 8 finalists for the Philip K. Caves Award will present their original research work in a dedicated session. This prestigious Award is named for the pioneer of the technique of transvenous endomyocardial biopsy. The \$1000 prize is awarded to the best presentation by a resident/fellow/student who is first author of the abstract. Come and support

the best and brightest residents, fellows and graduate students – the future of our society - as they present their research findings and are judged for the winner of this prestigious award.

PRESIDENT'S GALA RECEPTION

The President's Gala Reception will be held Friday, April 11, from 8:00 pm – 10:00 pm at the Boston Public Library, which is just across the street from the Marriott Copley Place. Please be sure to join us for this wonderful event. Founded in 1848, by an act of the Great and General Court of Massachusetts, the Boston Public Library (BPL) was the first large free municipal library in the United States. The present Copley Square location has been home to the Library since 1895, when architect Charles Follen McKim completed his "palace for the people." One ticket to the Gala Reception is included with each paid registration. Additional tickets may be purchased for \$75 each.

CONTINUING MEDICAL EDUCATION INFORMATION

Accreditation

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education. The International Society for Heart and Lung Transplantation is accredited by the ACCME to provide continuing medical education for physicians. ISHLT designates this activity for a maximum of 31.50 hours in Category 1 credit toward the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Disclosure

Current guidelines state that participants in CME activities must be made aware of any affiliation or financial interest that may affect the program content or a speaker's presentation. Planners, Faculty and Chairs participating in this meeting are required to disclose to the program audience any real or apparent conflict(s) of interest related to the content of their presentations or service as Chair/Planner. Only those indicating such a relationship are listed in the table below. All others have indicated they have no such relationship to disclose. These disclosures are printed below. Additionally, all speakers have been asked to verbally disclose at the start of their presentation any financial interest or affiliations and to indicate if a product they are discussing is not labeled for the use under discussion or is still investigational.

Educational Objectives

The International Society for Heart and Lung Transplantation is a leading organization providing education for medical professionals involved in heart and lung transplantation. Because of the rapid advances in medicine in general and transplantation medicine specifically, transplant professionals are in need of regular opportunities to update and maintain their knowledge of advances and changes in transplant medicine. This meeting is designed to address their competence and performance in practice needs.

Goals

To enable participants to improve their competence and professional performance around current practices, emerging technologies, and medical advances related to heart and lung transplantation and end-stage heart and lung disease; and to provide a forum for participants to engage in discussion, debate, and examination regarding the efficacy and applicability of these current practices, emerging technologies, and medical advances.

Target Audience

The audience for this program includes physicians, surgeons, scientists, nurses, and transplant coordinators engaged in the practice of heart and lung transplantation, the management and treatment of heart and lung transplant recipients, the management and treatment of patients with end-stage heart or lung disease, basic science or clinical research related to these fields, or specialties which cause them to become involved in the treatment of transplant recipients or patients with end stage heart or lung disease.

Learning Objectives

At the conclusion of this meeting, participants should be able to:

1. Understand organ preservation/reperfusion techniques and their implications for organ viability, donor selection, and recipient outcomes

2. Identify, prevent, and improve treatment for post-transplant infectious diseases and other complications to improve patient outcomes
3. Compare and evaluate the advantages and disadvantages of various mechanical circulatory and respiratory support systems and their associated patient selection criteria
4. Describe the state-of-the-art in clinical heart and lung failure treatment and the criteria for and outcome implications of transplant versus medical therapy
5. Evaluate issues of controversy in the selection of candidates for heart and lung transplantation, such as age, prior transplantation, and systemic diseases
6. Compare and evaluate the advantages and disadvantages of various pharmacologic, non-pharmacologic, and biologic immunosuppression techniques
7. Understand the various methods of diagnosing, monitoring, and treating transplant rejection
8. Describe how psychosocial and behavioral issues impact clinical post-transplant outcomes and quality of life for patients
9. Identify current animal and other laboratory models relevant to the basic science of transplant immunobiology and discuss their application to the transplant setting

CONFLICT OF INTEREST DISCLOSURE

(see separate attachment)

The International Society for Heart and Lung Transplantation is most grateful for the educational grants and the support of

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TEMPLATE

(see separate attachment)

SCIENTIFIC PROGRAM AND MEETING SCHEDULE

All meetings and activities will take place at the John B. Hynes Convention Center unless otherwise specified. All papers will be presented in English.

TUESDAY, APRIL 8, 2008

7:00 AM – 8:00 PM

Exhibition Hall Build /Large Booth Construction (Exhibit Hall A)

5:00 PM – 10:00 PM

ISHLT Board of Directors Meeting (Marriott Hotel, New Hampshire Room)

6:00 PM – 9:00 PM

Registration Open (Boylston Hallway 3rd Floor)

6:00 PM – 9:00 PM

Slide Ready Room Open (Room 301)

WEDNESDAY, APRIL 9, 2008

7:00 AM – 8:30 AM

Corporate Partner Breakfast Briefing (Room 300)

7:00 AM – NOON

Exhibit Booth Set-Up (Exhibit Hall A)

Mounting of Posters #33 - 91 (Exhibit Hall A)

7:00 AM – 6:00 PM

Registration Open (Boylston Hallway 3rd Floor)

7:00 PM – 6:00 PM

Slide Ready Room Open (Room 301)

8:00 AM – 6:00 PM

Press Office Open (Room 308)

8:00 AM – 10:00 AM

SATELLITE SYMPOSIUM 1: Impact of MCS on Reverse Remodeling (Ballrooms A-C)

Chairs: O. Howard Frazier, MD and Robert C. Bourge, MD

8:00 AM Scientific Issues in Myocardial Recovery, *Guillermo Torre-Amione, MD, PhD, The Methodist Hospital, Houston, TX*

8:30 AM Markers for Myocardial Recovery, *Hendrick Milting, PhD, Heart Center NRW/Klessmann Institute, Bad Oeynhausen, Germany*

9:00 AM Adjuvant Therapy and MCS for Ventricular Recovery, *Nicholas R. Banner, FRCP, Harefield Hospital, Harefield, United Kingdom*

9:30 AM The German Experience with MCS Recovery Therapy, *Roland Hetzer, MD, PhD, German Heart Institute, Berlin, Germany*

8:00 AM – 10:00 AM

SATELLITE SYMPOSIUM 2: Cardiac Allograft Vasculopathy: Pathophysiology, Diagnosis, Prognosis and Therapy (Rooms 304-306)

Chairs: Heather J. Ross, MD, FRCPC, MHSC and Roberto Fiocchi, MD, PhD

8:00 AM Pathophysiology of Cardiac Allograft Vasculopathy: The Role of the Immune System, *Alida Caforio, MD, PhD, University of Padova, Italy*

8:20 AM Pathophysiology of Cardiac Allograft Vasculopathy: The Role of the Non-Immune Factors, *Hannah A. Valentine, MD, Stanford University School of Medicine, Stanford, CA*

8:40 AM Diagnostic and Prognostic Approaches to Cardiac Allograft Vasculopathy, *Randall C. Starling, MD, MPH, Cleveland Clinic Foundation, Cleveland, OH*

9:00 AM Therapeutic Strategies for the Prevention and Amelioration of Cardiac Allograft Vasculopathy, *Howard J. Eisen, MD, Drexel University College of Medicine, Philadelphia, PA*

9:20 AM Debate: Should We Perform Re-transplantation?

Pro: *Sharon A. Hunt, MD, Stanford University Medical Center, Stanford, CA*

Con: *Haissam A. Haddad, MD, University of Ottawa Heart Institute, Ottawa, Canada*

8:00 AM – NOON

SATELLITE SYMPOSIUM 3: Challenges of Lung Transplantation in Cystic Fibrosis (Room 312)

Chairs: Andrew J. Fisher, MRCP, PhD and Shahid Husain, MD

8:00 AM Managing Cystic Fibrosis Liver Disease in Cystic Fibrosis Lung Transplant Candidates, *Christiane Knoop, MD, Erasmus University Hospital, Brussels, Belgium*

8:30 AM Psychosocial Issues in Cystic Fibrosis: Effect on Compliance, *Diana Elizabeth Tullis, MD, FRCPC, St. Michael's Hospital, Toronto, Canada*

9:00 AM Emerging Infective Threats: Atypical Mycobacterium and Fungi, *Margaret M. Hannan, MD, Mater Hospital, Dublin, Ireland*

9:30 AM Biology of Burkholderia Cepacia, *Jane L. Burns, MD, University of Washington School of Medicine, Seattle, WA*

10:00 AM Coffee Break

10:30 AM DEBATES

Chairs: Kate Gould, FRCPath and Dennis Hadjiladis, MD

10:30 AM Debate A: Antibiotic Synergy Testing Improves Outcomes After Lung Transplantation in Cystic Fibrosis

North American Perspective: *Cecelia Chaparro, MD, Toronto General Hospital, Toronto, Canada*

European Perspective: *Juliet E. Foweraker, PhD, FRCPath, Papworth Hospital, Cambridge, United Kingdom*

11:00 AM Debate B: Burkholderia Cenocepacia is an Absolute Contraindication to Transplantation

Pro: *Duane Davis, MD, Duke University Medical Center, Durham, NC*

Con: *Redha R. Souilemas, MD, European Georges Pompidou Hospital, Paris, France*

11:30 AM Panel Discussion

8:00 AM – 10:00 AM

SATELLITE SYMPOSIUM 4: Innate Immunity and Transplant Rejection (Room 302)

Chairs: Susan D. Moffatt-Bruce, MD, PhD and Tim Lee, PhD

8:00 AM Toll-Like Receptors and Their Role in Transplantation, *Daniel R. Goldstein, MD, Yale New Haven Hospital, New Haven, CT*

8:30 AM The Varied Faces of Natural Killer Cells in Transplantation – Contributions to Both Allograft Immunity and Tolerance, *Ronald G. Gill, PhD, University of Alberta, Edmonton, Canada*

9:00 AM Coagulation Pathways: An Important Relationship to Transplant Rejection, *Simon C. Robson, MD, PhD, Harvard University, Boston, MA*

9:30 AM The Interaction of Neutrophils and mT-cells in Allograft Injury, *Robert Fairchild, PhD, Cleveland Clinic Foundation, Cleveland, OH*

8:00 AM – 10:00 AM

SATELLITE SYMPOSIUM 5: Cultural Diversity In Thoracic Transplantation (Room 311)

Chairs: Susan M. Chernenko, MN and Catherine M. Murks, RN, APN

8:00 AM Thoracic Transplantation in a Global Society: Issues and Barriers, *Roger W. Evans, PhD, Rochester, MN*

8:30 AM Making Sense of Cultural Differences: Directions for the Transplant Professional, *Christiane Kugler, PhD, MSc, RN, Hannover Medical School, Hannover, Germany*

9:00 AM Transplanting Foreign Nationals –Truth or Consequences! *Katrina A. Bramstedt, PhD, California Pacific Medical Center, San Francisco, CA*

9:30 AM Spirituality and Healthcare: Views of Health, Illness and End-of-Life, *Derek Strachan, Toronto General Hospital, Toronto, Canada*

10:00 AM Nursing and Social Science Perceptions of Transplanting Foreign Nationals: Case Studies in Multiculturalism in Transplantation

a) Preconceived Notions and Misperceptions: Dealing with the Misinformed, *Rina Murao, University of Chicago, Chicago, IL*

b) Boundaries and Ethics: Integrating the Culture When the Culture is Yours, *Rina Murao, University of Chicago, Chicago, IL*

8:00 AM – 10:00 AM

SATELLITE SYMPOSIUM 6: Strategies to Improve Donor Availability in Children (Room 310)

Chairs: Bill A. Pietra, MD and Christian Benden, MD

8:00 AM Cardiac Donation After Cardiac Death, *Mark M. Boucek, MD, Joe DiMaggio Children's Hospital, Hollywood, FL*

8:20 AM Update on Fetal Listing 2007, *Anne I. Dipchand, MD, Hospital for Sick Children, Toronto, Canada*

8:40 AM Expansion of ABO-Incompatible Donors, *Lori J. West, MD, DPhil, University of Alberta, Edmonton, Canada*

9:00 AM Strategies for Improving Lung Donation, *Stuart C. Sweet, MD, PhD, Washington University, St. Louis, MO*

9:20 AM Debate: Highly Sensitized State and Positive Cross-Match are Never a Contraindication to Pediatric Heart Transplantation

Pro: *Charles E. Canter, MD, St. Louis Children's Hospital, St. Louis, MO*

Con: *Steven A. Webber, MB ChB, Children's Hospital of Pittsburgh, Pittsburgh, PA*

10:00 AM – 10:15 AM

Coffee Break (Boylston Hallway, 3rd Floor)

10:15 AM – 12:15 PM

SATELLITE SYMPOSIUM 7: Mechanical Circulatory Support as a Permanent Solution in Advanced Heart Failure (Ballrooms A-C)

Chairs: James K. Kirklin, MD and Carmelo Milano, MD

10:15 AM Output Strategies in Long Term Mechanical Circulatory Support Training, *James W. Long, MD, PhD, Intermountain Medical Center, Murray, UT*

10:45 AM Challenges in Patient Selection, *Lynne W. Stevenson, MD, Brigham & Women's Hospital, Boston, MA*

11:15 AM Current Outcomes in Destination Therapy, *Mark S. Slaughter, MD, Advocate Christ Medical Center, Oak Lawn, IL*

11:45 AM Rotary Pumps as Destination Therapy, *Aly El-Banayosy, MD, Heart Center NRW, Bad Oeynhausen, Germany*

NOON Panel Discussion

10:15 AM – 12:15 PM

SATELLITE SYMPOSIUM 8: Antibodies and Autoimmunity (Rooms 304-306)

Chairs: Marlene Rose, PhD and Adriana Zeevi, PhD

10:15 AM B Cell Memory, *Marilia Cascalho, MD, PhD, University of Michigan, Ann Arbor, MI*

10:45 AM Role of Complement in Antibody Mediated Damage, *William M. Baldwin, III, MD, PhD, Johns Hopkins University, Baltimore, MD*

11:15 AM Endothelial Cell Response to Complement, *Jeffrey L. Platt, MD, University of Michigan, Ann Arbor, MI*

11:45 AM Autoimmunity to Collagen V in Lung Transplant Rejection, *David S. Wilkes, MD, Indiana University School of Medicine, Indianapolis, IN*

10:15 AM – 12:15 PM

SATELLITE SYMPOSIUM 9: Causes, Cures? and Controversies in Pulmonary Arterial Hypertension (Room 302)

Chairs: Steven M. Kawut, MD and Myung H. Park, MD

Supported by an unrestricted educational grant from Gilead

10:15 AM Novel Mechanisms/Pathogenesis, *Rubin M. Tuder, MD, University of Colorado, Denver, CO*

10:45 AM Novel Therapeutic Pathways, *Jean Luc Vachiery, MD, Erasme University Hospital, Brussels, Belgium*

11:15 AM End-Points of Therapy and Risk Assessment, *Raymond L. Benza, MD, University of Alabama at Birmingham, Birmingham, AL*

11:45 AM Predictors of Mortality and Outcome, *Reda Girgis, MB, BCh, Johns Hopkins University, Baltimore, MD*

10:15 AM – 12:15 PM

SATELLITE SYMPOSIUM 10: Quality of Life after Lung Transplantation (Room 311)

Chairs: Roger D. Yusen, MD, MPH, FCCP and Lianne G. Singer, MD, FRCPC

10:15 AM Survival Effects of Lung Transplantation in the United Kingdom Transplant and Eurotransplant Allocation Systems, *Linda D. Sharples, PhD, Papworth Hospital, Cambridge, United Kingdom*

10:40 AM Survival Effects of Lung Transplantation in the UNOS Organ Allocation System, *Edward R. Garrity, Jr., MD, University of Chicago Hospitals and Clinics, Chicago, IL*

11:00 AM Quality-Adjusted Survival (utility assessment) in Patients Undergoing Lung Transplantation, *Roger D. Yusen, MD, MPH, FCCP, Washington University, St. Louis, MO*

11:20 AM Using Quality of Life Measurement for Lung Allocation, *Lianne G. Singer, MD, FRCPC, Toronto General Hospital, Toronto, Canada*

11:40 AM Panel Discussion

11:50 AM Question and Answer

10:15 AM – 12:15 PM

SATELLITE SYMPOSIUM 11: Emerging Concepts in Graft Remodeling (Room 310)

Chairs: Marshall I. Hertz, MD and Rene Rodriguez, MD

10:15 AM Endothelial to Mesenchymal Transition in Cardiac Fibrosis - Implications for Allografts, *Elisabeth M. Zeisberg, MD, Harvard University, Boston, MA*

10:45 AM Inflammation, IFN-gamma and Coronary Artery Disease Before and After Transplantation, *George Tellides, MD, DPhil, Yale University School of Medicine, New Haven, CT*

11:15 AM Epithelial to Mesenchymal Transition in Renal and Liver Transplantation, *John A. Kirby, PhD, Newcastle University, Newcastle, United Kingdom*

11:45 AM Epithelial to Mesenchymal Transition in Lung Fibrosis Before and After Transplantation, *Andrew J. Fisher, MRCP, PhD, Freeman Hospital, Newcastle, United Kingdom*

NOON – 7:15 PM

Exhibit Hall Open (Exhibit Hall A)

12:30 PM – 2:00 PM

LUNCH SYMPOSIUM: The Dream of Tolerance in Heart and Lung Transplantation (Ballrooms A-C)

Supported by an unrestricted educational grant from XDX

Chairs: Thomas D. Wekerle, MD and Richard N. Pierson, III, MD

12:30 PM Visualizing Transplant Tolerance, *Terry B. Strom, MD, Harvard University Medical School, Boston, MA*

12:50 PM The Fortunate Few in Kidney Transplantation, *Minnie Sarwal, PhD, Stanford University School of Medicine, Stanford, CA*

1:10 PM Clinical Tolerance: Realizing the Dream for Heart and Lung Transplantation, *Joren C. Madsen, MD, DPhil, Massachusetts General Hospital, Boston, MA*

1:30 PM Minimizing Immunosuppression in Thoracic Transplantation Using Non-invasive Monitoring, *Daniel Bernstein, MD, Stanford University, Stanford, CA*

12:30 PM – 2:00 PM

FELLOWS LUNCHEON (pre-registration required) (Room 300)

2:15 PM - 4:15 PM

OPENING PLENARY SESSION (Ballrooms A-C)

Chairs: Paul A. Corris, MB FRCP and Lori J. West, MD, DPhil

2:15 PM Welcome, *Paul A. Corris, MP FRCP, President, ISHLT and Lori J. West, MD, DPhil, Scientific Program Chair*

2:20 PM ISHLT International Thoracic Transplant Registry Report, *Marshall I. Hertz, MD, University of Minnesota, Minneapolis, MN*

2:45 PM Invited Lecture: B-cell Biology and its Importance in Thoracic Transplantation, *Garnet Kelsoe, DSc, Duke University, Durham, NC*

3:15 PM (1) Featured Abstract: Luminex Detected Pre-Formed Donor Specific HLA Antibodies Predict Lung Allograft Failure; *J.D. Smith,¹ H. Newell,¹ A.J. Danskin,¹ M. Carby,¹ M.L. Rose,¹ ¹Transplant Immunology, Harefield Hospital, Harefield, Middx, United Kingdom*

3:30 PM (2) Featured Abstract: Virtual Crossmatch Should Be Utilized in Sensitized Patients To Improve Organ Allocation; *J. Stehlik,¹ N. Islam,¹ D. Hurst,¹ A. Fuller,¹ J.C. Delgado,¹ L. Ellinger,¹ M.A. Movsesian,¹ A. Kfoury,¹ E.M. Gilbert,¹ F. Bader,¹ P. Fisher,¹ D.G. Renlund,¹ M.E. Hammond,¹ D. Bull,¹ A. Singhal,¹ D.D. Eckels,¹ ¹U.T.A.H. Cardiac Transplant Program, Salt Lake City, UT*

3:45 PM Invited Lecture: Evolving Therapies for Humoral Rejection, *Thomas F. Tedder, PhD, Duke University, Durham, NC*

4:15 PM – 4:45 PM

Coffee Break (Exhibit Hall A)

4:45 PM - 6:15 PM

CONCURRENT SESSION 1: Matching Patient to Machine in Circulatory Support (Ballrooms A-C)

Chairs: James B. Young, MD and Robert SD Higgins, MD

4:45 PM (3) Pre-Implant Patient Triage Using Patient Status with INTERMACS Patient Profiles: Can We Refine Selection Strategy for MCS?; F.D. Pagani,¹ L. Warner Stevenson,² K.L. Ulisney,³ V. Jeevanandam,⁴ J.J. Teuteberg,⁵ M.T. Camacho,⁶ T. Martin,⁶ K. Aaronson,¹ D.C. Naftel,⁷ J.K. Kirklin,⁷ ¹University of Michigan, Ann Arbor, MI; ²Brigham and Womens Hospital, Boston, MA; ³NHLBI, Washington, DC; ⁴Cleveland Clinic, Cleveland, OH; ⁵Duke University Medical Center, Durham, NC; ⁶Ohio State University Medical Center, Columbus, OH; ⁷Texas Heart Institute, Houston, TX; ⁸University of Alabama at Birmingham, Birmingham, AL

5:00 PM (4) Patients with Mechanical Circulatory Support (MCS): Is Implant Strategy Static or Dynamic?; M. Jessup,¹ L. Warner Stevenson,² P. Desvigne-Nickens,³ J. Young,⁴ M. Acker,¹ C. Milano,⁵ S. Wissman,⁶ O.H. Frazier,⁷ D.C. Naftel,⁸ J.K. Kirklin,⁸ ¹Hospital of the University of Pennsylvania, Philadelphia, PA; ²Brigham and Women's Hospital, Boston, MA; ³NHLBI, Washington, DC; ⁴Cleveland Clinic, Cleveland, OH; ⁵Duke University Medical Center, Durham, NC; ⁶Ohio State University Medical Center, Columbus, OH; ⁷Texas Heart Institute, Houston, TX; ⁸University of Alabama at Birmingham, Birmingham, AL

5:15 PM (5) Preoperative Application of Modified Sequential Organ Failure Assessment Score (SOFA) in Prediction of Early Postoperative Mortality after Implantation Ventricular Assist Devices (VAD); N. Oedra,¹ T. Drews,¹ K. Yilmaz,¹ T. Gromann,¹ H. Kuppe,² R. Hetzer,¹ ¹The Department of Cardiothoracic and Vascular Surgery, German Heart Institute (DHZB), Berlin, Germany; ²The Department of Anesthesiology, German Heart Institute (DHZB), Berlin, Germany

5:30 PM (6) Left Ventricular Assist Devices Provide Renal Protection in Patients Awaiting Heart Transplantation; S.C. Ennis,² G.V. Moukarbel,¹ T.E. MacGillivray,² ¹Cardiology, Massachusetts General Hospital, Harvard Medical School, Boston, MA; ²Cardiac Surgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA

5:45 PM (7) A Preoperative Clinical Risk Score To Predict Mortality Post-LVAD Implantation; S. Klotz,¹ C. Riehl,¹ H. Welp,¹ J. Sindermann,¹ H.H. Scheld,¹ ¹Dept. of Thoracic and Cardiovascular Surgery, University Hospital Muenster, Muenster, Germany

6:00 PM (8) Can Continuous Flow LVADs Provide a Similar Level of Circulatory Support as Pulsatile LVADs for Large Patients?; R. John,¹ A.J. Boyle,¹ T.E. MacGillivray,² J.G. Rogers,³ L. Chen,⁴ D.J. Goldstein,⁵ W.P. Dembitsky,⁶ D.J. Farrar,⁷ F.D. Pagani,⁸ ¹Department of Surgery, University of Minnesota, Minneapolis, MN; ²Massachusetts General Hospital, Boston, MA; ³Duke University Medical Center, Durham, NC; ⁴University of Rochester, Rochester, NY; ⁵Montiflore Medical Center, Bronx, NY; ⁶Sharp Memorial Hospital, San Diego, CA; ⁷Thoratec Corporation, Pleasanton, CA; ⁸University of Michigan, Ann Arbor, MI

4:45 PM - 6:15 PM

CONCURRENT SESSION 2: Clinical Heart Transplantation: Anti-donor Antibodies (Rooms 304-306)

Chairs: Gonzalo Gonzalez-Stawinski, MD and Jayan Parameshwar, FRCP

4:45 PM (9) MICA-Antibodies Predict the Risk for Acute and Chronic Rejection after Heart Transplantation; L. Kaczmarek,¹ T. Kauke,² M. Schmoeckel,¹ A. Beiras-Fernandez,¹ P. Ueberfuhr,¹ B. Meiser,¹ B. Reichart,¹ ¹Cardiac Surgery, Grosshadern University Hospital, Munich, Germany; ²Laboratory for Immunogenetics, Grosshadern University Hospital, Munich, Germany

5:00 PM (10) Incidence and Effect of Pre-Formed Antibodies to MICA in Cardiac Transplantation; V.M. Brunner,¹ J.D. Smith,¹ S. Jigjidsuren,¹ N.R. Banner,¹ M.L. Rose,² ¹Transplant Immunology, Harefield Hospital, Harefield, Middlesex, United Kingdom; ²National Heart and Lung Institute, Imperial College, Harefield, Middlesex, United Kingdom

5:15 PM (11) C4D Fixing, Luminex Binding Antibodies – A New Tool for Prediction of Graft Failure after Heart Transplantation; J.D. Smith,¹ I.M. Hamour,² N.R. Banner,² M.L. Rose,³ ¹Transplant Immunology, Harefield Hospital, Harefield, Middlesex, United Kingdom; ²Transplant Cardiology, Harefield Hospital, Harefield, Middlesex, United Kingdom; ³National Heart and Lung Institute, Imperial College, Harefield, United Kingdom

5:30 PM (12) Successfully Treated Pre-Transplant Sensitized Patients Have Favorable Post-Transplant Outcomes; J.A. Kobashigawa,¹ E. Reed,³ E. Sue,¹ J.K. Patel,¹ M.M. Kittleson,¹ M.A. Kawano,¹ K.K. Kiyosaki,¹ A. Ardehali,² ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA; ³Pathology, David Geffen School of Medicine at UCLA, Los Angeles, CA

5:45 PM (13) Does the Presence of Recipient Antibodies to HLA Antigens or Positive Pre-Transplant Virtual Crossmatch Predict Rejection after Cardiac Transplant?; K. Krishan,¹ M.J. Gandhi,¹ B. Moore,¹ S.R. DeGoeij,¹ B.S. Edwards,¹ N.L. Pereira,¹ A.L. Clavell,¹ S.J. Park,¹ N.A. Ploeger,¹ D.V. Miller,¹ C.G.A. McGregor,¹ R.C. Daly,¹ ¹William J. von Liebig Transplant Center, Mayo Clinic, Rochester, MN

6:00 PM (14) Human Leukocyte Antigen (HLA) Matching and Blood Group Identity/Compatibility and Heart Transplant Survival across Twenty Years: What Matters Early, What Matters Late?; B. Pavlovic-Surjanec,¹ P. Ezidinma,¹ N. Patel,¹ J. Sinacore,¹ A. Janabi,¹ B. Suskind,¹ N. Neuswanger,¹ L. Dusek,¹ A. Heroux,¹ Heart Failure/Heart Transplant Program, Loyola University Medical Center, Maywood, IL

4:45 PM - 6:15 PM

CONCURRENT SESSION 3: Does Rapamycin Have a Future? (Room 312)

Chairs: Eric Steidly, MD and Anne M. Keogh, MBBS, MD

4:45 PM (15) Results of a 12-Month, Multicenter, Randomized Trial of Everolimus with Reduced-Exposure Cyclosporine Versus MMF and Standard-Exposure Cyclosporine in *De Novo* Cardiac Transplant Recipients; H. Lehmkuhl,¹ U. Livi,² J. Arizon,³ M. Viganò,⁴ C. Magelli,⁵ P. Boissonnat,⁶ G. Gerosa,⁷ F. Musumeci,⁸ I. Gandjbakhch,⁹ J. Vanhaecke,¹⁰ J.M. Hexham,¹¹ K.C. Mange,¹¹ Deutsches Herzzentrum Berlin, Berlin, Germany; ²Az. Osp. S. Maria della Misericordia, Udine, Italy; ³Hospital Universitario Reina Sofia, Córdoba, Spain; ⁴Policlinico S. Matteo -IRCCS Università degli Studi di Pavia, Pavia, Italy; ⁵Az. Osp. di Bologna Policl. S. Orsola - Malpighi, Bologna, Italy; ⁶Hopital Cardiologique de Lyon, Lyon, France; ⁷Azienda Ospedaliera di Padova - Università degli Studi, Padova, Italy; ⁸Ospedale S. Camillo-Forlanini-Azienda Ospedaliera Circonvallazione, Rome, Italy; ⁹Service Chirurgie Thoracique, Cardiovascular, Hopital Pitié Salpêtrière, Paris, France; ¹⁰UZ Gasthuisberg, Leuven, Belgium; ¹¹Novartis Pharmaceuticals Corporation, East Hanover, NJ

5:00 PM (16) Concentration-Controlled Everolimus Versus MMF in *De Novo* Heart Transplant Patients: Incidence of CMV Infection at 12 Months Post-Transplant in a Randomized Trial; T. Dengler,¹ M. Viganò,² C. Magelli,³ R. Guillemain,⁴ S. Varnous,⁵ G. Gerosa,⁶ A. Poncelet,⁷ J. Vanhaecke,⁸ Y. Li,⁹ Y. Gezahegen,⁹ University of Heidelberg, Heidelberg, Germany; ²Policlinico S. Matteo -IRCCS Università degli Studi di Pavia, Pavia, Italy; ³Az. Osp. di Bologna Policl. S. Orsola - Malpighi, Bologna, Italy; ⁴Européen Georges Pompidou, Paris, France; ⁵Hopital Pitié Salpêtrière, Paris, France; ⁶Azienda Ospedaliera di Padova - Università degli Studi, Padova, Italy; ⁷Cliniques Universitaires Saint Luc, Brussels, Belgium; ⁸UZ Gasthuisberg, Leuven, Belgium; ⁹Novartis Pharma AG, Basel, Switzerland

5:15 PM (17) De Novo Concentration-Controlled Everolimus Is Associated with a Decreased Incidence of CMV Infection in Cardiac Transplant Recipients; C. Bara,¹ S.-S. Wang,² A. Zuckermann,³ H. Ross,⁴ M. Frigerio,⁵ H.J. Eisen,⁶ G. Laufer,⁷ M. Cotrufo,⁸ A.M. Keogh,⁹ Thorax-, Herz- und Gefäßchirurgie, Medizinische Hochschule Hannover, Hannover, Germany; ²Division of Cardiovascular Surgery, University of Taiwan, Taipei, Taiwan; ³Universitaet Wien Allgemeines Krankenhaus Universitaetklinikern, Vienna, Austria; ⁴Department of Cardiology, Toronto General Hospital, Toronto, Canada; ⁵Divisione di Cardiologia Padiglione A. De Gasperis, Az. Osp. Niguarda Ca' Granda, Milan, Italy; ⁶Division of Cardiology, Drexel University College of Medicine, Philadelphia; ⁷Department of Cardiac Surgery, Innsbruck Medical University, Innsbruck, Austria; ⁸Dipartimento di Scienze Cardio-Toraciche e Respiratorie Sezione di Cardiologia Pediatrica, Azienda Ospedaliera Monaldi Cotugno Il Università di Napoli, Naples, Italy; ⁹Heart Lung Transplant Unit, St Vincent's Hospital, Darlinghurst, Australia

5:30 PM (18) Sirolimus as Primary Immunosuppressant Attenuates Left Ventricular Hypertrophy and Improves Diastolic Function in Cardiac Transplant Recipients; E. Raichlin,¹ K. Chandrasekaran,¹ K.K. Walter,¹ A.L. Clavell,¹ R.J. Rodheffer,¹ N.L. Pereira,¹ R.P. Frantz,¹ J.A. Wagner,¹ C.C. McGregor,¹ R.C. Daly,¹ B.S. Edwards,¹ S.S. Kushwaha,¹ William J. Von Liebig Transplant Center, Mayo Clinic, Rochester, MN

5:45 PM (19) Impact of ACE-Inhibitor and Angiotensin Receptor Blocker Therapy on Development of Proteinuria after Switch to Sirolimus in Cardiac Transplant Recipients; A.Z. Aliabadi,¹ E. Pohanka,² D. Dunkler,¹ M.E. Paireder,¹ S.L. Mahr,¹ M. Grömmner,¹ G. Seebacher,¹ D. Zimpfer,¹ S. Roedler,¹ E. Wolner,¹ M. Grimm,¹ A.O. Zuckermann,¹ Department of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Department of Nephrology, Medical University of Vienna, Vienna, Austria

6:00 PM (20) Effects of Everolimus on the Development of Microvasculopathy after Heart Transplantation; N.E. Hiemann,¹ H.B. Lehmkuhl,¹ E. Wellnhofer,² C. Knosalla,¹ R. Hetzer,¹ R. Meyer,¹ Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Deutsches Herzzentrum Berlin, Berlin, Germany

4:45 PM - 6:15 PM

CONCURRENT SESSION 4: Predicting Outcomes After Clinical Lung Transplantation (Room 302)

Chairs: Jonathan B. Orens, MD and Antonio B. Roman, PhD

4:45 PM (21) Clinical Risk Factors for the Development of Primary Graft Dysfunction; J.C. Lee,¹ C. Kuntz,¹ S.M. Kawut,² D. Hadjiladis,¹ V.N. Ahya,¹ K.M. Wille,³ V.N. Lama,⁴ A. Milstone,⁵ L.B. Ware,⁵ J. Orens,⁶ A. Shah,⁷ A. Weinacker,⁸ E. Demissie,¹ J.D. Christie,¹ Pulmonary, Allergy, and Critical Care, University of Pennsylvania, Philadelphia, PA; ²Pulmonary, Allergy, and Critical Care, Columbia University, New York, NY; ³Pulmonary, Allergy, and Critical Care, University of Alabama at Birmingham, Birmingham, AL; ⁴Internal Medicine, Pulmonary Division,

University of Michigan, Ann Arbor, MI; ⁵Pulmonary Division, Vanderbilt University Medical Center, Nashville, TN; ⁶Pulmonary and Critical Care, Johns Hopkins Hospital, Baltimore, MD; ⁷Cardiac Surgery, Johns Hopkins Hospital, Baltimore, MD; ⁸Pulmonary and Critical Care Medicine, Stanford University Medical Center, Palo Alto, CA

5:00 PM (22) Risk Factors for Death Due to Primary Graft Dysfunction in Adult Lung Transplantation; J.S. Ganesh,¹ C.A. Rogers,¹ N.R. Banner,¹ R.S. Bonser,¹ ¹On Behalf of the Steering Group, UK Cardiothoracic Transplant Audit, Clinical Effectiveness Unit, The Royal College of Surgeons of England, London, United Kingdom

5:15 PM (23) Dynamic Hyperinflation: A New Entity after Unilateral Lung Transplantation for Emphysema; E.A.M. Verschuuren,¹ R.G. Grevink,¹ D.-J. Slebos,¹ M.E. Erasmus,² T.J. Klinkenberg,² W. van der Bij,¹ ¹Pulmonary Diseases, UMCG, Groningen, Netherlands; ²Cardiothoracic Surgery, UMCG, Groningen, Netherlands

5:30 PM (24) Cytomegaloviral and Rhinoviral Co-Infection Is a Distinct Risk for Acute Rejection in Lung Transplantation; E. Calabrese,¹ F. Lunardi,¹ C. Giacometti,¹ G. Marulli,² M. Loy,² C. Schiraldi,² M. Valente,¹ F. Rea,² ¹Medical Diagnostic Sciences and Special Therapies, University of Padua, Padua, Italy; ²Cardiothoracic Sciences, University of Padua, Padua, Italy

5:45 PM (25) The Modification of Diet in Renal Disease (MDRD) Formula Predicts Kidney Failure after Lung Transplantation; N. Al-Naamani,¹ O.H. Maarouf,¹ J.S. Wilt,¹ F. D'Ovidio,² J.R. Sonett,² S.M. Arcasoy,¹ T.L. Nickolas,³ D.J. Lederer,¹ S.M. Kawut,¹ ¹Medicine, Division of Pulmonary Allergy and Critical Care, Columbia University, College of Physicians and Surgeons, New York, NY; ²Surgery, Division of Cardiothoracic Surgery, Columbia University, College of Physicians and Surgeons, New York, NY; ³Medicine, Division of Nephrology, Columbia University, College of Physicians and Surgeons, New York, NY

6:00 PM (26) Effect of Non-Adherence to Home Spirometry on Graft Survival and Bronchiolitis Obliterans Syndrome (BOS) after Lung Transplantation; J. Gottlieb,¹ C. Kugler,² T. Fuehner,¹ A.R. Simon,² T. Welte,¹ ¹Respiratory Medicine, Hannover Thoracic Transplant Program, Hannover, Germany; ²Cardiothoracic Transplantation and Vascular Surgery, Hannover Thoracic Transplant Program, Hannover, Germany

4:45 PM - 6:15 PM

CONCURRENT SESSION 5: Immunobiology of Lung Transplant and Rejection (Room 311)

Chairs: Thalachallour Mohanakumar, PhD and Andrew E. Gelman, MD, PhD

4:45 PM (27) Tumour Necrosis Factor- α Accentuates Transforming Growth Factor- β Driven Epithelial to Mesenchymal Transition (EMT) in Airway Epithelial Cells from Lung Transplant Recipients; L.A. Borthwick,¹ S.M. Parker,¹ K.A. Brougham,¹ M.R. Gorowiec,¹ C. Ward,¹ J.L. Lordan,¹ J.A. Kirby,¹ P.A. Corris,¹ A.J. Fisher,¹ ¹Applied Immunobiology and Transplantation Research Group, Institute of Cellular Medicine, Newcastle University, Newcastle-upon-Tyne, Tyne and Wear, United Kingdom

5:00 PM (28) Maintenance of Canonical I-KB Kinase Activity Is Required To Prevent Lung Graft Injury; H.J. Huang,¹ S. Sugimoto,² J. Lai,² N.A. Das,² M. Okazaki,² G.A. Patterson,² D. Kreisel,² A.E. Gelman,² ¹Department of Internal Medicine, Washington University School of Medicine, Saint Louis, MO; ²Department of Surgery, Washington University School of Medicine, Saint Louis, MO

5:15 PM (29) Role of Vascular Endothelial Growth Factor-C in Experimental Obliterative Airway Disease; R. Krebs,¹ J.M. Tikkanen,¹ A.I. Nykänen,¹ K. Alitalo,² S. Ylä-Herttuala,³ P.K. Koskinen,¹ K.B. Lemström,¹ ¹Transplantation Laboratory, University of Helsinki, Helsinki, Finland; ²Molecular Cancer Biology Laboratory, University of Helsinki, Helsinki, Finland; ³A.I. Virtanen Institute for Molecular Sciences, University of Kuopio, Kuopio, Finland

5:30 PM (30) CCR2 Is Required for Monocyte Recruitment and Differentiation but Not Acute Rejection of Vascularized Mouse Lung Allografts; M. Okazaki,¹ S. Sugimoto,¹ J. Lai,¹ C.G. Kornfeld,¹ J.R. Tietjens,¹ S.B. Richardson,¹ H.J. Huang,¹ A. Patterson,¹ A.S. Krupnick,¹ A.E. Gelman,¹ D. Kreisel,¹ ¹Surgery, Washington University in St. Louis, St. Louis, MO

5:45 PM (31) Gastric Aspiration Leads to the Development of an Immune Response to Collagen V and Donor-Derived Class I Peptides Following Lung Transplantation in Miniature Swine; A.J. Meltzer,¹ M.J. Weiss,¹ H. Sahara,¹ M.E. Cochrane,¹ J.K. Sayre,¹ S.L. Houser,¹ J.C. Madsen,¹ D.H. Sachs,¹ B.R. Rosengard,¹ J.C. Wain,¹ J.S. Allan,¹ ¹Transplantation Biology Research Center, Massachusetts General Hospital, Boston, MA

6:00 PM (32) Nitrite Protects Rat Lung Grafts from Ischemia/Reperfusion Injury Via Xanthine Oxidoreductase (XOR); R. Sugimoto,¹ A. Nakao,¹ J. Kohmoto,¹ Y. Wang,¹ M.T. Gladwin,² T.R. Billiar,³ K.R. McCurry,¹ ¹Department of Surgery, Heart, Lung and Esophageal Surgery Institute, Thomas E. Starzl Transplantation Institute, University of Pittsburgh, Pittsburgh, PA; ²Vascular Medicine Branch and Critical Care Medicine Department, NIH, Bethesda, MD; ³Department of Surgery, University of Pittsburgh, Pittsburgh, PA

6:15 PM - 7:15 PM

GENERAL POSTER SESSION I (Exhibit Hall A)

WINE AND CHEESE EXHIBIT RECEPTION (Exhibit Hall A)

- (33) Fever in Recipients Waiting for an Urgent Heart Transplantation. Should Be Heart Transplantation Contraindicated?; M.J. Garcia Monge,¹ M.G. Crespo-Leiro,¹ M.J. Paniagua,¹ L. Boutureira,¹ M. Mourello,¹ M. El Diasty,¹ J.M. Lopez,¹ S. Fojon,¹ S. Pertega,¹ J. Muniz,¹ J.A. Rodriguez,¹ C. Naya,¹ A. Castro,¹ ¹Heart Transplantation Unit, Juan Canalejo Hospital, La Coruna, Spain
- (34) Infections in Heart Transplant Recipients: Focus on Chagas' Heart Disease; H.L. Godoy,¹ C.M. Guerra,² A.C. Carvalho,¹ D.R. Almeida,¹ ¹Medicine Department - Cardiology Division, Federal University of Sao Paulo, Sao Paulo, SP, Brazil; ²Medicine Department - Infectious Disease Division, Federal University of Sao Paulo, Sao Paulo, SP, Brazil
- (35) Low Dose Valganciclovir for CMV Prophylaxis after Lung Transplantation; H.S. Khurana,¹ G. Chaux,¹ A. Kole,¹ J. Falk,¹ S. Simsir,² W. Cheng,² R.M. Kass,² J. Khurana, G. Soohoo,³ ¹Pulmonary and Critical Care, Cedars Sinai Medical Center, Los Angeles, CA; ²Cardio-Thoracic Surgery, Cedars Sinai Medical Center, Los Angeles, CA; ³Pulmonary and Critical Care, West Los Angeles VA Healthcare Center, Los Angeles, CA
- (36) Epstein-Barr Virus Reactivation Is Associated with Mild Clinical Symptoms during the Posttransplant Period of Lung Transplant Recipients; I. Engelmann,¹ J. Gottlieb,² N. Hesse,¹ C. Fegbeutel,³ M. Strueber,³ T.F. Schulz,¹ T. Welte,² A. Haverich,³ A.R. Simon,³ F. Mattner,⁴ ¹Virology, Hannover Medical School, Hannover, Germany; ²Respiratory Medicine, Hannover Medical School, Hannover, Germany; ³Thoracic Surgery, Hannover Medical School, Hannover, Germany; ⁴Hospital Epidemiology and Infection Control, Universitaet zu Luebeck, Luebeck, Germany
- (37) Incidence of Upper and Lower Airway Viral Infections in a Cohort of Lung Transplant Recipients (LTRs); F. Bini,¹ C. Lastoria,¹ A. Cascina,¹ D. Lilleri,² T. Oggioni,¹ F. Meloni,¹ ¹Dpt. Respiratory Diseases, University of Pavia-Policlinico S. Matteo, Pavia, Italy; ²Virology, University of Pavia-Policlinico S. Matteo, Pavia, Italy
- (38) Comparison of Voriconazole Versus a Combination of Voriconazole and Caspofungin as Primary Therapy for Suspected Invasive Aspergillosis in Lung Transplant Recipients; C. Fegbeutel,¹ F. Mattner,² H. Weissbrodt,⁴ J. Gottlieb,³ M. Strueber,¹ T. Welte,³ A. Haverich,¹ A. Simon,¹ ¹Department of Thoracic Surgery, Medical School Hannover, Hannover, Germany; ²Hospital Epidemiology and Infection Control, Universität zu Lübeck, Lübeck, Germany; ³Department of Pulmonary Medicine, Medical School Hannover, Hannover, Germany; ⁴Medical Microbiology, Medical School Hannover, Hannover, Germany
- (39) Use of a Murine Transcutaneous Ventricular Assist Device Driveline Model To Characterize S. epidermidis SDRF Binding; M. von Bayern,¹ C. Arrecubieta,³ I. Matsunaga,² S. Oz,¹ M. Cadieras,¹ Y. Naka,² M. Deng,¹ F. Lowy,^{3,4} T. Asahi,² ¹Medicin, Columbia University, New York, NY; ²Surgery, Columbia University, New York, NY; ³Division of Infectious Diseases, Columbia University, New York, NY; ⁴Pathology, Columbia University, New York, NY
- (40) In Vitro Activity of Taurolin Against Filamentous Fungi Isolated from Lung Transplant Patients; G. Short,¹ A. Nicholson,¹ S. Peart,¹ C. Rennison,¹ J.D. Perry,¹ K.F. Gould,¹ ¹Microbiology Department, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom
- (41) Outcomes Following Staphylococcus aureus Respiratory Infections in Lung Transplant Recipients Treated with Oral Linezolid Versus Intravenous Vancomycin; M.M. Crespo,¹ S. Husain,² J.M. Pilewski,¹ J. Kim,¹ K.R. McCurry,³ B.A. Johnson,¹ S.M. Studer,¹ ¹Pulmonary, Allergy and Critical Care, University of Pittsburgh Medical Center, Pittsburgh, PA; ²Infectious Disease, University of Pittsburgh Medical Center, Pittsburgh, PA; ³Cardiothoracic Department, University of Pittsburgh Medical Center, Pittsburgh, PA
- (42) Lactobacillus Acidophilus May Help To Decrease Recurrences and Ameliorate Severity of C. difficile-Associated Diarrhea in Lung Transplant Recipients; R.K. Avery,¹ A. Mehta,² S.K. Schmitt,¹ S.B. Mossad,¹ A.J. Taeye,¹ R. Corey,³ S. Murthy,⁴ G. Petersson,⁴ M. Budev,² ¹Infectious Disease, Cleveland Clinic, Cleveland, OH; ²Pulmonary and Critical Care Medicine, Cleveland Clinic, Cleveland, OH; ³Pharmacy, Cleveland Clinic, Cleveland, OH; ⁴Thoracic Surgery, Cleveland Clinic, Cleveland, OH
- (43) Renal Improvement after Overnight Conversion to Calcineurin-Free Immunosuppression within the First Year after Heart Transplantation: Preliminary Data after Maintenance Therapy with Everolimus; E. Gude,¹ L. Gullestad,¹ A.E. Fiane,² I. Grov,¹ S. Arora,¹ O.R. Geiran,² A.K. Andreassen,¹ ¹Dept of Cardiology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ²Dept of Thoracic and Cardiovascular Surgery, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway

- (44) mTOR Inhibitors (mTOR-I) and Proteinuria after Lung Transplantation; P. Ussetti,¹ M.C. Carreno,² C. Garcia-Gallo,¹ R. Laporta,¹ G. Mora,¹ C. Garcia-Fadul,¹ B. Sanchez,³ M.J. Ferreiro,¹ A. Varela,⁴ ¹Pneumology, Clinica Puerta de Hierro, Madrid, Spain
- (45) Combination of Everolimus with Low-Dose Calcineurin-Inhibitors in Lung Transplant Recipients with Chronic Renal Insufficiency; M.A.R. Hoda,¹ P. Jaksch,¹ B. Zweytick,¹ S. Taghavi,¹ G. Lang,¹ C. Aigner,¹ M. Gaugg,¹ M. Klepinger,¹ W. Klepetko,¹ ¹Department of Cardio-Thoracic Surgery, Medical University Vienna, Vienna, Austria
- (46) Interventricular Dyssynchrony in Pulmonary Arterial Hypertension: Evidence for Early Right Ventricular and Septal Mechanical Activation; D.J. Schwartz,¹ M.R. Mehra,¹ M.H. Park,¹ W.J. Kop,¹ M.R. Vesely,¹ S.Y. Li,¹ J.S. Gottdiener,¹ ¹Cardiology, University of Maryland, Baltimore, MD
- (47) Clinical Impact and Prognosis of Supraventricular Tachycardias in Pulmonary Arterial Hypertension; M.J. Ruiz-Cano, P. Escribano, F. Arribas, J. Delgado, A. Flox, V. Suberviola, C. Saenz de la Calzada ¹Pulmonary Hypertension Unit, Cardiology Department, Hospital Universitario 12 de Octubre, Madrid, Spain
- (48) Lung Transplantation in Lymphangiomyomatosis (LAM) ¿Which Is the Best Surgical Procedure?; G. Mora,¹ P. Ussetti,¹ C. Garcia-Fadul,¹ C. Garcia-Gallo,¹ R. Laporta,¹ M.C. Carreno,² A. De Pablo,¹ M.J. Ferreiro,¹ A. Varela,³ ¹Pneumology, Hospital Puerta de Hierro, Madrid, Spain; ²Internal Medicine, Hospital Puerta de Hierro, Madrid, Spain ; ³Cardiothoracic Surgery, Hospital Puerta de Hierro, Madrid, Spain
- (49) 97 Days Novalung ILA Membrane Ventilation for Type II Respiratory Failure as Bridge for Lung Transplantation; W.R. Bartosik,¹ A.W. Soo,¹ L. Nolke,¹ J.F. McCarthy,¹ A.E. Wood,¹ J.J. Egan,¹ ¹Lung Transplant Programme, Mater Misericordiae University Hospital, Dublin, Ireland
- (50) Lung Function after Single Lung Transplantation (SLTx): Emphysema Versus Pulmonary Fibrosis; C.H. Wigfield,¹ M.A. Chaudhry,¹ T. Small,² G. Parry,¹ J.H. Dark,^{1,2} P.A. Corris,^{1,2} A.J. Fisher,^{1,2} ¹Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, England, United Kingdom; ²Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, England, United Kingdom
- (51) Effects of Native Lung Physiology (Obstructive vs. Restrictive) on Graft Volume after Single-Lung Transplantation (SLT); M. Estenne,¹ D. Kienzl,² C. Knoop,¹ B. Rondelet,¹ M. Dumonceaux,¹ P. Jaksch,³ W. Klepetko,³ A. Bankier,⁴ ¹Lung Transplantation Unit and Dpt of Thoracic Surgery, Erasme Hospital, Brussels, Belgium; ²Radiology, Medical University of Vienna, Vienna, Austria; ³Lung Transplantation Unit and Dpt of Surgery, Medical University of Vienna, Vienna, Austria; ⁴Radiology, Beth Israel Deaconess Medical Center, Boston, MA
- (52) Techniques for Bronchial Anastomosis in Lung Transplantation; M. Kamler,¹ K. Tsagakis,¹ K. Pilarczyk,¹ N. Pizanis,¹ U. Herold,¹ H. Jakob,¹ ¹Department of Thoracic and Cardiovascular Surgery, West German Heart Center Essen, University Hospital Essen, Essen, Germany
- (53) Changes in Adult Lung Transplantation: A UK Survey; J. Thekkudan,¹ C. Rogers,¹ H.L. Thomas,² N.R. Banner,¹ R.S. Bonser,¹ ¹On Behalf of the Steering Group, UK Cardiothoracic Transplant Audit, Clinical Effectiveness Unit, The Royal College of Surgeons of England, London, United Kingdom; ²UK Transplant, Bristol, United Kingdom
- (54) The Effect of CMV-Immune Globulin on Outcomes in CMV-Mismatched Lung Transplant Recipients; R.F. Tavares de Melo,¹ T.S. Lukose,¹ S. Bae,¹ C.J. Kubin,¹ D.J. Lederer,¹ S.M. Arcasoy,¹ J.S. Wilt,¹ J.R. Sonett,¹ F. D'Ovidio,¹ S.M. Kawut,¹ ¹Columbia University Lung Transplant Program, NewYork-Presbyterian Hospital, New York, NY
- (55) Cotinine Levels in Serum and Urine and %HbCO as Exclusion Criteria in Lung Transplantation; E.A. Kastelijin,¹ P. Zanen,¹ H. Ruven,² M.-J. Cramer,³ J.-W. Lammers,¹ E. van de Graaf,¹ ¹Department of Respiratory Medicine, University Medical Centre Utrecht, Utrecht, Netherlands; ²Department of Clinical Chemistry, St. Antonius Hospital, Nieuwegein, Netherlands; ³Department of Cardiology, University Medical Centre Utrecht, Utrecht, Netherlands
- (56) Clinical Indicators for Steroid Response in Biopsy Proven Acute Allograft Rejection in Lung Transplant Recipients; T. Fuehner,¹ M. Berkefeld,¹ C. DeWall,¹ A. Simon,² M.W. Pletz,¹ T. Welte,¹ J. Gottlieb,¹ ¹Department of Respiratory Medicine, Medical School Hannover, Hannover, Germany; ²Department of Thoracic and Cardiovascular Surgery, Medical School Hannover, Hannover, Germany
- (57) Validation of the Modification of Diet in Renal Disease (MDRD) Formula in Estimating GFR in Lung Transplant Candidates; N. Al-Naamani,¹ O.H. Maarouf,¹ V.N. Ahya,² D.J. Lederer,¹ J.D. Mendez,² J.S. Wilt,¹ D. Rybak,¹ M. Tufariello,¹ F. D'Ovidio,⁴ J.R. Sonett,⁴ S. Arcasoy,¹ T.L. Nickolas,³ S.M. Kawut,¹ ¹Medicine, Division of Pulmonary,

Allergy, and Critical Care, Columbia University, College of Physicians and Surgeons, New York, NY; ²Medicine, Division of Pulmonary, University of Pennsylvania Medical Center, Philadelphia, PA; ³Medicine, Division of Nephrology, Columbia University, College of Physicians and Surgeons, New York, NY; ⁴Surgery, Division of Cardiothoracic Surgery, Columbia University, College of Physicians and Surgeons, New York, NY

(58) Modified 'Low-Flow' Ultrafiltration Ameliorates Hemodynamics and Early Graft Function and Reduces Blood Loss in Living-Donor Lobar Lung Transplantation; Y. Kotani,¹ O. Honjo,¹ K. Goto,³ S. Sano,¹ H. Date,²
¹Cardiovascular Surgery, Okayama University, Okayama, Japan; ²Cancer and Thoracic Surgery, Okayama University, Okayama, Japan; ³Anesthesiology and Resuscitology, Okayama University, Okayama, Japan

(59) The Impact of Lung Transplantation on Cardiac Dysfunction in Patients with Cystic Fibrosis; E.F. Nash,¹ A.S. Coonar,¹ D.H. Delgado,² L.G. Singer,¹ S. Keshavjee,¹ C. Chaparro,¹ ¹Toronto Lung Transplant Program, University Health Network, University of Toronto, Toronto, ON, Canada; ²Division of Cardiology, Heart Transplant Program, Toronto General Hospital, Toronto, ON, Canada

(60) The Impact of Sildenafil Use in Acute Reduction of Pulmonary Hypertension in Advanced Heart Failure Patients; A.F. Freitas, Jr.,¹ F. Bacal,¹ R. Honorato,¹ J.L. Oliveira, Jr.,¹ C.P. Silva,¹ L.F.P. Moreira,¹ A.I. Fiorelli,¹ S. Mangini,¹ N.A.G. Stolf,¹ E.A. Bocchi,¹ ¹Heart Failure and Heart Transplantation Department, Heart Institute (InCor), University of Sao Paulo Medical School, Sao Paulo, SP, Brazil

(61) Post Operative Arrhythmias in Lung Transplantation; M.D. Bachetta,² A. Biviano,¹ F.A. Ehlert,¹ H. Garen,¹ J. Dizon,¹ W. Whang,¹ J. Cormilas,¹ K. Hickey,¹ J. Wilt,¹ F. D'Ovidio,² S. Arcasoy,¹ J.R. Sonett,² ¹Medicine, Columbia University, New-York Presbyterian Hospital, New York; ²Surgery, Columbia University, New-York Presbyterian Hospital, New York

(62) Outcomes Following Lung Transplantation for Pulmonary Hypertension Secondary to Hereditary Hemorrhagic Telangiectasia; J. Kim,¹ S.M. Studer,¹ M.M. Crespo,¹ J. Pilewski,¹ Y. Toyoda,¹ B.A. Johnson,¹ T. Oggioni,³ P. Vitulo,² ¹Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA; ²Pneumology Department, IsMett-UPMC, Palermo, Sicily, Italy; ³Department of Respiratory Diseases, IRCCS, San Matteo, Pavia, Italy

(63) The Influence of HLA-DR Mismatching on Long-Term Outcome of Lung Transplantation Is Masked by a New Immunosuppressive Protocol; W. van der Bij,¹ E.A.M. Verschuuren,¹ M.E. Erasmus,² S.P.M. Lems,³ B.G. Hepkema,³ ¹Dept. of Pulmonary Diseases, University Medical Center Groningen, Groningen, Netherlands; ²Dept. of Cardiothoracic Surgery, University Medical Center Groningen, Groningen, Netherlands; ³Dept. of Transplantation Immunology, University Medical Center Groningen, Groningen, Netherlands

(64) High Resolution Computed Tomography Findings in Candidates to Lung Transplantation with Previous Thoracic Invasive Procedures: Relationship with Perioperative Events; D. Pérez-Enguix, P. Morales, R. Vicente, M. Lloret ¹Radiology, La Fe Hospital, Valencia, Spain; ²Lung Transplantation Unit, La Fe Hospital, Valencia, Spain; ³Anesthesiology, La Fe Hospital, Valencia, Spain; ⁴Radiology, La Fe Hospital, Valencia, Spain

(65) Influence of Ischemic Time on Survival and Chronic Rejection in Lung Transplantation; C. Kuehn,¹ J. Gottlieb, B. Gohrbandt,¹ A. Goerler,¹ A. Meyer,¹ F. Stefan,¹ C. Hagl,¹ M. Strueber,¹ A. Haverich,¹ A.R. Simon,¹ ¹Hannover Thoracic Organ Transplant Program, Division of Cardiothoracic, Transplantation and Vascular Surgery, Hannover Medical School, Hannover, Germany; ²Division of Pneumology, Hannover Medical School, Hannover, Germany

(66) Lung Transplantation in Patients on Invasive Ventilation and Extracorporeal Membrane Oxygenation; A.L. Meyer,¹ H. Goerler,¹ J. Gottlieb,¹ M. Avsar,¹ S. Fischer,¹ C. Hagl,¹ C. Kuehn,¹ M. Strueber,¹ A. Haverich,¹ A.R. Simon,¹ ¹Hannover Thoracic Transplant Program, Hannover Medical School, Hannover, Germany

(67) Basiliximab Induction in Lung Transplantation: A Single Center Description of Survival, Acute Rejection and Infection; L.J. Stuckey,¹ M.K. Han,² R. Florn,² C. Walls,² K.R. Flaherty,² V.N. Lama,² S. Gay,² T. Ojo,² F.J. Martinez,² A. Pickens,³ A.C. Chang,³ K.M. Chan,² ¹College of Pharmacy, University of Michigan Health Systems, Ann Arbor, MI; ²Division of Pulmonary and Critical Care Medicine, University of Michigan Health Systems, Ann Arbor, MI; ³Section of Thoracic Surgery, University of Michigan Health Systems, Ann Arbor, MI

(68) Secondary Pulmonary Hypertension Is a Risk Factor for Primary Graft Dysfunction Following Lung Transplantation for Idiopathic Pulmonary Fibrosis; A. Fang,¹ S. Studer,¹ V.N. Aha,² D. Hadjiliadis,² K. Wille,³ V. Lama,⁴ A. Milstone,⁵ L. Ware,⁵ J. Orens,⁶ A. Weinacker,⁷ E. Demissie,² S.M. Kawut,⁸ J.D. Christie,² ¹Pulmonary and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA; ²Pulmonary and Critical Care Medicine, University of Pennsylvania, Philadelphia, PA; ³Pulmonary and Critical Care Medicine, University of Alabama Birmingham, Birmingham, AL; ⁴Pulmonary and Critical Care Medicine, University of Michigan, Ann Arbor, MI; ⁵Pulmonary and Critical Care Medicine, Vanderbilt University, Nashville, TN; ⁶Pulmonary and Critical Care Medicine, Johns Hopkins University, Baltimore, MD; ⁷Pulmonary and Critical Care Medicine, Stanford University, Palo Alto, CA; ⁸Pulmonary and Critical Care Medicine, Columbia University, New York, NY

- (69) Titanium Plating To Prevent Sternal Malunion in Lung Transplantation; K.L. Gandy,¹ *Department of Cardiothoracic Surgery, University Medical Center, Tucson, AZ*
- (70) Nonadherence to the Medical Regimen during the First Two Years after Lung Transplantation; M.A. Dew,¹ A.F. DiMartini,² A. De Vito Dabbs,³ R. Zomak,⁴ S. De Geest,⁵ F. Dobbels,⁶ Y. Toyoda,⁷ C. Bermudez,⁷ R.L. Kormos,⁷ K.R. McCurry,⁷ *Psychiatry, Psychology and Epidemiology, University of Pittsburgh School of Medicine and Medical Center, Pittsburgh, PA; ²Psychiatry and Surgery, University of Pittsburgh School of Medicine and Medical Center, Pittsburgh, PA; ³Acute and Tertiary Care Nursing, University of Pittsburgh School of Nursing, Pittsburgh, PA; ⁴Cardiothoracic Transplantation Program, University of Pittsburgh Medical Center, Pittsburgh, PA; ⁵Institute of Nursing Science, University of Basel, Basel, Switzerland; ⁶Leuven Heart Transplant Program, University Hospital Leuven, Katholieke Universiteit, Leuven, Belgium; ⁷Surgery, University of Pittsburgh School of Medicine and Medical Center, Pittsburgh, PA*
- (71) Restrictive Allograft Physiology after Heart Transplantation: Prevalence and Associated Factors; I.P. Garrido,¹ D.A. Pascual,¹ P. Penafiel Verdu,¹ F. Nicolas,² M. Valdes Chavarri,¹ *Cardiology Department, H Universitario Virgen de la Arrixaca, Murcia, Spain; ²Nuclear Medicine Department, H Universitario Virgen de la Arrixaca, Murcia, Spain*
- (72) Sinus Rhythm after Heart Transplantation Denotes Favorable Course; R. Baretti,¹ B. Debus,¹ D. Kemper,¹ C. Knosalla,¹ H. Lehmkuhl,¹ R. Hetzer,¹ *Deutsches Herzzentrum Berlin, Berlin, Germany*
- (73) Serum Cystatin-C and beta 2-Microglobulin as Markers of Renal Dysfunction in Japanese Heart Transplant Recipients; S. Nunoda,¹ A. Sekikawa,¹ K. Shitakura,¹ K. Okajima,¹ S. Oinuma,¹ Y. Kubo,¹ E. Takasugi,¹ N. Hotta,¹ Y. Watanabe,¹ K. Otsuka,¹ *Department of Medicine, Tokyo Women's Medical University Medical Center East, Tokyo, Japan*
- (74) Incidence and Outcome of De-Novo Malignancy after Cardiac Transplantation – 20 Years Experience of a Single Center; S.L. Mahr,¹ M.E. Paireder,¹ A.Z. Aliabadi,¹ G. Seebacher,¹ M. Grimm,¹ E. Wolner,¹ A.O. Zuckermann,¹ *Department of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria*
- (75) The Electrophysiologic Indication and the Long-Term Prognostic Implication of Permanent Pacemaker Implantation Early and Late after Heart Transplantation; D.H. Mortsell,¹ W. Hussain,¹ V. Markides,¹ E. Birks,² N.R. Banner,² T. Wong,¹ *Cardiology, The Royal Brompton and Harefield NHS Trust, London, United Kingdom; ²Harefield Hospital, Cardiology and Transplantation Unit, The Royal Brompton and Harefield NHS Trust, Harefield, Middlesex, United Kingdom*
- (76) Aliskiren: A New Anti-Renin Blood Pressure Medication Appears Safe and Effective in Heart Transplant Recipients; M.M. Kittleson,¹ A.K. Ankrom,¹ J.K. Patel,¹ M.A. Kawano,¹ A. Ardehali,² J.A. Kobashigawa,¹ *Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*
- (77) Does Gene Expression Profiling Scores Correlate with Cardiac Allograft Vasculopathy Assessed by Intravascular Ultrasonography?; K. Jasti,¹ D. Vido,¹ C. Paul,¹ S. Bhashyam,¹ P. Olson,¹ S. Bailey,¹ D. Dean,¹ G. Magovern,¹ D. Lasorda,¹ S. Murali,¹ *Cardiac Transplant Program, Allegheny General Hospital, Pittsburgh, PA*
- (78) Preoperative Renal Insufficiency Is Not Predictive for Kidney Dysfunction after Heart Transplantation; L. Baholli,¹ B. Sill,¹ K. Müllerleile,¹ H. Reichensperner,¹ A. Costard-Jäckle,¹ *Cardiology, University Heart Center, Hamburg, Germany*
- (79) The Innocence of Coronary Spasm after Heart Transplantation; B. Itagaki,¹ J.K. Patel,¹ M.M. Kittleson,¹ M.A. Kawano,¹ A. Ardehali,² J.A. Kobashigawa,¹ *Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*
- (80) End-Stage Renal Disease after Heart Transplantation: The Benefits of Kidney Transplantation; M.M. Kittleson,¹ H.S. Song,¹ J.K. Patel,¹ M.A. Kawano,¹ D. Patel,¹ K.K. Kiyosaki,¹ A. Ardehali,² J.A. Kobashigawa,¹ *Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*
- (81) Malignancy Risk in 2007 with Current Immunosuppression Regimens; J.K. Patel,¹ A. Brown,¹ M.M. Kittleson,¹ J.C. Kawano,¹ M.A. Kawano,¹ K.K. Kiyosaki,¹ A. Ardehali,² J.A. Kobashigawa,¹ *Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

(82) Long-Term Risks Post Steroid Weaning: Not so Rosy after All; *M.M. Kittleson,¹ A.S. Vaidya,¹ J.K. Patel,¹ M.A. Kawano,¹ A. Ardehali,² J.A. Kobashigawa,¹* *Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA;* *²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

(83) Postoperative Management of Acute Graft Failure after Heart Transplantation; *A. Beiras-Fernandez,¹ I. Kaczmarek,¹ F. Weis,² M.J. Schmoedel,¹ M. Weis,² B. Reichart,¹* *Cardiac Surgery, LM-University, Munich, Germany;* *²Anaesthesiology, LM-University, Munich, Germany*

(84) Genital Human Papillomavirus (HPV) Infection and Its Consequences in CF Lung Transplant (Tx) Recipients; *C. Knoop,¹ H. Binet,¹ F. Buxant,¹ A. Vandermeeren,¹ A. Malfroot,²* *Brussels Heart and Lung Transplant Group, Erasme University Hospital, Brussels, Belgium;* *²CF Clinic, Universitaire Ziekenhuis (UZ), Brussels, Belgium*

(85) Diffuse Alveolar Damage (DAD) after Lung Transplantation: Early Pulmonary Injury Was Not Associated with the Development of Bronchiolitis Obliterans; *C.M. Burton,¹ M. Iversen,¹ J. Carlsen,¹ T. Scheike,² C.B. Andersen,³* *Department of Cardiology, Rigshospitalet, Copenhagen, Denmark;* *²Department of Biostatistics, Institute of Public Health, Copenhagen University, Copenhagen, Denmark;* *³Department of Pathology, Rigshospitalet, Copenhagen, Denmark*

(86) Analysis of Risk Factors for the Development of Bronchiolitis Obliterans Syndrome (BOS) after Lung Transplantation; *C.M. Burton,¹ J. Carlsen,¹ T. Scheike,² C.B. Andersen,³ M. Iversen,¹* *Department of Cardiology, Rigshospitalet, Copenhagen, Denmark;* *²Department of Biostatistics, Institute of Public Health, Copenhagen University, Copenhagen, Denmark;* *³Department of Pathology, Rigshospitalet, Copenhagen, Denmark*

(87) Advanced Chronic Kidney Disease Early after Lung Transplantation Predicts Worse Outcome; *T. Puehner,¹ J. Gottlieb,¹ M. Berkefeld,² A. Reising,² A.R. Simon,³ T. Welte,¹* *Respiratory Medicine, Hannover Thoracic Transplant Program, Hannover, Germany;* *²Nephrology, Hannover Medical School, Hannover, Germany;* *³Cardiothoracic, Transplantation and Vascular Surgery, Hannover Thoracic Transplant Program, Hannover, Germany*

(88) The Impact of Aspergillus Infection on Survival and Bronchiolitis Obliterans Syndrome in Lung Transplantation; *S.S. Weigt,¹ C. Huang,¹ M.P. Keane,² Y.Y. Xue,¹ V. Palchevskiy,¹ A. Ardehali,³ A.L. Gregson,¹ B. Kubak,¹ R. Saggari,¹ D.J. Ross,¹ J.P. Lynch III,¹ R.M. Elashoff,⁴ J.A. Belperio,¹* *Internal Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA;* *²Internal Medicine, St. Vincent's University Hospital and University College, Dublin, Ireland;* *³Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA;* *⁴Biomathematics, David Geffen School of Medicine at UCLA, Los Angeles, CA*

(89) Shift from PTLD to Early Onset Non-PTLD Malignancies as a Price Tag of a Protocol Switch after Lung Transplantation; *B.C. Wagemakers,¹ E.A.M. Verschuuren,² M.E. Erasmus,³ E. Bastiaannet,⁴ A.J.H. Suurmeijer,¹ W. van der Bij,²* *Pathology, University Medical Center Groningen, Groningen, Netherlands;* *²Pulmonary Diseases, University Medical Center Groningen, Groningen, Netherlands;* *³Cardiothoracic Surgery, University Medical Center Groningen, Groningen, Netherlands;* *⁴Comprehensive Cancer Center North, Groningen, Netherlands*

(90) Discrepancies between Clinical and Autopsy Diagnoses in Lung Transplant Recipients; *O.A. Akindipe,¹ S. Fernandez-Bussy,¹ A. Deem,¹ E.D. Staples,² M.A. Baz,¹* *Pulmonary and Critical Care Medicine, University of Florida Health Science Center, Gainesville, FL;* *²Cardiothoracic Surgery, University of Florida Health Science Center, Gainesville, FL*

(91) The Role of Transbronchial Biopsies in the Diagnosis of Obliterative Bronchiolitis: Time for a Re-Evaluation?; *J. Majo,^{1,2} S.M. Parker,¹ G. Johnston,¹ F. Black,² J. Lordan,¹ P.A. Corris,¹ A.J. Fisher,¹* *Applied Immunobiology and Transplant Research Group, Institute of Cellular Medicine and Cardiopulmonary Transplant Unit, Freeman Hospital and Newcastle University, Newcastle upon Tyne, United Kingdom;* *²Department of Cellular Pathology, Newcastle upon Tyne Trust Hospitals, Royal Victoria Infirmary, Newcastle upon Tyne, United Kingdom*

6:45 PM – 7:45 PM

Scientific Council on Mechanical Circulatory Support Meeting (Room 312)

Scientific Council on Infectious Diseases Meeting (Room 310)

Scientific Council on Pediatric Transplantation Meeting (Room 302)

Scientific Council on Pulmonary Hypertension Meeting (Room 311)

THURSDAY, APRIL 10, 2008

6:30 AM – 6:00 PM

Slide Ready Room Open (Room 301)

7:00 AM – 6:00 PM

Registration Open (Boylston Hallway 3rd Floor)

7:00 AM – 10:00 AM

Mounting of Posters # 234 - 292 (Exhibit Hall A)

Mounting of Mini Oral Posters # 131 - 164 (Exhibit Hall A)

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 1: Emerging Experience with Pediatric Mechanical Support (Rooms 304-306)

Chairs: Asif Hasan, MD and Charles D. Fraser, Jr., MD

7:00 AM Patient Selection, *Elizabeth Blume, MD, Children's Hospital, Boston, MA*

7:20 AM World Experience with the Berlin Heart in Pediatric Patients, *Holger W. Buchholz, MD, University of Alberta, Edmonton, Canada*

7:40 AM Novel Pediatric Circulatory Support Devices: Overview of 5 Center Experience in the US, *Brian W. Duncan, MD, Cleveland Clinic Foundation, Cleveland, OH*

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 2: Practical Approaches to GERD in Lung Transplantation (Room 312)

Chairs: Christine L. Lau, MD and John Dark, MB, FRCS

7:00 AM Introduction, *Duane Davis, MD, Duke University Medical Center, Durham, NC*

7:10 AM Panel Discussion/Case Presentations

Lieven J. Dupont, MD, PhD, University Hospital Gasthuisberg, Katholieke Universiteit, Leuven, Belgium

Frank D'Ovidio, MD, PhD, Columbia University Medical Center, New York, NY

Peter M. Hopkins, FRCAP, The Prince Charles Hospital, Brisbane, Australia

Duane Davis, MD, Duke University Medical Center, Durham, NC

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 3: Nursing Research: Exposing the Mystery (Room 302)

Chairs: Connie White-Williams, MSN and Bernice L. Coleman, PhD, RN, ACNP

7:00 AM Cultivating Research From Clinical Practice: Ideas and Challenges, *Connie White-Williams, MSN, University of Alabama, Birmingham, AL*

7:10 AM The Multiplicity of Qualitative Research Methodologies, *Annette J. DeVito Dabbs, RN, PhD, University of Pittsburgh School of Nursing, Pittsburgh, PA*

7:30 AM The Quantitative Quandry: It's All in the Measurement, *Fabienne Dobbels, MSc, PhD, University Hospital Leuven, Leuven, Belgium*

7:50 AM Panel Discussion: Research Pearls and Pitfalls: Suggestions and Solutions from the Experienced

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 4: Personalized Immunosuppression – Myth or Reality? (Room 311)

Chairs: Octavio E. Pajaro, MD, PhD and Andreas O. Zuckermann, MD

7:00 AM Can Renal Dysfunction Be Reversed? *Anne Keogh, MBBS, MD, St. Vincent's Hospital, Australia*

7:20 AM Can BOS Be Blocked? *Selim M. Arcasoy, MD, Columbia University, New York, NY*

7:40 AM Should Steroids Be Stopped? *Mark J. Zucker, MD, Newark Beth Israel Medical Center, Newark, NJ*

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 5: Core Curriculum: The ABC of Antibodies (Room 310)

Chairs: Ronald H. Kerman, PhD and Margaret Burke, FRCPath

7:00 AM Terminology and Technology of Antibodies in Transplantation, *Marlene Rose, PhD, Harefield Hospital, Harefield, United Kingdom*

7:30 AM What Should We Be Doing About Them in Thoracic Transplantation? *Elaine F. Reed, PhD, UCLA Immunogenetics Center, Los Angeles, CA*

8:00 AM – 6:00 PM

Press Office Open (Room 308)

8:15 AM - 10:15 AM

PLENARY SESSION (Ballrooms A-C)

Chairs: Bruce McManus, MD, PhD and Jon Kobashigawa, MD

8:15 AM Invited Lecture: Biomarkers: What are They? How Might They Aid in Care of Allograft Recipients and Other Patients? *Christopher J. O'Donnell, MD, MPH, National Heart Lung and Blood Institute, Framingham, MA*

8:40 AM (92) Featured Abstract: Degree of Concordance between CARGO and Biomarkers in Transplantation; Z. Hollander,¹ D. Lin,² A. Mui,³ J. Wilson-McManus,² G. Cohen Freue,⁴ R. Balshaw,⁴ R. Ng,⁵ R. McMaster,⁶ P. Keown,⁷ B. McManus,² ¹James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, St Pauls-University of British Columbia, Vancouver, BC, Canada; ²Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada; ³Surgery, University of British Columbia, Vancouver, BC, Canada; ⁴Statistics, University of British Columbia, Vancouver, BC, Canada; ⁵Computer Science, University of British Columbia, Vancouver, BC, Canada; ⁶Medical Genetics, University of British Columbia, Vancouver, BC, Canada; ⁷Medicine, University of British Columbia, Vancouver, BC, Canada

8:55 AM (93) Featured Abstract: Whole Blood Genomic Biomarkers of Acute Heart Allograft Rejection; Z. Hollander,¹ D. Lin,² R. Balshaw,³ R. Ng,⁴ P. Qasimi,¹ G. Cohen Freue,³ J. Wilson-McManus,² A. Mui,⁵ R. McMaster,⁶ P. Keown,⁷ B. McManus,² ¹James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, St Pauls Hospital-University of British Columbia, Vancouver, BC, Canada; ²Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada; ³Statistics, University of British Columbia, Vancouver, BC, Canada; ⁴Computer Science, University of British Columbia, Vancouver, BC, Canada; ⁵Surgery, University of British Columbia, Vancouver, BC, Canada; ⁶Medical Genetics, University of British Columbia, Vancouver, BC, Canada; ⁷Medicine, University of British Columbia, Vancouver, BC, Canada

9:10 AM Invited Lecture: New Tools, Technologies and Results for Probing Proteomic Biomarkers in Plasma of Transplant Patients, *Christoph H. Borchers, PhD, University of Victoria Proteomics Centre, Vancouver, Canada*

9:35 AM (94) Featured Abstract: The Inhibitor of Apoptosis Birc6 Is a Sensitive and Specific Marker of Cardiac Allograft Rejection; S. Aharinejad,^{1,2} O. Andrukhova,² R. Schaefer,² K. Krenn,^{2,3} C. May,² A. Zuckermann,¹ D. Zimpfer,¹ M. Grimm,¹ ¹Dept. of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Lab. for Cardiovasc. Research, Center for Anatomy and Cell Biology, Medical University of Vienna, Vienna, Austria; ³Dept. of Internal Medicine II, Medical University of Vienna, Vienna, Austria

9:50 AM Invited Lecture: Imaging Biomarkers: New Horizons and Opportunities in Transplantation, *Ralph Weissleder, MD, PhD, Harvard Medical School, Boston, MA*

10:00 AM – 6:45 PM

Exhibit Hall Open (Exhibit Hall A)

10:15 AM – 10:45 AM

Coffee Break (Exhibit Hall A)

10:45 AM - 12:15 PM

CONCURRENT SESSION 6: The Science of Support with Mechanical Devices (Ballrooms A-C)

Chairs: Francis D. Pagani, MD, PhD and Emma Birks, MRCP

10:45 AM (95) Clinical Experience with Recombinant Factor VII Use in Patients with Left Ventricular Assist Devices; B.A. Bruckner,¹ L.P. Jacob,² J.C. Walkes,¹ O. Habib,¹ M.J. Reardon,¹ M. Loebe,¹ I.D. Gregoric,² O.H. Frazier,² ¹DeBakey Heart Center, The Methodist Hospital, Houston, TX; ²Transplant Assist Devices, Texas Heart Institute, Houston, TX

11:00 AM (96) Sustained Activation of Vascular Endothelium Induces the Tissue Factor Pathway in LVAD Recipients; *S.R. Panch,¹ J. Hrabe,¹ A. Solovey,¹ C. Toninato,¹ R.P. Hebbel,¹ R. John,¹ ¹University of Minnesota, Minneapolis, MN*

11:15 AM (97) Preoperative Parameters at the Time of Left Ventricular Assist Device Placement Predict the Need for Biventricular Mechanical Support; J.R. Fitzpatrick III,¹ J.R. Frederick,¹ V.M. Hsu,¹ E.D. Kozin,¹ M.L. O'Hara,¹ E. Howell,¹ R.C. McCormick,¹ C.M. Laporte,¹ J.E. Cohen,¹ K.W. Southerland,¹ J.L. Howard,¹ M.L. Jessup,² R.J. Morris,¹ M.A. Acker,¹ Y.J. Woo,¹ ¹Division of Cardiac Surgery, Department of Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA; ²Division of Cardiovascular Medicine, Department of Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA

11:30 AM (98) The Influence of the Inflow Cannula Length in Rotary Blood Pumps on the Neurological Adverse Event Rate – Results from a Multi-Center Analysis; C. Schmid,¹ M. Jurmann,² D. Birnbaum,¹ T. Colombo,³ V. Falk,⁴ G. Feltrin,⁵ A. Garatti,³ M. Genoni,⁶ G. Gerosa,⁵ P. Göttel,⁷ J. Gummert,⁴ R. Halfmann,⁷ D. Hammel,⁸ E. Hennig,² F. Kaufmann,² M. Lanfranconi,³ B. Meyns,⁹ F. Mohr,⁴ J. Müller,⁷ D. Nikolov,¹⁰ K. Rucinskas,¹¹ H.H. Scheld,¹² F.-X. Schmid,¹ M. Schneider,⁸ V. Sirvydis,¹¹ R. Tandler,¹³ E. Vitali,⁴ D. Vlasselaers,⁹ M. Weyand,¹³ M. Wilhelm,⁶ R. Hetzer,² ¹Dept. of Cardiothoracic Surgery, University Hospital, Regensburg, Germany; ²Department of Cardiothoracic and Vascular Surgery, German Heart Institute, Berlin, Germany; ³Ospedale Niguarda, Milano, Italy; ⁴Heart Center, Leipzig, Germany; ⁵University of Padua, Padua, Italy; ⁶University Hospital, Zurich, Switzerland; ⁷Berlin Heart Company, Berlin, Germany; ⁸Krankenhaus Links der Weser, Bremen, Germany; ⁹Katholieke Universiteit Gasthuisberg, Leuven, Belgium; ¹⁰St. Ekaterina, Sofia, Romania; ¹¹Vilnius University, Vilnius, Lithuania; ¹²University Hospital Münster, Münster, Germany; ¹³University Hospital, Erlangen, Germany

11:45 AM (99) Sustained Normalisation of ¹²³I-MIBG Uptake after Explantation of Left Ventricular Assist Device (LVAD); R.S. George,^{1,2} A. Cheetham,³ S. Hinton-Taylor,³ R. Manlapig,³ F. Ghiotto,³ A. Marshall,³ A. Kelion,³ M.H. Yacoub,² E.J. Birks,^{1,2} ¹Mechanical Circulatory Support Department, Royal Brompton and Harefield NHS Trust, Middlesex, United Kingdom; ²Heart Science Centre, Magdi Yacoub Institute, Imperial College, London, United Kingdom; ³Nuclear Cardiology Department, Royal Brompton and Harefield NHS Trust, London, United Kingdom

NOON (100) Proteomics Analysis of the Terminal Failing Heart Supported by Ventricular Assist Devices; H. Cakar,¹ K. Stühler,² M. Grzendowski,² E. Hawranke,² H.E. Meyer,² M. Morshuis,¹ D. Röfe,¹ R. Körfer,¹ A. El Banayosy,¹ H. Miltung,¹ ¹Herz- und Diabeteszentrum NRW, Universitätsklinikum der Ruhr Universität Bochum, Erich und Hanna Klessmann-Institut für Kardiovaskuläre Forschung und Entwicklung, Bad Oeynhausen, Germany; ²Ruhr Universität Bochum, Medizinisches Proteom-Center (MPC), Bochum, Germany

10:45 AM - 12:15 PM

CONCURRENT SESSION 7: Newer Cardiac Imaging Modalities to Detect Cardiac Allograft Vasculopathy (Rooms 304-306)

Chairs: Shelley R. Hankins, MD and Deborah E. Meyers, MD, FRACP

10:45 AM (101) Coronary Flow Reserve by Contrast-Enhanced Transthoracic Echocardiography Predicts Cardiac Allograft Vasculopathy Onset in Heart Transplant Patients with Normal Coronary Angiogram; E. Osto,¹ F. Tona,¹ A.L.P. Caforio,¹ M. Napodano,¹ A. Bortolami,² A. Angelini,³ G. Gerosa,² S. Iliceto,¹ ¹Cardiology, University of Padova, Padova, Italy; ²Cardiovascular Surgery, University of Padova, Padova, Italy; ³Cardiovascular Pathology, University of Padova, Padova, Italy

11:00 AM (102) Echocardiographic 2D-Strain Imaging for Early Detection of Patients with Focal Coronary Stenoses after Heart Transplantation; M. Dandel,¹ H.B. Lehmkühl,¹ C. Knosalla,¹ O. Grauhan,¹ Y. Weng,¹ M. Pasic,¹ R. Hetzer,¹ ¹Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany

11:15 AM (103) Evaluation of Cardiac Allograft Vasculopathy by Multi-Detector CT and Whole-Heart MR Coronary Angiography; S. Nunoda,¹ H. Machida,² A. Sekikawa,¹ K. Shitakura,¹ K. Okajima,¹ M. Fujimura,² S. Oinuma,¹ Y. Kubo,¹ E. Takasugi,¹ N. Hotta,¹ Y. Watanabe,¹ E. Ueno,² K. Otsuka,¹ ¹Department of Medicine, Tokyo Women's Medical University Medical Center East, Tokyo, Japan; ²Department of Radiology, Tokyo Women's Medical University Medical Center East, Tokyo, Japan

11:30 AM (104) Diagnostic Efficacy of Dual-Source CT Coronary Angiogram in Heart Transplant Recipients in Comparison with Dobutamine Stress Echocardiography: Initial Experience; S. Mastrobuoni,¹ G. Bastarrika,² M. Ubilla,¹ J. Pueyo,² S. Castaño,³ P. Azcarate,³ C. De Cecco,² J. Herreros,¹ G. Rabago,¹ ¹Cardiovascular Surgery, Clinica Universitaria de Navarra, Pamplona, Spain; ²Radiology, Clinica Universitaria de Navarra, Pamplona, Spain; ³Cardiology, Clinica Universitaria de Navarra, Pamplona, Spain

11:45 AM (105) In Vivo Characterization of Plaque Composition in Late Cardiac Allograft Vasculopathy; T. Oberndorfer,¹ M. Frick,¹ J. Doerler,¹ D. Hofer,² H. Antretter,² G. Poelzl,¹ ¹Innsbruck Medical University, Clinical Division of Cardiology, Innsbruck, Austria; ²Innsbruck Medical University, Clinical Division of Cardiac Surgery, Innsbruck, Austria

NOON (106) Postoperative Adverse Events Are Related to Mortality after Heart Transplantation; *C.A. Rogers,¹ R.S. Bonser,¹ N.R. Banner,¹* *On Behalf of the Steering Group, UK Cardiothoracic Transplant Audit, Clinical Effectiveness Unit, The Royal College of Surgeons of England, London, United Kingdom*

10:45 AM - 12:15 PM

CONCURRENT SESSION 8: Clinical Aspects of Bronchiolitis Obliterans Syndrome (Room 312)

Chairs: Gregory I. Snell, FRACP, MBBS and Selim M. Arcasoy, MD

10:45 AM (107) Post Lung Transplantation Bronchiolitis Obliterans Syndrome. A Regression Analysis of Clinical Predictors; *S.L.C. Reddy,¹ K. Balsara,¹ S. Lin,¹ S. Palmer,¹ J.Y. Um,¹ P. Catarino,¹ E. Bush,¹ R.D. Davis,¹* *Department of Cardiothoracic Surgery and Transplantation, Duke University Medical Center, Durham, NC*

11:00 AM (108) Bronchiolitis Obliterans and Pulmonary Hypertension: A Clinicopathologic Study; *R. Saggar,¹ D.J. Ross,¹ S.S. Weigt,¹ R. Saggar,² D. Elashoff,³ D.A. Zisman,¹ A. Ardehali,³ A.L. Gregson,⁶ B. Kubak,⁶ S. Shapiro,⁷ M.C. Fishbein,⁸ C. Lai,⁸ J.P. Lynch III,¹ J.A. Belperio,¹ W.D. Wallace,⁸* *Division of Pulmonary and Critical Care Medicine, David Geffen School of Medicine at Los Angeles, Los Angeles, CA; ²Division of Pulmonary and Critical Care Medicine, UC Irvine School of Medicine, Irvine, CA; ³Department of Biomathematics, University of California, Los Angeles, Los Angeles, CA; ⁴Department of Medicine, St. Vincent's University Hospital and University College, Dublin, Ireland; ⁵Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA; ⁶Division of Infectious Diseases, David Geffen School of Medicine at UCLA, Los Angeles, CA; ⁷Cardiology, Greater Los Angeles VA Health Care Center, Los Angeles, CA; ⁸Pathology and Laboratory Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA*

11:15 AM (109) Does Persistent Pseudomonas Airway Colonization Cause Ongoing Airway Inflammation after Lung Transplantation?; *S. Devleeschauwer,¹ R. Vos,¹ B.M. Vanaudenaerde,¹ D.E. Van Raemdonck,^{2,3} L.J. Dupont,^{1,3} G.M. Verleden,^{1,3}* *Laboratory of Pneumology, Katholieke Universiteit Leuven, Leuven, Belgium; ²Laboratory of Experimental Thoracic Surgery, Katholieke Universiteit Leuven, Leuven, Belgium; ³Lung Transplantation Unit, University Hospital Gasthuisberg, Leuven, Belgium*

11:30 AM (110) Effect of Etiology and Timing of Respiratory Tract Infections on the Development of Bronchiolitis Obliterans Syndrome after Lung Transplantation; *V.G. Valentine,¹ M.R. Gupta,¹ J.E. Walker,² G.A. Lombard,¹ D. Weill,³ G.S. Dhillon,³* *Internal Medicine, University of Texas Medical Branch, Galveston, TX; ²Pulmonary and Critical Care Medicine, LSU Health Science Center, New Orleans, LA; ³Pulmonary and Critical Care Medicine, Stanford University Hospital, San Francisco, CA*

11:45 AM (111) Bronchiolitis Obliterans Organizing Pneumonia (BOOP) after Lung Transplantation: A Potentially Reversible Prelude to Bronchiolitis Obliterans?; *C.M. Burton,¹ M. Iversen,¹ J. Carlsen,¹ T. Scheike,² C.B. Andersen,³* *Department of Cardiology, Rigshospitalet, Copenhagen, Denmark; ²Department of Biostatistics, Institute of Public Health, Copenhagen University, Copenhagen, Denmark; ³Department of Pathology, Rigshospitalet, Copenhagen, Denmark*

NOON (112) Azithromycin Reverses Airflow Obstruction in Established Bronchiolitis Obliterans Syndrome – A Three Year Follow Up; *T.M. Small,¹ C. Ward,¹ B. Yates,¹ D.M. Murphy,² I.A. Forrest,¹ J.L. Lordan,¹ A.F. Fisher,¹ J.H. Dark,¹ P.A. Corris,¹* *Sir William Leech Centre for Lung Research, Freeman Hospital, Newcastle, United Kingdom; ²Department of Respiratory Medicine, Mater Misericordiae, Dublin, Ireland*

10:45 AM - 12:15 PM

CONCURRENT SESSION 9: The Biology of the Cardiac Donor (Room 302)

Chairs: Dimitri Novitzky, MD and Abbas Ardehali, MD

10:45 AM (113) Effectiveness of Hormonal Resuscitation Therapy and Control of Central Venous Pressure on Increasing Organs for Transplant; *T.M. Abdelnour,¹ S. Rieke,¹* *Procurement, LifeSource, St. Paul, MN*

11:00 AM (114) The Impact of Donor Mechanism of Death on Survival and Rejection after Heart Transplantation; *R.A. Bello,¹ D.A. D'Alessandro,¹ R.J. Frumento,¹ S. Maybaum,² D.J. Goldstein,¹* *Department of Cardiothoracic Surgery, Montefiore-Einstein Heart Center, Bronx, NY; ²Department of Cardiology, Montefiore-Einstein Heart Center, Bronx, NY*

11:15 AM (115) A Significant Association of Primary Graft Dysfunction (PGD) among Pulmonary, Renal and Cardiac Transplantation from a Same Multi-Organ Donor; *T. Oto,¹ L. Excell,² A.P. Griffiths,³ B.J. Levvey,³ P. MacDonald,⁴ S. Marasco,³ G.I. Snell,³* *Department of Thoracic Surgery, Okayama University Hospital, Okayama, Japan; ²Australia New Zealand Dialysis and Transplant Registry (ANZDATA), Adelaide, Australia; ³Lung Transplant Service, The Alfred Hospital and Monash University, Melbourne, Victoria, Australia; ⁴Cardiology/Heart Transplantation, St Vincents Hospital, Sydney, New South Wales, Australia*

11:30 AM (116) Circulatory Load during Hypoxia Impairs Post-Transplant Myocardial Functional Recovery in Donation after Cardiac Death; S. Otsaki,¹ K. Ishino,² Y. Kotani,² O. Honjo,² T. Suezawa,² T. Kohmoto,¹ S. Sano,² ¹Cardiothoracic Surgery, University of Wisconsin, Madison, WI; ²Cardiovascular Surgery, Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan

11:45 AM (117) Brain Stem Death Induced Pulmonary Hypertension – More Pronounced and Prolonged Than Left Ventricular Changes in an Ovine Model; P. Hopkins,¹ J.J. Fraser,¹ M. Nataatmadja,¹ M. Passmore,¹ A. Corley,¹ K. Dunster,¹ J. Dunning,^{1,2} F. Kermeen,^{1,2} ¹The Critical Care Research Group, The Prince Charles Hospital, Brisbane, Queensland, Australia; ²Heart Lung Transplant Unit, The Prince Charles Hospital, Brisbane, Queensland, Australia

NOON (118) Serial Cytokine Measurement in Potential Heart Donors: The Impact of Early Steroids; R. Venkateswaran,¹ V. Dronovalli,¹ P. Lambert,² P. Mistry,² C. Castello,² I. Wilson,¹ R. Thompson,¹ J. Mascaro,¹ R. Bonser,¹ ¹Department of Heart and Lung Transplantation, University Hospital Birmingham NHS Foundation Trust, Birmingham, United Kingdom; ²Department of Immunology, Aston University, Aston Triangle, Birmingham, United Kingdom

10:45 AM - 12:15 PM

CONCURRENT SESSION 10: Viral Infections in Heart and Lung Transplantation (Room 311)

Chairs: Martha L. Mooney, MD and Lara Danziger-Isakov, MD, MPH

10:45 AM (119) Dissecting CMV-Specific Immunity in High-Risk Lung Transplant Recipients: Differences between the Lung Allograft and Blood Effector Memory T Cells; M.R. Pipeling,¹ E.E. West,¹ N. Lechtzin,¹ S.A. Migueles,² M. Connors,² J.F. McDyer,¹ ¹Medicine, Johns Hopkins University, Baltimore, MD; ²NIAID, National Institutes of Health, Bethesda, MD

11:00 AM (120) Investigations into the Pathogenesis of Cytomegalovirus-Induced Transplant-Arteriosclerosis Using a Humanized Mouse Model; S.M. Ensminger,¹ S. Abele,¹ M. Leis,² M. Wollin,² M. Weyand,¹ T. Stamminger,² ¹Department of Cardiac Surgery, University of Erlangen-Nuremberg, Erlangen, Bavaria, Germany; ²Institute for Molecular and Clinical Virology, University of Erlangen-Nuremberg, Erlangen, Bavaria, Germany

11:15 AM (121) Cytomegalovirus Prevention in High Risk Lung Transplant Recipients: Comparison of 3 Months vs. 12 Months Valganciclovir Therapy; P.T.H. Jaksch,¹ B. Zwegtick,¹ G. Lang,¹ A. Hoda,¹ M. Keplinger,¹ M. Gaugg,¹ W. Klepetko,¹ ¹Dept of Cardiothoracic Surgery, General Hospital Vienna, Vienna, Austria

11:30 AM (122) Risk Factors Associated to CMV Viremia in Cardiac Transplant Patients. A Prospective Study; J. Delgado,¹ N. Manito,² L. Almenar,³ M. Crespo-Leiro,⁴ E. Roig,⁵ J. Segovia,⁶ J.A. Vázquez de Prada,⁷ E. Lage,⁸ J. Palomo,⁹ M. Campreciós,¹⁰ J.M. Arizón,¹¹ J.L. Rodríguez-Lambert,¹² T. Blasco,¹³ L. De La Fuente,¹⁴ D. Pascual,¹⁵ G. Rábago,¹⁶ ¹Cardiology, H. 12 de Octubre, Madrid, Spain; ²Cardiology, H. de Bellvitge, L'Hospitalet del Llobregat, Barcelona, Spain; ³Cardiology, H. La Fé, Valencia, Spain; ⁴Cardiology, H. Juan Canalejo, A Coruña, Spain; ⁵Cardiology, H. Clinic, Barcelona, Spain; ⁶Cardiology, H. Puerta de Hierro, Madrid, Spain; ⁷Cardiology, H. Marqués de Valdecilla, Santander, Spain; ⁸Cardiology, H. Virgen del Rocío, Sevilla, Spain; ⁹Cardiology, H. Gregorio Marañón, Madrid, Spain; ¹⁰Cardiology, H. Sant Pau, Barcelona, Spain; ¹¹Cardiology, H. Reina Sofía, Córdoba, Spain; ¹²Cardiology, H. Central de Asturias, Oviedo, Spain; ¹³Cardiology, H. Miguel Servet, Zaragoza, Spain; ¹⁴Cardiology, Clínico Universitario, Valladolid, Spain; ¹⁵Cardiology, H. Virgen de la Arrixaca, Murcia, Spain; ¹⁶Cardiovascular Surgery, Clínica Universitaria de Navarra, Pamplona, Spain

11:45 AM (123) The Influence of Valganciclovir Prophylaxis on Cytomegalovirus Infection after Lung Transplantation; M.E. Hellemons,¹ W. van der Bij,¹ M.E. Erasmus,² E.A.M. Verschuuren,¹ ¹Pulmonary Disease, UMCG, Groningen, Netherlands; ²Cardiothoracic Surgery, UMCG, Groningen, Netherlands

NOON (124) Epstein-Barr Virus and Post-Transplant Lymphoproliferative Disease in Stable Heart Transplantation (HTX) Follow-Up Patients; A.O. Doesch,¹ M. Konstandin,¹ S. Celik,¹ A. Kristen,¹ P. Schnitzler,³ A. Koch,² P. Schnabel,⁴ H.A. Katus,¹ T.J. Dengler,¹ ¹Department of Cardiology, University of Heidelberg, Heidelberg, Germany; ²Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany; ³Department of Virology, University of Heidelberg, Heidelberg, Germany; ⁴Department of Pathology, University of Heidelberg, Heidelberg, Germany

10:45 AM - 12:15 PM

CONCURRENT SESSION 11: Regulatory T-cells (Room 310)

Chairs: George Tellides, MD, DPhil and Stephen M. Ensminger, MD, DPhil

10:45 AM (125) Chemokine Receptor Blockade Induces Regulatory T Cells; S. Bastani,¹ R. Bhatia,¹ R. Manasrah,¹ J. Belperio,² M.C. Fishbein,³ A. Ardehali,¹ ¹Surgery, Division of Cardiothoracic Surgery, UCLA Medical Center, Los Angeles, CA

Angeles, CA; ²Medicine, Division of Pulmonary and Critical Care Medicine, UCLA Medical Center, Los Angeles, CA; ³Pathology and Laboratory Medicine, UCLA Medical Center, Los Angeles, CA

11:00 AM (126) CD4⁺CD25^{bright}FoxP3⁺ Regulatory T Cells of Rejecting Heart Transplant Patients Have Inferior Immune Regulatory Functions; *E. Dijke,¹ S. Korevaar,¹ A. Balk,² K. Caliskan,² L. Maat,³ W. Weimar,¹ C. Baan,¹* ¹Department of Internal Medicine, Erasmus MC, Rotterdam, Netherlands; ²Department of Cardiology, Erasmus MC, Rotterdam, Netherlands; ³Department of Thoracic Surgery, Erasmus MC, Rotterdam, Netherlands

11:15 AM (127) Overexpression of Exogenous IL-4 and IL-10 Synergistically Upregulates Infiltrative CD4⁺CD25⁺ T Cells in Cardiac Allografts and Induces Long-Term Allograft Survival; *H. Furukawa,¹ M. Jeminous,¹ G. Cui,^{1,2} H. Laks,¹ L. Sen,^{1,2}* ¹Surgery, UCLA School of Medicine, Los Angeles, CA; ²Medicine, UCLA School of Medicine, Los Angeles, CA

11:30 AM (128) Influence of MHC Class II Matching on Regulatory Tolerance to Heart Transplants; *P.N.A. Martins, S.K. Germana, C. LeGuern* ¹Dept. of Surgery, Transplant Biology Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA

11:45 AM (129) Immunomodulation by Photopheresis Involves Regulatory T Cells; *J.F. George,¹ C.W. Gooden,¹ L. Guo,¹ J.K. Kirklin,¹* ¹Department of Surgery, University of Alabama at Birmingham, Birmingham, AL

12:00 PM (130) Costimulatory Blockade Leads to Accumulation of Antigen-Specific CD4⁺Foxp3⁺ Regulatory T Cells in Vascularized Mouse Lung Allografts and Prevents Their Acute Rejection; *M. Okazaki,¹ S. Sugimoto,¹ J. Lai,¹ C.G. Kornfeld,¹ J.R. Tietjens,¹ H.J. Huang,¹ S.B. Richardon,¹ A. Patterson,¹ A.S. Krupnick,¹ A.E. Gelman,¹ D. Kreisel,¹* ¹Surgery, Washington University in St. Louis, St. Louis, MO

12:30 PM – 2:00 PM

LUNCH SYMPOSIUM: Cardiac Allograft Vasculopathy: Lessons Learned from Clinical Experience (Ballrooms A-C)

Supported by an unrestricted educational grant from Novartis Pharma

Chairs: Mandeep R. Mehra, MD and Maria Crespo-Leiro, MD

Case Presentations

12:30 PM Patient with Graft Dysfunction, Normal Coronary Angiography and CAV by IVUS, *Jon Kobashigawa, MD, University of California at Los Angeles, CA*

12:50 PM Patient with Pre-existing Donor Coronary Disease and Question of Progression Post-Transplant, *Hans B. Lehmkühl, MD, Deutsches Herzzentrum Berlin, Germany*

1:10 PM Patient with Diffuse Cardiac Allograft Vasculopathy, *Adrian B. Van Bakel, MD, PhD, Charleston, SC*

1:30 PM Emerging Challenges in Cardiac Allograft Vasculopathy, A Panel Discussion

1:50 PM Summary of Session and Closing Comments, *Mandeep R. Mehra, MD, and Maria Crespo-Leiro, MD*

12:30 PM - 2:00 PM

JHLT Editorial Board Meeting (Room 300)

12:30 PM - 2:00 PM

MINI-ORAL SESSION I (Room 312)

Chairs: Marc De Perrot, MD, Martin Iverson, MD, PhD, and Ramsey R. Hachem, MD

12:30 PM (131) Factors Affecting Airway Complications after Lung Transplantation: A Single-Center Experience of 460 Patients; *E. Fadel,¹ M. de Perrot,¹ A. Pierre,¹ T. Waddell,¹ C. Chaparro,¹ M. Hutcheon,¹ L. Singer,¹ S. Keshavjee,¹* ¹Toronto Lung Transplant Program, Toronto General Hospital, Toronto, ON, Canada

12:35 PM (132) Airway Complications after Lung Transplantation: Incidence and Risk Factors in a Contemporary Series; *R.R. Hachem,¹ B.F. Meyers,² R.D. Yusef,¹ A. Patterson,² E.P. Trulock,¹* ¹Pulmonary Critical Care, Washington University School of Medicine, St. Louis, MO; ²Thoracic Surgery, Washington University School of Medicine, St. Louis, MO

12:40 PM (133) Increased BAL Neutrophilia on Routine Bronchoscopy 3 or 6 Months after Lung Transplantation Is a Significant Predictor of BOS; L.J. Dupont,¹ B.M. Vanaudenaerde,¹ R. Vos,¹ D.E. Van Raemdonck,¹ G.M. Verleden,¹ ¹Leuven Lung Transplant Team, University Hospital Gasthuisberg, Leuven, Belgium

12:45 PM (134) Current Results for Lung Transplantation in Children; O. Elidemir,¹ M.G. Schecter,¹ J.S. Heinle,² D.L. Morales,² E.D. McKenzie,² J.M. Robertson,¹ G.B. Mallory,¹ ¹Pediatric Pulmonology, Baylor College of Medicine, Houston, TX; ²Congenital Heart Surgery, Baylor College of Medicine, Houston, TX

12:50 PM (135) Can LVRS Postpone Lung Transplantation in Emphysema Patients?; T. Strauss,¹ P. Soldo,¹ R.A. Hatz,¹ J. Behr,² M. Rehm,⁴ B. Reichart,³ Munich Lung Transplant Group,^{1,2,3,4} ¹Dept. of Surgery, University of Munich, Munich, Germany; ²Dept. of Medicine, University of Munich, Munich, Germany; ³Dept. of Cardiac Surgery, University of Munich, Munich, Germany; ⁴Dept. of Anesthesiology, University of Munich, Munich, Germany

12:55 PM (136) Lung Disease in Young Adult Survivors of Moderate and Severe Bronchopulmonary Dysplasia – A Future Indication for Lung Transplantation?; D.C. Chambers,¹ C.P. Murray,² J. Louw,² N. French,³ A. Wilson,¹ ¹Western Australian Lung Transplant Program, Royal Perth Hospital, Perth, Western Australia, Australia; ²Department of Diagnostic Imaging, Royal Perth Hospital, Perth, Western Australia, Australia; ³Neonatal Clinical Care Unit, King Edward Memorial Hospital, Perth, Western Australia, Australia

1:00 PM (137) Restoration of Cough Reflex in Lung Transplant Recipients: Functional and Histologic Evidence; A.G. Duarte, G. Campbell, A. Myers, S. Lick ¹Internal Medicine, University of Texas Medical Branch, Galveston, TX; ²Johns Hopkins University, Baltimore, MD

1:05 PM (138) Spontaneous Reversal of Acid GER after Lung Transplantation; F. D'Ovidio,¹ T. Waddell,² L.G. Singer,² A. Pierre,² M. De Perrot,² C. Chaparro,² M. Hutcheon,² L. Miller, G. Darling, S. Keshavjee ¹Columbia University Medical Centre, New York; ²University of Toronto, Toronto, Canada

1:10 PM (139) Lung Transplantation in Older Patients with Cystic Fibrosis: An Analysis of UNOS Data; E.S. Weiss,¹ M.N. Modi,¹ M.C. Borja,¹ C.A. Merlo,² J.V. Conte,¹ A.S. Shah,¹ ¹Division of Cardiac Surgery, Department of Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD; ²Division of Pulmonology, Department of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD

1:15 PM (140) Exercise Induced Pulmonary Hypertension (EIPH) Is Clinically Important and Precedes the Development of Pulmonary Hypertension (PH) at Rest; R. Fowler,^{1,2,3} A. Maiorana,^{1,2,4} S. Jenkins,^{2,3} G. O'Driscoll,^{1,4} M. Thomas,¹ C. Reed,¹ E. Gabbay,^{1,2,3,5} ¹Royal Perth Hospital, Perth, Western Australia, Australia; ²Curtin University of Technology, Perth, Western Australia, Australia; ³Lung Institute of Western Australia, Perth, Western Australia, Australia; ⁴University of Notre Dame, Perth, Western Australia, Australia; ⁵University of Western Australia, Perth, Western Australia, Australia

1:20 PM (141) Post Transplant Lymphoproliferative Disorder (PTLD) after Heart or Lung Transplantation: Incidence, Prognostic Factors and Outcome; R. Banerjee,¹ S. Zemenides,² M. Burke,³ T. Mittal,⁴ M. Carby,⁵ P. Hoskin,⁶ N. Banner,⁷ ¹Transplantation, Harefield Hospital, Harefield, Middlesex, United Kingdom; ²Harefield Hospital, Harefield, United Kingdom; ³Harefield Hospital, Harefield, United Kingdom; ⁴Harefield Hospital, Harefield, United Kingdom; ⁵Harefield Hospital, Harefield, United Kingdom; ⁶Mount Vernon Hospital, Hillingdon, United Kingdom; ⁷Harefield Hospital, Harefield, United Kingdom

1:25 PM (142) Protective Effect of Nebulized Milrinone in Pulmonary Warm Ischemia–Reperfusion Injury; F. Chen,¹ J. Zhang,² X. Zhao,¹ A. Aoyama,² T. Okamoto,² T. Fujinaga,¹ A. Takahashi,² N. Satoda,² T. Shoji,² H. Sakai,² T. Bando,¹ ¹Organ Preservation Technology, Kyoto University, Kyoto, Japan; ²Thoracic Surgery, Kyoto University, Kyoto, Japan

1:30 PM (143) The Non-Heart Beating Donor for Heart Transplantation: A New and Evolving Source of Organs; A.A. Ali,¹ P. White,² K. Dhital,¹ M. Ryan,³ S. Tsui,¹ S.R. Large,¹ ¹Department of Cardiothoracic Surgery, Papworth Hospital, Papworth Everard, Cambridge, United Kingdom; ²Department of Bio-Engineering, Addenbrookes Hospital, Cambridge, United Kingdom; ³Department of Transplantation, Addenbrookes Hospital, Cambridge, United Kingdom

1:35 PM (144) Sildenafil Citrate Enhances Myocardial Protection in Cardiac Transplantation; P. Botha,¹ J.H. Dark,² G.A. MacGowan,³ ¹Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, Tyne and Wear, United Kingdom; ²Department of Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom; ³Department of Cardiology, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom

1:40 PM (145) Impact of Topical Cooling Solution and Prediction of Pulmonary Graft Viability from Non-Heart-Beating Donors; I. Inci,¹ W. Zhai,¹ S. Arni,¹ D. Inci,² S. Hillinger,¹ B. Leskosek,¹ W. Weder,¹ ¹Department of Thoracic

Surgery, University Hospital, Zurich, Switzerland; ²Division of Pediatric Pulmonology, University Children Hospital, Zurich, Switzerland

1:45 PM (146) Donor Pretreatment with Hypertonic Saline Improves Coronary Artery Vascular Function Post-Cardiac Transplantation; M.V. Badiwala,¹ D. Ramzy,¹ L.C. Tumiati,¹ E.D. Tepperman,¹ R. Sheshgiri,¹ J.L. Prodder,¹ C.M. Feindel,¹ V. Rao,¹ ¹Division of Cardiovascular Surgery, Peter Munk Cardiac Centre, Toronto General Hospital, Toronto, ON, Canada

12:30 PM - 2:00 PM

MINI-ORAL SESSION II (Room 302)

Chairs: Bruno M. Meiser, MD, Jayan Parameshwar, FRCP, and Hermann Reichenspurner, PhD

12:30 PM (147) Comparison of Post Cardiac Transplant Outcomes between African American (AA) and Caucasian (CA) Patients: A Single Center Experience; A. Srivastava,¹ I. Alesh,¹ C. Williams,¹ D. Lanfear,¹ C. Tita,¹ R. Brewer,¹ H. Nemeš, L. Krese, C. Drost, G. Jacobsen, B. Czernska ¹Advanced Heart Failure/Cardiac Transplant.Heart Vascular Institute, Henry Ford Hospital, Detroit, MI

12:35 PM (148) The Role of Race in Survival after Heart Transplantation; R.A. Bello,¹ D.A. D'Alessandro,¹ R.J. Frumento, S. Maybaum,² D.J. Goldstein,¹ ¹Department of Cardiothoracic Surgery, Montefiore-Einstein Heart Center, Bronx, NY; ²Department of Cardiology, Montefiore-Einstein Heart Center, Bronx, NY

12:40 PM (149) Incidence of De Novo Solid Malignancies after Heart Transplantation Is Comparable to the General Population; L. Kellerman,¹ B. Burke,¹ Y. Naka,¹ A. Neugut,¹ D. Mancini,¹ ¹Columbia University, New York, NY

12:45 PM (150) Smoking after Heart Transplantation: Self-Report Versus Urinary or Salivary Cotinine; A.F. Kaan,¹ Q.R. Young,¹ M.H. Mackay,¹ L. Straatman,¹ ¹The Heart Centre, St Paul's Hospital, Vancouver, BC, Canada

12:50 PM (151) Symptom Frequency and Distress from 5 to 10 Years after Heart Transplantation; K.L. Grady,¹ E. Wang,² R. Higgins,³ A. Heroux,⁴ B. Rybarczyk,⁵ J.B. Young,⁶ D. Pelegrin,⁶ J. Czerr,⁶ J. Kobashigawa,⁷ J. Chait,⁷ D.C. Naftel,⁸ C. White-Williams,⁹ S. Myers,⁸ J.K. Kirklin,⁸ ¹Surgery/Division of Cardiothoracic Surgery, Northwestern University, Chicago, IL; ²Center on Outcomes, Research, and Education, Evanston Northwestern Healthcare, Northwestern University, Evanston, IL; ³Cardiovascular-Thoracic Surgery, Rush University Medical Center, Chicago, IL; ⁴Cardiology, Loyola University Medical Center, Maywood, IL; ⁵Psychology, Virginia Commonwealth University, Richmond, VA; ⁶Cardiology, Cleveland Clinic, Cleveland, OH; ⁷Division of Clinical Faculty Medicine, University of California, Los Angeles, Los Angeles, CA; ⁸Surgery/Division of Cardiothoracic Surgery, University of Alabama at Birmingham, Birmingham, AL; ⁹Nursing, University of Alabama at Birmingham, Birmingham, AL

12:55 PM (152) Randomized Rehabilitation To Improve Exercise Capacity and HRQoL after Heart Transplantation; C. Kugler,¹ U. Tegtbur,² D. Malehsa,¹ C. Bara,¹ M. Strueber,¹ A. Haverich,¹ A. Simon,¹ ¹Cardiothoracic and Transplant Surgery, Hannover Thoracic Transplant Program, Hannover Medical School, Hannover, Germany; ²Sports Medicine, Hannover Medical School, Hannover, Germany

1:00 PM (153) Strain and Strain Rate by Velocity Vector Imaging in Diagnosing Acute Rejection after Heart Transplantation; E. Osto,¹ F. Tona,¹ A. Bortolami,² A.L.P. Caforio,¹ A. Angelini,³ A. Ramondo,¹ G. Gerosa,² S. Iliceto,¹ ¹Cardiology, University of Padova, Padova, Italy; ²Cardiovascular Surgery, University of Padova, Padova, Italy; ³Cardiovascular Pathology, University of Padova, Padova, Italy

1:05 PM (154) Beneficial Effect of Omega-3 Fatty Acids in in Sirolimus/Everolimus-Induced Hypertriglyceridemia in Heart Transplant Recipients; S. Celik, A.O. Doesch, C. Erbel, A. Koch, T.J. Dengler ¹Medizinische Klinik, Cardiology, Heidelberg, Baden-Württemberg, Germany; ²Surgery, Uniklinik Heidelberg, Heidelberg, Baden-Württemberg, Germany

1:10 PM (155) Immediate Extubation in Patients for Heart Transplantation; J. Horswell,¹ P.A. Tavakolian,² H.T. Borno,² S.L. Prince,² M.A. Herbert,¹ M.J. Magee,¹ T.M. Dewey,¹ M.J. Mack,¹ ¹Medical City Dallas Hospital, Dallas, TX; ²Cardiopulmonary Research Science and Technology Institute, Dallas, TX

1:15 PM (156) Hypercholesterolemia in Heart Transplant Patients on Proliferation-Signal Inhibitors: Is Statin Therapy Effective?; M.M. Kittleson,¹ M.A. Kawano,¹ J.K. Patel,¹ M.V. Yajnik,¹ K.K. Kiyosaki,¹ J. Kawano,¹ A. Ardehali,² J.A. Kobashigawa,¹ ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA

1:20 PM (157) Survival Statistics in Heart Transplant Patients with Increased BMI; A. Kashem,¹ T. Hollander,¹ D.G. Beltramo,¹ J.T. Fitzpatrick,¹ S. Furukawa,¹ J.B. McClurken,¹ P.J. Matter,² A.A. Bove ¹Cardiomyopathy and Heart

Transplantation, Temple University School of Medicine, Philadelphia, PA; ²Heart Failure Section, Cardiology, Thomas Jefferson University Hospital, Philadelphia, PA

1:25 PM (158) The Influence of the Duration of Ventricular Assist Device Support on Survival Following Heart Transplantation; S.H. Brann,¹ R.L. Kormos,¹ K.R. McCurry,¹ M. P. Siegenthaler,¹ Y. Toyoda,¹ J. Teuteberg,² D. McNamara,² J.K. Bhamra,¹ C.A. Bermudez,¹ ¹Heart, Lung and Esophageal Surgery Institute, University of Pittsburgh Medical Center, Pittsburgh, PA; ²Department of Cardiology, University of Pittsburgh Medical Center, Pittsburgh, PA

1:30 PM (159) Improved Survival after Heart Transplantation in Patients with Bridge to Transplant in Recent Era – The University of Wisconsin Experience; S. Osaki,¹ N.M. Edwards,¹ M.R. Johnson,² L. Lozonschi,¹ M.A. Murray,¹ T. Kohmoto,¹ ¹Cardiothoracic Surgery, University of Wisconsin, Madison, WI; ²Heart Failure and Transplant Cardiology, University of Wisconsin, Madison, WI

1:35 PM (160) Intralymphocytic Cyclosporine Exposure Is Not Accurately Predicted by C0 or C2 Blood Levels in Everolimus Treated Patients; F. Gustafsson,¹ D. Barth,² J. Sheedy,¹ M. Nsouli,¹ D.H. Delgado,¹ H.J. Ross,¹ ¹Heart Failure and Transplant, Toronto General Hospital, Toronto, ON, Canada; ²Department of Haematology, UHN, Toronto, ON, Canada

1:40 PM (161) Impact of De Novo Everolimus-Based Immunosuppression on Wound Healing and Tissue Regeneration in Heart Transplantation; A. Zuckermann,¹ J. Arizon,² S.-S. Wang,³ M. MacCherini,⁴ E. Vermes,⁵ C. Bara,⁶ H. Ross,⁷ G. Laufer,⁸ H. Lehmkuhl,⁹ A.M. Keogh,¹⁰ C. Sips,¹¹ ¹Universitaet Wien Allgemeines Krankenhaus Universitaetklinik, Vienna, Austria; ²Hospital Universitario Reina Sofia, Córdoba, Spain; ³National Taiwan University Hospital, Taipei, Taiwan; ⁴Policlinico Le Scotte – Università degli Studi, Siena, Italy; ⁵Hôpital Henri Mondor, Creteil, France; ⁶Medizinische Hochschule Hannover, Hannover, Germany; ⁷Toronto General Hospital, Toronto, Canada; ⁸Universitaetsklinik fuer Chirurgie, Innsbruck, Austria; ⁹Deutsches Herzzentrum Berlin, Berlin, Germany; ¹⁰St Vincents Hospital, Darlinghurst, Australia; ¹¹Novartis Pharma AG, Basel, Switzerland

1:45 PM (162) Sirolimus Use in Heart Transplant Recipients Is Associated with a High Incidence of Adverse Reactions Requiring Drug Discontinuation; M.X. Pham,¹ P.K. Sarna,¹ G.P. Bhumireddy,¹ V.D. Evuri,¹ J.P. Abella,¹ H.A. Valentine,¹ S.A. Hunt,¹ ¹Cardiovascular Medicine, Stanford University School of Medicine, Stanford, CA

1:50 PM (163) Everolimus May Have Lower Adverse Effect Profile Compared to Sirolimus in Heart Transplant Patients; M.M. Kittleson,¹ S.A. Carr,¹ J.K. Patel,¹ M.A. Kawano,¹ K.K. Kiyosaki,¹ A.K. Ankrom,¹ A. Ardehali,² J.A. Kobashigawa,¹ ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA

1:55 PM (164) Microalbuminuria Is Strongly Associated with Long-Term Cyclosporine Immunosuppression and with Reduced Renal Function in Heart Transplanted Patients: A Better Predictive Index?; R. Fiocchi,¹ A. Iacovoni,¹ R. Sebastiani,¹ A. Fontana,¹ C. Ottomano,² L. Gandolfi,¹ L. Michetti,² A. Gamba,¹ ¹Cardiovascular Department, Ospedali Riuniti, Bergamo, Italy; ²Laboratory Department, Ospedali Riuniti, Bergamo, Italy

2:15 PM - 3:45 PM

CONCURRENT SESSION 12: Confounding Issues in MCS (Ballrooms A-C)

Chairs: Maryl R. Johnson, MD and Ugolino Livi, MD

2:15 PM (165) Comparison of Observed Survival after Ventricular Assist Device Placement vs. Predicted Survival without Assist Device Using the Seattle Heart Failure Model; S.V. Pamboukian,¹ T. Nielsen,¹ R.N. Brown,² W. Holman,² J.K. Kirklin,² I. Singla,¹ P. Blood,¹ J.A. Tallaj,¹ B. Rayburn,¹ R. Benza,¹ R.C. Bourge,¹ W.C. Levy,³ ¹Cardiovascular Diseases, University of Alabama at Birmingham, Birmingham, AL; ²Cardiovascular Surgery, University of Alabama at Birmingham, Birmingham, AL; ³Cardiology, University of Washington, Seattle, WA

2:30 PM (166) Left Ventricular Dimension Predicts Successful Myocardial Recovery and Device Explant in Nonischemic Cardiomyopathy Patients Requiring Mechanical Circulatory Support; M.A. Simon,¹ J.J. Teuteberg,¹ R.L. Kormos,² M. Siegenthaler,² H. Shah,¹ J. Gorscan,¹ D.M. McNamara,¹ ¹Cardiovascular Institute, University of Pittsburgh, Pittsburgh, PA; ²Department of Cardiothoracic Surgery, University of Pittsburgh, Pittsburgh, PA

2:45 PM (167) Impact of Age on Outcomes of Ventricular Assist Devices Utilized as Bridge to Cardiac Transplantation; M.H. Kwon,¹ J.D. Moriguchi,² M.D. Plunkett,¹ A. Ardehali,¹ R.E. Beygui,¹ D. Marelli,¹ R. Jocson,¹ H. Laks,¹ R.J. Shemin,¹ F. Esmailian,¹ ¹Surgery, Division of Cardiothoracic Surgery, UCLA Medical Center, Los Angeles, CA; ²Medicine, Division of Cardiology, UCLA Medical Center, Los Angeles, CA

3:00 PM (168) Neurocognitive Evaluation of Patients Receiving Continuous Flow Left Ventricular Assist Devices (LVADs); R.J. Petrucci,¹ S.D. Russell,² D.M. Mancini,³ S. Wright,⁴ D. Dordunoo,² K.A. Idrissi,³ D.J. Farrar,³ K.D. Aaronson,⁴ ¹Drexel University College of Medicine, Philadelphia, PA; ²Johns Hopkins Hospital, Baltimore, MD;

³Columbia University Medical Center, New York, NY; ⁴University of Michigan Health System, Ann Arbor, MI;
⁵Thoratec Corporation, Pleasanton, CA

3:15 PM (169) Effect of Intracorporeal Ventricular Assist Devices on the Risk of Mortality or Retransplantation Following Cardiac Transplantation – An Analysis of the United Network for Organ Sharing (UNOS) Registry; V. Patlolla,¹ D. DeNofrio,¹ R.D. Patten,¹ M.A. Konstam,¹ R. Krishnamani,¹ ¹Division of Cardiology, Tufts-New England Medical Center, Boston, MA

3:30 PM (170) Levitronix CentriMag Short-Term Ventricular Assist Device as a “Bridge-to-Bridge” Solution; A. Loforte,¹ E. Potapov,¹ T. Krabatsch,¹ Y. Weng,¹ M. Pasic,¹ T. Drews,¹ R. Hetzer,¹ ¹Cardio-Thoracic Surgery Department, Deutsches Herzzentrum Berlin, Berlin, Germany

2:15 PM - 3:45 PM

CONCURRENT SESSION 13: Clinical Heart Transplantation: Outcomes I (Rooms 304-306)

Chairs: Diego H. Delgado, MD and Stephan Schueler, MD, PhD, FRCS

2:15 PM (171) Impact of Interaction of Donor Characteristics on Post-Transplant Survival. A Multi-Institutional Analysis; J. Stehlik,^{1,7} D.S. Feldman,² R.N. Brown,⁶ A.B. VanBakel,³ S.D. Russell,⁴ G. Ewald,⁵ M.E. Hagan,⁷ J. Folsom,¹ J.K. Kirklin,⁶ Cardiac Transplant Research Database¹ U.T.A.H. Cardiac Transplant Program, Salt Lake City, UT; ²Ohio State Univ., Columbus, OH; ³Medical University of South Carolina, Charleston, SC; ⁴The Johns Hopkins Hospital, Baltimore, MD; ⁵Washington University School of Medicine, St. Louis, MO; ⁶University of Alabama at Birmingham, Birmingham, AL; ⁷SLC VA HCS, U.T.A.H. Cardiac Transplant Program, Salt Lake City, UT

2:30 PM (172) Trends in Adult Heart Transplantation: A UK Survey; J. Thekkudan,¹ C. Rogers,¹ H.L. Thomas,² R.S. Bonser,¹ N.R. Banner,¹ ¹On Behalf of the Steering Group, UK Cardiothoracic Transplant Audit, Clinical Effectiveness Unit, The Royal College of Surgeons of England, London, United Kingdom; ²UK Transplant, Bristol, United Kingdom

2:45 PM (173) Volume-Outcome Relationship in Cardiac Transplantation; J.H. Shuhaiber,¹ J. Moore,² D.B. Dyke,³ ¹Department of Thoracic and Cardiovascular Surgery, Loyola University Stritch School of Medicine, Chicago, IL; ²SRTR, Arbor Research, Ann Arbor, MI; ³Division of Cardiovascular Medicine, University of Michigan Health System, Ann Arbor, MI

3:00 PM (174) Different Immunosuppressive Approaches, Similar Outcomes. ISHLT Registry Analysis; J. Stehlik,^{1,2} L.B. Edwards,^{3,5} D.O. Taylor,^{4,5} ¹U.T.A.H. Cardiac Transplant Program, Salt Lake City, UT; ²SLC VA Health Care System, Salt Lake City, UT; ³United Network for Organ Sharing, Richmond, VA; ⁴Cleveland Clinic Foundation, Cleveland, OH; ⁵International Society for Heart and Lung Transplantation, Addison, TX

3:15 PM (175) Traditional Modifiable Risk Factors: What Is Their Significance Following Heart Transplantation?; S. Arora,¹ A.K. Andreassen,¹ S. Simonsen,¹ E. Gude,¹ A. Fiane,² O. Geiran,² L. Gullestad,¹ ¹Department of Cardiology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ²Department of Cardiothoracic Surgery, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway

3:30 PM (176) Calcitriol Deficiency Is Associated with Increased Mortality Risk in Cardiac Transplant Recipients; A. Zittermann,¹ S.S. Schleithoff,¹ C. Gotting,² U. Fuchs,¹ J. Kuhn,² S. Wlost,¹ K. Kleesiek,² G. Tenderich,¹ R. Koerfer,¹ ¹Klinik fuer Thorax- und Kardiovaskularchirurgie, Herz- und Diabeteszentrum NRW, Bad Oeynhausen, Germany; ²Institut fuer Laboratoriums- und Transfusionsmedizin, Herz- und Diabeteszentrum NRW, Bad Oeynhausen, Germany

2:15 PM - 3:45 PM

CONCURRENT SESSION 14: Reflux and Aspiration: Fact or Fantasy (Room 312)

Chairs: Frank D'Ovidio, MD, PhD and Geert M. Verleden, MD, PhD

2:15 PM (177) Azithromycin Reduces Bile Acid Aspiration in Lung Transplant Recipients; V. Mertens,¹ K. Blondeau,¹ B.M. Vanaudenaerde,² R. Vos,² D.E. Van Raemdonck,^{2,3} G.M. Verleden,^{2,3} L.J. Dupont,^{2,3} D. Sifrim,¹ ¹Center for Gastroenterological Research, University Hospital Gasthuisberg, Leuven, Belgium; ²Laboratory of Pneumology, Catholic University Leuven, Leuven, Belgium; ³Lung Transplantation Unit, University Hospital Gasthuisberg, Leuven, Belgium

2:30 PM (178) Does Pepsin in Gastric Juice Aspirated into the Lung Allograft Stimulate Mucus Hypersecretion?; R. Stovold,¹ P.A. Corris,² A.J. Fisher,² J.L. Lordan,² J.P. Pearson,¹ C. Ward,² ¹Institute of Cell Molecular Biosciences, Newcastle University, Newcastle-upon-Tyne, United Kingdom; ²Institute of Cellular Medicine, Newcastle University, Newcastle-upon-Tyne, United Kingdom

2:45 PM (179) Is Airway Colonization by *P. aeruginosa* Associated with Bile Acid Aspiration after Lung Transplantation?; S. Devleeschauwer,¹ R. Vos,¹ K. Blondeau,² V. Mertens,² B.M. Vanaudenaerde,¹ D. Sifrim,² G.M. Verleden,³ L.J. Dupont,³ ¹Laboratory of Pneumology, Katholieke Universiteit Leuven, Leuven, Belgium; ²Laboratory of Gastro-Enterology, Katholieke Universiteit Leuven, Leuven, Belgium; ³Lung Transplantation Unit, University Hospital Gasthuisberg, Leuven, Belgium

3:00 PM (180) Early Fundoplication Reduces the Incidence of Chronic Allograft Dysfunction in Patients with Gastroesophageal Reflux Disease; K.R. Balsara,¹ E. Cantu,¹ E.L. Bush,¹ J.Z. Appel,¹ M.G. Hartwig,¹ S.S. Lin,¹ R.D. Davis,¹ ¹Surgery, Duke University Medical Center, Durham, NC

3:15 PM (181) Pepsin or Bile Acids: What Is the Best Marker of Gastric Aspiration in Lung Transplant Recipients?; V. Mertens,¹ K. Blondeau,¹ B.M. Vanaudenaerde,² R. Vos,² D.E. Van Raemdonck,^{2,3} G.M. Verleden,^{2,3} D. Sifrim,¹ L.J. Dupont,^{2,3} ¹Center for Gastroenterological Research, University Hospital Gasthuisberg, Leuven, Belgium; ²Laboratory of Pneumology, Catholic University Leuven, Leuven, Belgium; ³Lung Transplantation Unit, University Hospital Gasthuisberg, Leuven, Belgium

3:30 PM (182) Longer Term Outcomes of Laproscopic Fundoplication in Patients after Lung Transplant; P. Burton,¹ B.M. Button,² M. Lee,¹ S. Roberts,³ B.J. Levvey,⁴ A. Smith,¹ W. Brown,¹ G.I. Snell,⁴ ¹Department of Surgery, The Alfred Monash University, Melbourne, Victoria, Australia; ²Department of Respiratory Medicine, The Alfred, Melbourne, Victoria, Australia; ³Department of Gastroenterology, The Alfred, Melbourne, Victoria, Australia; ⁴Lung Transplant Service, The Alfred Monash University, Melbourne, Victoria, Australia

2:15 PM - 3:45 PM

CONCURRENT SESSION 15: Controversies in Advanced Heart Failure (Room 302)

Chairs: Luigi Martinelli, MD and Patricia A. Uber, PharmD

2:15 PM Invited Lecture: Targeting the Right Ventricle in Heart Failure: Established Mandates, *Thomas G. DiSalvo, MD, Vanderbilt University Medical Center Nashville, TN*

2:30 PM (183) The Impact of Implantable Cardiac Defibrillator (ICD) on Survival of UNOS Status 2 Candidates for Heart Transplantation (HT) – Analysis of UNOS/OPTN Data 2000-2006; K. Lietz,¹ D. Mancini,¹ ¹Center for Advanced Cardiac Care, Columbia-Presbyterian Medical Center, New York

2:45 PM (184) Utility of the Seattle Heart Failure Model in Patients with Advanced Heart Failure Treated with Implantable Cardioverter Defibrillators and/or Biventricular Pacemakers; C. D'Amico,¹ V. Georgiopolou,¹ A. Kalogeropoulos,¹ G. Giamouzis,¹ P. Anarado,¹ J. Larned,¹ S. Waheed, W. Book, V. Bavikati, S. Laskar, S. Agha, A. Smith, J.D. Vega, J. Butler ¹Emory University School of Medicine, Atlanta

3:00 PM (185) Listing for Cardiac TXP among Adults with Congenital Heart Disease (CHD) in the UNOS Database; R.R. Davies,¹ M.J. Russo,² S.R. Mital,³ A.C. Gelijs,² A.J. Moskowitz,² R.S. Mosca,¹ J.M. Quaegebeur,¹ J.M. Chen,¹ ¹Division of Cardiothoracic Surgery, Children's Hospital of New York-Presbyterian, New York, NY; ²International Center for Health Outcomes and Innovations Research, Columbia University Medical Center, New York, NY; ³Hospital for Sick Children, Toronto, ON, Canada

3:15 PM (186) Role of NT-proBNP and Right Heart Catheterization Measurements in Predicting Outcome of Patients Referred for Heart Transplantation; L. Potena, A. Scalone, F. Grigioni, L. Tomasi, F. Coccolo, G. Magnani, F. Fallani, A. Russo, A. Branzi ¹Institute of Cardiovascular Diseases, University of Bologna, Bologna, Italy

3:30 PM Invited Lecture: Targeting Mitral Regurgitation in Advanced Heart Failure: Established Mandates, *Todd M. Koelling, MD, University of Michigan, Ann Arbor, MI*

2:15 PM - 3:45 PM

CONCURRENT SESSION 16: Predictors of Complications after Pediatric Thoracic Transplant (Room 311)

Chairs: Paul Aurora, MRCP and Yuk M. Law, MD

2:15 PM (187) CMV Causes Intimal Thickening in the Coronary and Systemic Vasculature of Pediatric Heart Transplant Recipients; J.D. Simmonds,¹ M.J. Fenton,¹ H.E. Dawkins,¹ C.A. Dewar,¹ E.A. Ellins,² J.P. Halcox,² M. Burch,¹ ¹Department of Paediatric Cardiology, Great Ormond Street Hospital for Children, London, United Kingdom; ²Department of Vascular Physiology, Institute of Child Health, London, United Kingdom

2:30 PM (188) Coronary Flow Reserve Differentiates Stable from Progressive Transplant Coronary Artery Disease in Pediatric Heart Recipients; C. Tissot,¹ B.A. Pietra,¹ M.M. Boucek,² D.J. Gilbert,¹ D.N. Campbell,¹ M.B. Mitchell,¹ S.M.

Miyamoto,¹ ¹Heart Institute, The Children's Hospital, Denver, CO; ²The Cardiac Center, Joe DiMaggio Children's Hospital, Hollywood, FL

2:45 PM (189) Pediatric Cardiac Allograft Vasculopathy: Early Non-Invasive Detection by Diastolic Impairment Investigated with Tissue Doppler Imaging; E. Raimondi,¹ L. Pasquini,¹ F. Parisi,¹ M. Drago,¹ A. Toscano,¹ V. Di Ciommo,² M. Gagliardi,¹ R. Iacobelli,¹ S.P. Sanders,^{1,1} Dept. of Pediatric Cardiology and Cardiac Surgery, Bambino Gesù Pediatric Hospital, Rome, Italy; ²Dept. of Epidemiology and Statistics, Bambino Gesù Pediatric Hospital, Rome, Italy

3:00 PM (190) Respiratory Viral Infections within One Year after Pediatric Lung Transplant Associated with Decreased Survival; M. Liu,¹ S. Worley,¹ S. Arrigan,¹ P. Aurora,² M. Ballmann,³ D. Boyer,⁴ C. Conrad,⁵ I. Eichler,⁶ O. Elidmir,⁷ S. Goldfarb,⁸ G.B. Mallory, Jr.,⁷ P. Michelson,⁹ P.J. Mogayzel, Jr.,¹⁰ D. Parakininds,¹¹ G. Visner,⁴ S. Sweet,¹² A. Faro,¹² M. Michaels,¹³ L.A. Danziger-Isakov,¹ ¹Cleveland Clinic, Cleveland; ²Great Ormond Street Hospital Institute of Child Health, London, United Kingdom; ³Hannover Medical School, Hannover, Germany; ⁴Harvard University Boston Children's Hospital, Boston; ⁵Stanford University, Palo Alto; ⁶Medical University of Vienna, Vienna, Austria; ⁷Baylor College of Medicine Texas Children's Hospital, Houston; ⁸Children's Hospital of Philadelphia, Philadelphia; ⁹Duke University, Durham; ¹⁰The Johns Hopkins Medical Institutions, Baltimore; ¹¹Medical College of Wisconsin Children's Hospital of Wisconsin, Milwaukee; ¹²Washington University St. Louis Children's Hospital, St. Louis; ¹³Children's Hospital of Pittsburgh, Pittsburgh

3:15 PM (191) The Renin Angiotensin Genotype: A Risk Factor for Renal Insufficiency in Patients Undergoing Cardiac Transplantation; S.R. Auerbach,¹ C. Manliot,³ S. Reddy,¹ B. McCrindle,³ J.M. Chen,² L.J. Addonizio,¹ W.K. Chung,⁴ S. Mital,³ ¹Pediatric Cardiology, Columbia University, Morgan Stanley Children's Hospital of New York, New York, NY; ²Pediatric Cardiac Surgery, Columbia University, Morgan Stanley Children's Hospital of New York, New York, NY; ³Pediatric Cardiology, University of Toronto, The Hospital for Sick Children, Toronto, ON, Canada; ⁴Genetics, Columbia University, Morgan Stanley Children's Hospital of New York, New York, NY

3:30 PM (192) Socioeconomic Position and Graft Failure in Pediatric Heart Transplant Recipients; T.P. Singh,¹ K. Gauvreau,¹ E.D. Blume,¹ H. Bastardi,¹ J.E. Mayer,² ¹Cardiology, Children's Hospital Boston, Boston, MA; ²Cardiac Surgery, Children's Hospital Boston, Boston, MA

2:15 PM - 3:45 PM

CONCURRENT SESSION 17: Challenges in Pathology of Thoracic Transplants (Room 310)

Chairs: Charles C. Marboe, MD and Annalisa Angelini, MD

2:15 PM (193) Antibody-Mediated Rejection in Heart Transplantation: More Than Present-or-Absent; A.G. Kfoury,¹ M.E.H. Hammond, G.L. Snow, J. Stehlik, P.W. Fisher, B.B. Reid, J.W. Long, E.M. Gilbert, F.M. Bader, D.G. Renlund ¹U.T.A.H. Cardiac Transplant Program, Salt Lake City, UT

2:30 PM (194) Validation of a Thrombosis/Activation (TA) Score as an Early Biomarker for Atherothrombosis in Heart Transplant Patients; C.A. Labarrere,¹ J.R. Woods,¹ J.W. Hardin,² G.L. Campana,¹ M.A. Ortiz,¹ M.J. Sosa,¹ C.L. Walker,¹ D.E. Pitts,³ J.A. O'Donnell, D.A. Hormuth ¹Methodist Research Institute, Clarian Health Partners, Indianapolis, IN; ²Epidemiology and Biostatistics, University of South Carolina, Columbia, SC; ³Krannert Institute of Cardiology, Indianapolis, IN

2:45 PM (195) Integrin Profile Changes after Left Ventricular Assist Device Support; J. van Kuik,¹ M.F.M. van Oosterhout,¹ W. Sohns,¹ E. Siera,¹ D.F. van Wichen,¹ N. de Jonge,² M.E.I. Schipper,¹ R.A. de Weger,¹ ¹Pathology, University Medical Center, Utrecht, Netherlands; ²Heart Lung Center, University Medical Center, Utrecht, Netherlands

3:00 PM (196) Variability in the Pathologic Interpretation of Trans-Bronchial Lung Biopsy after Lung Transplantation. Clinical Implications; S.M. Arcasoy,¹ C. Marboe,¹ S. Keshavjee,² H.D. Tazelaar,³ J.S. Wilt,¹ P.A. Corris,⁴ D. Weill,⁵ K.R. McCurry,⁶ D. Davis,⁷ J.G. Golden,⁸ M. Strueber,⁹ S. Sweet,¹⁰ P. Jaksch,¹¹ M. Budev,¹² M. Mulligan,¹³ D.B. Erasmus,¹⁴ E.P. Trulock,¹⁰ M. Zamora,¹⁵ I. Mahmood,¹⁶ J. Phillips,¹⁶ J. Prentice,¹⁶ K.C. Fang,¹⁶ G. Berry,⁵ ¹Lung Transplantation Program, Columbia University Medical Center, New York, NY; ²Division of Thoracic Surgery, Toronto General Hospital, Toronto, ON, Canada; ³Department of Pathology, Mayo Clinic, Scottsdale, AZ; ⁴University of New Castle, New Castle, United Kingdom; ⁵Stanford University, Stanford, CA; ⁶University of Pittsburgh, Pittsburgh; ⁷Duke University, Durham, NC; ⁸University of California, San Francisco, CA; ⁹Hannover Medical School, Hannover, Germany; ¹⁰Washington University, St. Louis, MO; ¹¹University Hospital, Vienna, Austria; ¹²Cleveland Clinic Foundation, Cleveland, OH; ¹³University of Washington, Seattle; ¹⁴Mayo Clinic Jacksonville, Jacksonville, FL; ¹⁵University of Colorado, Denver, CO; ¹⁶XDx, Brisbane, CA

3:15 PM (197) FOXP3-Expressing T-Regulatory Cells Increase with the Severity of Inflammation and Allograft Rejection in Heart Transplants; E.A. Hamad,¹ M. Zeltsman,² J.L. Farber,² P.J. Mather,¹ ¹Medicine, Thomas Jefferson University, Philadelphia, PA; ²Pathology, Thomas Jefferson University, Philadelphia, PA

3:30 PM Invited Lecture: ISHLT Classification for Diagnosis of Acute Rejection in the Heart: The Reality of Daily Use, *Gayle L. Winters, MD, Brigham and Women's Hospital, Boston, MA*

3:45 PM – 4:15 PM

Coffee Break (Exhibit Hall A)

4:15 PM - 5:45 PM

CONCURRENT SESSION 18: Complications of Circulatory Support (Ballrooms A-C)

Chairs: Christof Schmid, MD and Stephen Tsui, MD, FRCS

4:15 PM (198) Renal Dysfunction before Ventricular Assist Impacts Renal Function Post-Transplant, Despite Improvements in Renal Function during Ventricular Support; *J.J. Teuteberg,¹ J. Noyack,² M. Shullo,³ M.A. Simon,¹ L. Kathleen,⁴ J. Coyne,⁴ M. Siegenthaler,⁴ K. McCurry,⁴ D. McNamara,¹ R. Kormos,⁴ ¹Cardiovascular Institute, University of Pittsburgh, Pittsburgh, PA; ²School of Medicine, University of Pittsburgh, Pittsburgh, PA; ³Department of Pharmacy and Therapeutics, University of Pittsburgh, Pittsburgh, PA; ⁴Heart, Lung and Esophageal Institute, University of Pittsburgh, Pittsburgh, PA*

4:30 PM (199) Strategies To Reduce the Incidence of LVAD-Related Infections; *E. Jweied,¹ L. Joyce,¹ K. Liao,¹ R. John,¹ ¹Division of Cardiothoracic Surgery, University of Minnesota, Minneapolis, MN*

4:45 PM (200) Aortic Valve/Root Thrombosis with Continuous Flow Left Ventricular Assist Devices; *R.A. Khodanerdian,¹ N.O. Mason,¹ S.C. Horton,¹ C. Hanny,¹ M. Bonnell,¹ B. Rasmusson,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT*

5:00 PM (201) Preoperative MELD Score Predicts LVAD Operative Transfusion Requirements and Postoperative Complications; *J.C. Matthews,¹ F.D. Pagani,² J.W. Haft,² T.M. Koelling,¹ K.D. Aaronson,¹ ¹Internal Medicine, Division Cardiovascular Medicine, University of Michigan, Ann Arbor, MI; ²Section of Cardiac Surgery, University of Michigan, Ann Arbor, MI*

5:15 PM (202) Incidence of Infection Following HeartMate I and HeartMate II Left Ventricular Assist Device Implantation; *J.M. Schaffer,¹ E.S. Weiss,¹ N.D. Patel,¹ S.D. Russell,² A.S. Shah,¹ J.V. Conte,¹ ¹Division of Cardiac Surgery, Department of Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD; ²Division of Cardiology, Department of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD*

5:30 PM (203) Right Ventricular Failure (RVF) in Patients with Continuous Flow Left Ventricular Assist Devices (LVAD); *R.L. Kormos,¹ J. Teuteberg,² S.D. Russell,³ T. Massey,⁴ D. Feldman,⁵ N. Moazami,⁶ D.J. Farrar,⁷ C. Milano,⁸ ¹Heart Lung and Esophageal Institute, University of Pittsburgh, Pittsburgh, PA; ²Cardiovascular Institute, University of Pittsburgh, Pittsburgh, PA; ³Department of Medicine, Johns Hopkins Hospital, Baltimore, MD; ⁴Surgery, University of Rochester, Rochester, NY; ⁵Surgery, Ohio State University, Columbus, OH; ⁶Barnes-Jewish Hospital, St. Louis, MO; ⁷Thoratec Corporation, Pleasanton, CA; ⁸Surgery, Duke University Medical Center, Durham, NC*

4:15 PM - 5:45 PM

CONCURRENT SESSION 19: Clinical Heart Transplantation: Outcomes II (Rooms 304-306)

Chairs: Joseph Stehlik, MD, MPH and Edoardo G. Gronda, MD

4:15 PM (204) Making Sense of Immunosenesence in Older Heart Transplant Recipients; *J.K. Patel,¹ B. Simenhoff,¹ M.M. Kittleson,¹ M.A. Kawano,¹ A. Ardehai,² J.A. Kobashigawa,¹ ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

4:30 PM (205) Long Term Outcome of Heart Transplant in the Elderly; *D. Marelli,¹ J.A. Kobashigawa,¹ M.A. Hamilton,¹ E. Noguchi,¹ J.D. Moriguchi,¹ J.K. Patel,¹ H. Laks,¹ F. Esmailian,¹ R. Beygui,¹ M.D. Plunkett,¹ A. Ardehali,¹ ¹Cardiac Surgery, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*

4:45 PM (206) Selection of Older Donor Hearts with Coronary Angiography Does Not Reduce Mortality or the Prevalence of Graft Atherosclerosis in Heart Transplant Recipients; *A. Jeppsson,¹ S. Dahlman,¹ U. Nystrom,¹ C.-H. Bergh,² V. Sigurdardottir,² F. Nilsson,¹ ¹Cardiothoracic Surgery and Transplantation, Sahlgrenska University Hospital, Gothenburg, Sweden; ²Cardiology, Sahlgrenska University Hospital, Gothenburg, Sweden*

5:00 PM (207) Does Donor Cocaine Use Adversely Impact Outcomes Following Cardiac Transplantation?; J.K. Bhamra,¹ R.L. Kormos,¹ J.J. Teuteberg,¹ Y. Toyoda,¹ M.D. Navoney,¹ M.A. Shullo,¹ K.R. McCurry,¹ C. Bermudez,¹ ¹Heart, Lung Esophageal Surgery Institute, University of Pittsburgh Medical Center, Pittsburgh, PA

5:15 PM (208) Cardiac Transplant Anastomosis and the Need for Permanent Pacemaker Implantation: An Analysis of the United Network for Organ Sharing Database; R.R. Davies,¹ M.J. Russo,² R.A. Sorabella,¹ A.C. Gelijns,² A.J. Mosckowitz,² Y. Naka,¹ J.M. Chen,¹ ¹Cardiothoracic Surgery, Columbia University Medical Center, New York, NY; ²International Center for Health Outcomes and Innovations Research (InCHOIR), Columbia University, New York, NY

5:30 PM (209) Influence of ABO-Compatible Transplantation on Long-Term Outcome in Cardiac Transplant Recipients; A.Z. Aliabadi,¹ D. Dunkler,¹ S.L. Mahr,¹ M.E. Paireder,¹ M. Grömmner,¹ G. Seebacher,¹ D. Zimpfer,¹ E. Wolner,¹ M. Grimm,¹ A. Kocher,¹ A.O. Zuckermann,¹ ¹Department of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria

4:15 PM - 5:45 PM

CONCURRENT SESSION 20: Antibodies, Cells and Cirrhosis in Lung Transplantation (Room 312)

Chairs: Laurie D. Snyder, MD and Annette Boehler, MD

4:15 PM (210) Improved Outcome of Lung Transplantation in Highly Sensitized Recipients; R.Y. Kremer,¹ S. Keshavjee,¹ C. Gutierrez,¹ L. Singer,¹ T. Waddel,¹ M. de Perrot,¹ A. Pierre,¹ M. Hutcheon,¹ C.-W. Chow,¹ K. Tinckham,¹ D. Barth,¹ C. Chaparro,¹ ¹Lung Transplant Program, University of Toronto, Toronto, ON, Canada

4:30 PM (211) False Negative Virtual Crossmatch in Lung Transplantation; K. Parekh,² E. Field,¹ N. Zavazava,¹ M. Iannettoni,² B. Peters,¹ J. Klesney-Tait,¹ ¹Internal Medicine, University of Iowa Hospitals and Clinics, Iowa City, IA; ²Cardiothoracic Surgery, University of Iowa Hospitals and Clinics, Iowa City, IA

4:45 PM (212) An Analysis of 2697 Transbronchial Biopsies: Is Lymphocytic Bronchiolitis a Marker of Acute Rejection?; C.M. Burton,¹ J. Carlsen,¹ M. Iversen,¹ C.B. Andersen,² ¹Department of Cardiology, Rigshospitalet, Copenhagen, Denmark; ²Department of Pathology, Rigshospitalet, Copenhagen, Denmark

5:00 PM (213) A Multivariate Analysis on the Association between CD4+CD25^{high} Peripheral Treg Cells and Clinical and Functional Variables; F. Meloni,¹ C. Tinelli,² N. Solari,¹ M. Morosini,¹ P. Draghi,¹ M. Viganò,³ A.M. Fietta,¹ ¹Department of Haematological Pneumological Cardiovascular Sciences, Section of Pneumology, University of Pavia IRCCS San Matteo Foundation, Pavia, Italy; ²Unit of Clinical Epidemiological and Biometry, University of Pavia IRCCS San Matteo Foundation, Pavia, Italy; ³Department of Cardiac Surgery, University of Pavia IRCCS San Matteo Foundation, Pavia, Italy

5:15 PM (214) Retrospective Case Control Study Comparing Outcomes Post-Lung Transplantation in Cystic Fibrosis Patients with and without Cystic Fibrosis-Related Liver Cirrhosis; E.F. Nash,¹ A.S. Coonar,¹ P.R. Durie,² L.G. Singer,¹ S. Keshavjee,¹ C. Chaparro,¹ ¹Lung Transplant Program, University Health Network, University of Toronto, Toronto, ON, Canada; ²Division of Gastroenterology and Nutrition, Hospital for Sick Children, Toronto, ON, Canada

5:30 PM (215) Lung Transplantation Is Not Contraindicated in Patients on Everolimus; M.A. Malouf,¹ L. Singleton,¹ A.R. Glanville,¹ ¹Lung Transplant Unit, St. Vincents Hospital, Sydney, NSW, Australia

4:15 PM - 5:45 PM

CONCURRENT SESSION 21: Pre-Transplant Psycho-Social Adaptation with the Post Transplant Quality of Life (Room 302)

Chairs: Fabienne Dobbels, MS, PhD and Kevin Carney, RN, CCTC

4:15 PM (216) Quality of Life and Functional Outcomes of Patients Undergoing Lung Transplantation for Pulmonary Fibrosis; D. Lien, M. Loadman, J. Holman, K. Jackson, J. Mullen, K. Stewart, D. Modry, K.-L. Visscher, J. Weinkauff, Lung Transplant Program, University of Alberta, Edmonton, AB, Canada

4:30 PM (217) Caregivers of Lung Transplant Recipients Exhibit High Risk for Psychological Symptoms; C.J. Gries,¹ R.A. Engelberg,¹ J.R. Curtis,¹ J.D. Edelman,¹ G. Raghu,¹ M.S. Mulligan,² C.H. Goss,¹ ¹Medicine, University of Washington, Seattle, WA; ²Surgery, University of Washington, Seattle, WA

4:45 PM (218) Perceived Quality of Life of Children after Successful Bridging to Transplant; J. Wray,¹ T. Lunnon-Wood,¹ E. Smith,¹ K. Brown,¹ M. Burch,¹ ¹Cardiothoracic Transplantation, Great Ormond Street Hospital for Children NHS Trust, London, United Kingdom

5:00 PM (219) Adverse Family Social Circumstances and Long-Term Outcome after Paediatric Cardiac Transplant; R. Ramiah,¹ J. Wray,¹ T. Lunnon Wood,¹ M. Fenton,¹ M. Burch,¹ K. Brown,¹ ¹Cardiac Unit, Great Ormond Street Hospital, London, United Kingdom

5:15 PM (220) Quality of Life in Adult Survivors Greater Than 10 Years Post Pediatric Heart Transplantation: A Pilot Study; R.A. Petroski,¹ K.L. Grady,² C. Sullivan,¹ S. Rodgers,¹ C.L. Backer,¹ E. Pahl,¹ ¹Cardiology and CV Surgery, Children's Memorial Hospital, Northwestern Feinberg School of Medicine, Chicago, IL; ²Cardiothoracic Surgery, Northwestern University, Feinberg School of Medicine, Chicago, IL

5:30 PM (221) Comparison of Survival and Costs between Transplantation and Medical Treatment of End Stage Heart Failure; V.S. Vaidya,¹ M.V. Yajnik,¹ P. Heidenreich,² M.A. Kawano,¹ A.S. Vaidya,¹ J.K. Patel,¹ M.M. Kittleson,¹ A.K. Ankrom,¹ A. Ardehali,³ J.A. Kobashigawa,¹ ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiology, Stanford School of Medicine, Stanford, CA; ³Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA

4:15 PM - 5:45 PM

CONCURRENT SESSION 22: Management of Emerging Infection in Heart & Lung Transplantation (Room 311)

Chairs: Robyn L. Boedefeld, MD and Margaret M. Hannan, MD

4:15 PM (222) Atypical Mycobacteria in Lung Transplant Recipients; A.K. Lau,¹ R.K. Elwood,² J.M. Wilson,¹ J. Yee,³ R.D. Levy,¹ ¹Department of Respiriology, University of British Columbia, Vancouver, BC, Canada; ²Division of Tuberculosis Control, British Columbia Centre for Disease Control, Vancouver, BC, Canada; ³Department of Surgery, University of British Columbia, Vancouver, BC, Canada

4:30 PM (223) Use of an Immune Monitoring Assay To Distinguish between Fungal Colonization and Fungal Disease in Lung Transplant Recipients; S. Husain,¹ J. Pilewski,¹ K. Spichy,¹ D. Zaldonis,¹ M. Schuetz,¹ M. Zahorchek,¹ M.E. Carey,¹ R. Kowalski,² D. Post,² J. Britz,² K. McCurry,¹ A. Zeevi,¹ ¹Division of Infectious Diseases, Transplant Infections, Pathology and Surgery, University of Pittsburgh, Pittsburgh, PA; ²Clinical Studies, Cylex Inc., Columbia, MD

4:45 PM (224) Fungal Infections in Pediatric Lung Transplant Recipients: Colonization and Invasive Disease; M. Liu,¹ S. Worley,¹ G.B. Mallory, Jr.,² J. Roberston,² M.G. Schechter,² O. Elidemir,² L.A. Danziger-Isakov,¹ ¹Cleveland Clinic Cleveland Clinic Lerner College of Medicine, Cleveland; ²Baylor College of Medicine Texas Children's Hospital, Houston

5:00 PM (225) Safe Management of Posaconazole-Tacrolimus Interaction in Cystic Fibrosis Lung Transplant Patients (CF); E.M. Billaud,^{1,3} P. Chevalier,² M. Berge,¹ R. Guillemain,² M. Benammar,¹ C. Amrein,² A. Moriceau,¹ V. Boussaoud,² ¹Pharmacology, APHP, Hopital Europeen Georges Pompidou, Paris, France; ²Cardiovascular Surgery, APHP, Hopital Europeen Georges Pompidou, Paris, France; ³Paris Descartes, Paris, France

5:15 PM (226) Use of Posaconazole, a New Broad Spectrum Triazole Antifungal, in Lung Transplantation; D.C. Chambers,¹ L.K. Nguyen,¹ C.H. Heath,² E. Gabbay,¹ M. Musk,¹ F. Kermeen,³ P.M. Hopkins,³ ¹Western Australian Lung Transplant Program, Royal Perth Hospital, Perth, Western Australia, Australia; ²Department of Microbiology, Royal Perth Hospital, Perth, Western Australia, Australia; ³Queensland Lung Transplant Program, The Prince Charles Hospital, Brisbane, QLD, Australia

5:30 PM (227) Oral Voriconazole Fails To Prevent Invasive Aspergillus Infection in Lung Transplant Recipients; P.M. Hopkins,¹ F. Kermeen,¹ K. McNeil,¹ ¹Queensland Lung Transplant Unit, The Prince Charles Hospital, Brisbane, Queensland, Australia

4:15 PM - 5:45 PM

CONCURRENT SESSION 23: Immunosuppression: Lessons from Animal Studies (Room 310)

Chairs: Angus W. Thomson, PhD, D.SC and Kimberly L. Gandy, MD, PhD

4:15 PM (228) Optimizing Aerosolized Tacrolimus To Prevent Cellular and Humoral Rejection; S. Schrepfer,¹ T. Deuse,¹ J. Fink,² M. Haddad,³ R.C. Robbins,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA; ²Nektar Therapeutics, Mountain View, CA; ³Clinical Chemistry, University Hospital Hamburg, Hamburg, Germany

4:30 PM (229) Novel Immunosuppression: R348, a JAK3- and Syk-Inhibitor, for Prevention of Acute Allograft Rejection; T. Deuse,¹ G. Hoyt,¹ J.A. Govaert,¹ V. Taylor,² E. Masuda,² E. Herlaar,² G. Park,² D. Carroll,² M.P.

Pelletier,¹ R.C. Robbins,¹ S. Schrepfer,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA; ²Rigel Pharmaceuticals, South San Francisco, CA

4:45 PM (230) Effect of Mycophenolic Acid and Tacrolimus on Mesenchymal Stem Cells from the Human Heart; *M.J. Hoogduijn,¹ A.M. Peeters,¹ S.S. Korevaar,¹ A.H. Balk,² L.P. Maat,² W. Weimar,¹ C.C. Baan,¹ ¹Internal Medicine, Erasmus Medical Center, Rotterdam, Netherlands; ²Thoracic Center, Erasmus Medical Center, Rotterdam, Netherlands*

5:00 PM (231) Combined MMP Inhibition and Azithromycin Is Effective in Bronchiolitis Obliterans Treatment: An Experimental Lung Transplant Study; *S. Aharinejad,^{1,2} K. Krenn,^{2,3} P. Paulus,² N. Sela,² D. Kovatchki,² S. Taghavi,¹ W. Klepetko,¹ ¹Dept. of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Lab. for Cardiovasc. Research, Center for Anatomy and Cell Biology, Medical University of Vienna, Vienna, Austria; ³Dept. of Internal Medicine II, Medical University of Vienna, Vienna, Austria*

5:15 PM (232) Simvastatin Treatment Inhibits the Development of Obliterative Airway Disease in Rat Tracheal Allografts; *J.M. Tikkanen,¹ A.I. Nykänen,¹ M. Hollmén,¹ R. Krebs,¹ K.B. Lemström,¹ ¹Transplantation Laboratory, University of Helsinki, Helsinki University Central Hospital, Helsinki, Finland*

5:30 PM (233) The Prevention of Acute Rejection with a Novel JAK Inhibitor; *W. Stein,¹ S. Schrepfer,¹ K. Van Der Bogt,¹ K. Kiely,¹ M. Pelletier,¹ H. Li,² B. Chang,² V. Taylor,² R. Robbins,¹ ¹Cardiothoracic Surgery, Stanford University, Stanford, CA; ²Rigel Pharmaceuticals, South San Francisco, CA*

5:45 PM - 6:45 PM

GENERAL POSTER SESSION II (Exhibit Hall A)

WINE AND CHEESE EXHIBIT RECEPTION (Exhibit Hall A)

(234) Novel Serum Biomarkers in Heart Failure Patients Undergoing Cardiac Transplantation; *S. Aharinejad,^{1,2} O. Andrukhova,² K. Krenn,^{2,3} R. Schaefer,² C. May,² A. Zuckermann,¹ E. Wolner,¹ M. Grimm,¹ ¹Dept. of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Lab. for Cardiovasc. Research, Center for Anatomy and Cell Biology, Medical University of Vienna, Vienna, Austria; ³Dept. of Internal Medicine II, Medical University of Vienna, Vienna, Austria*

(235) Baseline and 6 Months B-Type Natriuretic Peptide Changes Are Independent Predictors of Events in Patients with Advanced Heart Failure Awaiting for Cardiac Transplantation; *C. Campana,¹ G. Alessandrino,¹ M. Pasotti,¹ C. Klersy,² R. Albertini,³ G. Magrini,¹ S. Ghio,¹ L. Tavazzi,¹ ¹Cardiology, Fondazione IRCCS Policlinico San Matteo, Pavia, Lombardia, Italy; ²Clinical Epidemiology and Biometry Service, Fondazione IRCCS Policlinico San Matteo, Pavia, Lombardia, Italy; ³Laboratory of Clinical Chemistry, Fondazione IRCCS Policlinico San Matteo, Pavia, Lombardia, Italy*

(236) Risk Factors for Acute Renal Failure Requiring Hemodialysis Immediately after Heart Transplantation; *E. Gude,¹ A.K. Andreassen,¹ L. Gullestad,¹ S. Arora,¹ A. Hartmann,² T. Leivestad,³ O.R. Geiran,⁴ S. Simonsen,¹ ¹Dept of Cardiology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ²Dept of Medicine, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ³Dept of Immunology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ⁴Dept of Thoracic and Cardiovascular Surgery, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway*

(237) Clinical Usefulness of an Implantable Thoracic Impedance Monitoring and Alert System; *F. Oliva,¹ M. Landolina,² G. Vergara,³ G. Zanotto,⁴ A. Varbaro,⁵ M. Frigerio,¹ ¹U.O. Insufficienza Cardiaca e Scopenso, Ospedale Niguarda Cà Granda, Milano, Italy; ²U.O. Elettrofisiologia ed Elettrostimolazione, IRCCS Policlinico San Matteo, Pavia, Italy; ³U.O. Cardiologia, Presidio Ospedaliero Santa Maria del Carmine, Rovereto, Italy; ⁴U.O. Cardiologia, Ospedale Civile Maggiore di Borgo Trento, Verona, Italy; ⁵Medtronic Italia Spa, Sesto san Giovanni, Italy*

(238) Oxygen Uptake Efficiency Slope Correlates with Other Prognostic Variables in Heart Failure; *S.G. Miriuka,¹ D.H. Delgado,² M. Walker,² S. Carson,² H.J. Ross,² ¹Departamento de Cardiologia, FLENI, Buenos Aires, Argentina; ²Department of Cardiology, Toronto General Hospital, Toronto, Canada*

(239) A Decline in the VE/VCO₂ Slope from Anaerobic Threshold to Peak Exercise Predicts Short Term Need for LVAD or Heart Transplant; *A.L. Nutter,^{1,3} M.S. Slaughter,² M.A. Silver,^{1,2} ¹Heart Failure Institute, Advocate Christ Medical Center, Oak Lawn, IL; ²Heart Transplant and Mechanical Circulatory Support Programs, Advocate Christ Medical Center, Oak Lawn, IL; ³College of Engineering, University of Iowa, Iowa City, IA*

(240) Evaluation of the Seattle Heart Failure Model in 150 LVAD Recipients; *S.K. Prakash,¹ W.C. Levy,² B. Radovancevic,³ O.H. Frazier,³ R.C. Bogaev,^{1,3} ¹Department of Medicine, Section of Cardiology, Baylor College of*

Medicine, Houston, TX; ²Cardiopulmonary Transplantation, Texas Heart Institute, Houston, TX; ³Department of Medicine, Section of Cardiology, University of Washington, Seattle, WA

(241) Outcomes of Patients Declined for Cardiac Allograft Transplantation; L. Halaweish,¹ D. Taylor,³ R. Starling,³ G. Gonzalez-Stawinski,² ¹School of Medicine, Case Western Reserve University, Cleveland, OH; ²Thoracic and Cardiovascular Surgery, Cleveland Clinic, Cleveland, OH; ³Kaufman Center for Heart Failure, Cleveland Clinic, Cleveland, OH

(242) Validation of a Cutoff Value on Echo Doppler To Replace Right Heart Catheterization during Pre Transplant Pulmonary Hypertension Evaluation. The Impact of a Noninvasive Study; A.F. Freitas, Jr.,¹ F. Bacal,¹ L.F.P. Moreira,¹ C.P. Silva,¹ S. Mangini,¹ R. Honorato,¹ J.L. Oliveira, Jr.,¹ A.I. Fiorelli,¹ R.M.D. Carneiro,¹ N.A.G. Stolf,¹ E.A. Bocchi,¹ ¹Heart Failure Department, Heart Institute (InCor), University of Sao Paulo Medical School, Sao Paulo, SP, Brazil

(243) Survival in Men and Women with Left Ventricular Ejection Fraction Lower Than 30% Referred for Orthotopic Heart Transplantation; S.M. Yala,¹ M. Cadeiras,¹ D.M. Mancini,¹ Y. Naka,¹ E.V. Giardina,¹ M.C. Deng,¹ ¹Columbia University, New York

(244) Velocity Vector Imaging To Quantify Regional Left Ventricular Function in Heart Transplantation; E. Osto,¹ F. Tona,¹ A. Bortolami,² A. Ramondo,¹ A. Angelini,³ G. Gerosa,² S. Iliceto,¹ ¹Cardiology, University of Padova, Padova, Italy; ²Cardiovascular Surgery, University of Padova, Padova, Italy; ³Cardiovascular Pathology, University of Padova, Padova, Italy

(245) Acute Cellular Rejection Is Associated with the Development of Cardiac Allograft Vasculopathy; E. Raichlin,¹ W.K. Kremers,¹ R.J. Rodeheffer,¹ R.P. Frantz,¹ A.L. Clayell,¹ N.L. Pereira,¹ J.A. Wagner,¹ P.S. Henke, C.G. McGregor,¹ R.C. Daly,¹ B.S. Edwards,¹ S.S. Kushwaha,¹ ¹William J. Von Liebig Transplant Center, Mayo Clinic, Rochester, MN

(246) Non-Superiority of Cytolytic Induction Therapy on Outcomes in De-Novo Heart Transplantation: A Single Center's Experience; J.C. Mendez,¹ B.A. Pisani,¹ A. Majerowski,¹ M. Cook,¹ A. Bangash,¹ A.J. Anderson,¹ A.J. Tector,¹ ¹Heart Transplant Program, Aurora St. Luke's Medical Center, Milwaukee, WI

(247) Decreased Incidence of Acute Cardiac Allograft Rejection in Combined Heart and Liver Transplant Recipients; J. Jahanyar,¹ M. Loebe,¹ C. Orrego,² J.A. Goss,¹ B. Bruckner,² R. Celis,² M.M. Koerner,² K.A. Youker,² G.P. Noon,¹ G. Torre-Amione,² ¹Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX; ²Methodist DeBakey Heart Center, The Methodist Hospital, Houston, TX

(248) Tricuspid Valve Regurgitation (TR) after Heart Transplantation Using the Bicaval Anastomosis Technique; D. Marelli,¹ J. Kobashigawa,¹ R. Beygui,¹ F. Esmailian,¹ H. Laks,¹ M. Plunkett,¹ A. Ardehali,¹ ¹Cardiac Surgery, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA

(249) Anemia Is a Risk Factor for Survival after Cardiac Transplantation; A.Z. Aliabadi,¹ D. Dunkler,¹ G. Seebacher,¹ S. Roedler,¹ E. Wolner,¹ M. Grimm,¹ A.O. Zuckermann,¹ ¹Department of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria

(250) WITHDRAWN

(251) Importance of Tricuspid Annuloplasty at the Time of Heart Transplantation; A.M. Borkon,¹ A. Kao,¹ G. Zorn,¹ R.S. Stuart,¹ E. Daon,¹ A. Pak,¹ K. Allen,¹ T. Stevens,¹ A. Magalski,¹ S. Lawhorn,¹ N. Long,¹ K. St. Clair,¹ B. Walker,¹ ¹Cardiac Transplantation, Mid America Heart Institute, Saint Luke's Hospital, Kansas City, MO

(252) Elevated Right Atrial Pressure in Heart Transplant Recipients within the First Year after Transplant Would Be a Predictor of Preceding Renal Insufficiency; T.S. Kato,¹ M. Yanase,¹ N. Oda,¹ A. Mano,¹ K. Hashimura,¹ T. Funatsu,² J. Kobayashi,² K. Komamura,¹ S. Kitamura,² T. Nakatani,³ ¹Department of Cardiovascular Medicine, National Cardiovascular Medicine, Suita, Japan; ²Department of Cardiovascular Surgery, National Cardiovascular Medicine, Suita, Japan; ³Department of Organ Transplant, National Cardiovascular Medicine, Suita, Japan

(253) Multiorgan Transplantation: Early and Long-Term Outcome in Combined Heart and Kidney Transplantation. Experience a Single Center; E. Raichlin,¹ R.C. Daly,¹ C.G. McGreagor,¹ W.K. Kremers,¹ S.S. Kushwaha,¹ A.L. Clavel,¹ R.P. Frantz,¹ R.J. Rodeheffer,¹ P.S. Henke,¹ J.A. Wagner,¹ N.L. Pereira,¹ B.S. Edwards,¹ ¹William J. Von Liebig Transplant Center, Mayo Clinic, Rochester, MN

- (254) Electrocardiographic Infarct Pattern Early Following Cardiac Transplantation: Prevalence and Prognostic Implication; *G.V. Moukarbel,¹ S. Lee,¹ H. Jneid,¹ K.M. Gonczarek,¹ F.F. Hoyer,¹ S.A. Keck,¹ C.D. Haggan,¹ P.M. Yurchak,¹ M.J. Semigran,¹* *Cardiology, Massachusetts General Hospital, Harvard Medical School, Boston, MA*
- (255) Influence of the Heart Failure Etiology in Heart Transplantation Results in a 22 Years Unicenter Experience; *E.A. Bocchi,¹ F. Bacal,¹ G. Guimaraes,¹ F.D. Cruz,¹ A. Fiorelli,¹ N. Stoffj,¹ R. Chizzolla,¹ V. Issa,¹ S.A. Ferreira,¹ G.C. Souza,¹* *Heart Failure Clinics, Sao Paulo University Medical School, Sao Paulo, Brazil*
- (256) Pacemaker Use Following Heart Transplantation; *M.J. Bates,¹ T. Duese,¹ W.M. Yarbrough,¹ B.A. Reitz,¹ P.E. Oyer,¹ R.C. Robbins,¹ H.R. Mallidi,¹* *Department of Cardiothoracic Surgery, Stanford University, Stanford, CA*
- (257) Heart Transplantation (HTx) after Previous Multiple Cardiac Operations; *E. Spagna,¹ G. Guzzi,¹ V. Tursi,¹ M.C. Albanese,¹ D. Miani,¹ U. Livi,¹* *Dept of CardioThoracic Sciences, University - General Hospital, Udine, Italy*
- (258) Noncardiac Surgery Following Insertion of a Left Ventricular-Assist Device Is Safe; *J.A. Patel,¹ M.A. Van Deusen,¹ S.H. Bailey,¹ G.J. Magovern,¹ D.A. Dean,¹* *Cardiovascular and Thoracic Surgery, Allegheny General Hospital, Pittsburgh, PA*
- (259) First-in-Human Study of a Novel Implantable Extra-Ascending Aortic Counterpulsation Pump in Patients with End-Stage Heart Failure; *C.S. Hayward,¹ P.N. Ruygrok,² W.S. Peters,² P. Jansz,¹ G. O'Driscoll,³ R.B. Larbalestier,³ J.A. Smith,⁴ B. Ho,⁴ M. Legget,⁴ F.P. Milson,¹* *St Vincent's Hospital, Sydney, Australia; ²Auckland City Hospital, Auckland, New Zealand; ³Royal Perth Hospital, Perth, Australia; ⁴Southern Health Monash Medical Centre, Melbourne, Australia*
- (260) Body Mass Index Can Predict the Prognosis of Patients with Left Ventricular Assist System; *A. Mano,¹ K. Fujita,¹ K. Uenomachi,¹ K. Kazama,¹ M. Katabuchi,¹ K. Wada,¹ N. Terakawa,¹ K. Arai,¹ Y. Hori,¹ Nakatani,¹ S. Kitamura,²* *Department of Organ Transplantation, National Cardiovascular Center, Osaka, Japan; ²Department of Cardiovascular Surgery, National Cardiovascular Center, Osaka, Japan*
- (261) Single Center Experience with the Levitronix CentriMag Circulatory Support System as Short-Term Cardiac Assist in Different Clinical Scenarios; *G. Bruschi,¹ A. Cannata,¹ C.F. Russo,¹ M. Lanfranconi,¹ T. Colombo,¹ F. Milazzo,¹ M. Frigerio,¹ E. Vitali,¹* *"A. De Gasperis" Cardiology and Cardiac Surgery Department, Niguarda Ca' Granda Hospital, Milan, Italy*
- (262) BIVACOR Rotary Bi-Ventricular Assist Device Evaluation Using Epicardial and Intracardiac Echocardiography – Initial Animal In Vivo Experience; *D.G. Platts,¹ D. Timms,¹ J. Fraser,¹ K. McNeil,¹ B. Thompson,¹ K. Wilson,² K. Dunster,² D. Burstow,¹* *Heart Failure and Transplant Unit, The Prince Charles Hospital, Brisbane, Queensland, Australia; ²School of Medicine, University of Queensland, Brisbane, QLD, Australia*
- (263) VentAssist Left Ventricular Assist Device: St Vincent's Hospital Experience; *I.M. Ahmed,¹ P.M. Spratt,¹ P. Jansz,¹ C. Axisa,¹ P. MacDonald,¹ E. Granger,¹* *Department of Cardiothoracic Surgery and Transplantation, St Vincents Hospital, Sydney, NSW, Australia*
- (264) The Association between Body Mass Index and Drive-Line Infections after Left Ventricular Assist Device Implantation; *C.A. Wood,¹ M.D. Thomas,¹ G. O'Driscoll,^{1,2}* *Advanced Heart Failure Cardiac Transplant Service, Royal Perth Hospital, Perth, Western Australia, Australia; ²School of Medicine, University of Notre Dame, Fremantle, Western Australia, Australia*
- (265) Long Term Follow Up with the Impella Recover Left Ventricular Assist Device; *K. Brehm,¹ M.P. Siegenthaler,² C. Hehrlein,³ T. Strecker,⁴ M. Bechtel,⁵ M. Weyand,⁴ H.H. Sievers,⁵ F. Beyersdorf,¹* *Department of Cardiothoracic Surgery, University Medical Center Freiburg, Freiburg, Germany; ²Department of Cardiac Surgery, University of Pittsburgh, Pittsburgh; ³Department of Cardiology, University Medical Center Freiburg, Freiburg, Germany; ⁴Center of Cardiac Surgery, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen, Germany; ⁵Department of Cardiac and Thoracic Vascular Surgery, University of Luebeck, Luebeck, Germany*
- (266) High Sensitivity C-Reactive Protein Predicts Survival in Patients Receiving Mechanical Assist Device Therapy; *J.C. Teeters,¹ W.H. Hallinan,² H.T. Massey,² L. Chen,¹* *Department of Cardiology, University of Rochester Medical Center, Rochester, NY; ²Department of Cardiothoracic Surgery, University of Rochester Medical Center, Rochester, NY*
- (267) ECMO To Salvage Severe Cardiogenic Shock in Advanced Heart Failure and Transplantation; *D. Marelli,¹ J.A. Kobashigawa,¹ J.D. Moriguchi,¹ I. Shuvayev,¹ S.Y. Wong,¹ T. Kahn,¹ J.K. Patel,¹ R. Beygui,¹ F. Esmailian,¹ H. Laks,¹ M.D. Plunkett,¹ A. Ardehali,¹* *Cardiac Surgery, David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA*

- (268) Fungemia in Patients with Long-Term Left Ventricular Assist Devices: A Chronic Problem, but Not the Kiss of Death; M.S. Firstenberg,¹ L.B. Louis,¹ P. Vesco,¹ C.B. Sai-Sudhakar,¹ J. Mangino,² S. Martin,² L. Wellington,² D. Blais,¹ B. Sun,¹ ¹Cardiothoracic Surgery, The Ohio State Medical Center, Columbus, OH; ²Infectious Diseases, The Ohio State Medical Center, Columbus, OH
- (269) Thoratec Implantable Ventricular Assist Device (IVAD): The Papworth Experience; M. Berman,¹ J. Parameshwar,¹ D.P. Jenkins,¹ K. Dhital,¹ C. Lewis,¹ C. Sudarshan,¹ J. Dunning,¹ S.R. Large,¹ S. Tsui,¹ ¹Transplant Unit, Papworth Hospital, Papworth Everard, Cambridge, United Kingdom
- (270) Artificial Pulse with a Continuous-Flow Total Artificial Heart; H.A. Khalil,¹ D.T. Kerr,¹ M.A. Schusterman II,² O.H. Frazier,¹ B. Radovancevic,¹ ¹Cardiovascular Surgical Research Laboratories, Texas Heart Institute at St. Luke's Episcopal Hospital, Houston, TX; ²University of Texas Medical School at Houston, Houston, TX
- (271) Perioperative Alemtuzumab (Campath 1-H) and Plasmapheresis for High-PRA, Positive Lymphocyte-Crossmatch Heart Transplant: A Strategy To Shorten LVAD Support; S.D. Lick,¹ S. Vaidya,² A.C. Kollar,¹ R.A. Vertrees,¹ ¹Surgery, University of Texas Medical Branch, Galveston, TX; ²Tissue Antigen Lab, University of Texas Medical Branch, Galveston, TX
- (272) Outcome in Destination Therapy LVAD Patients Predicted by the Seattle Heart Failure Model (SHFM); C.J. Bishop,¹ L.N. Janicki,¹ D.M. Nelson,¹ C.N. Madsen,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT
- (273) Preformed Antibodies in Pulsatile and Continuous Flow Ventricular-Assist Device Recipients; A.S. Huber,¹ E.N. Sorensen,² T.A. Snyder,³ B.P. Griffith,³ E.D. Feller,⁴ ¹University of Maryland, School of Medicine, Baltimore, MD; ²Clinical Engineering, University of Maryland Medical Center, Baltimore, MD; ³Cardiac Surgery, University of Maryland Medical Center, Baltimore, MD; ⁴Cardiology, University of Maryland Medical Center, Baltimore, MD
- (274) Cumulative Incidence and Pattern of Adverse Events in the First 60 Days Post Ventricular Assist Device Implantation; E.A. Genovese,¹ M.A. Dew,² M.A. Simon,³ J.J. Teuteberg,³ J. Kay,¹ M.P. Siegenthaler,⁴ J.K. Bhamra,⁴ C. Bermudez,⁴ K.L. Lockard,⁴ S. Winowich,⁴ R.L. Kormos,⁴ ¹School of Medicine, University of Pittsburgh, Pittsburgh, PA; ²Psychiatry, Psychology and Epidemiology, University of Pittsburgh, Pittsburgh, PA; ³Cardiovascular Institute, University of Pittsburgh, Pittsburgh, PA; ⁴Heart Lung and Esophageal Institute, University of Pittsburgh, Pittsburgh, PA
- (275) Preferential Improvement in Exercise Time, Oxygen Consumption and Ventilatory Response in Patients Supported with Pneumatic Versus Electric LVADs; S.N. Khan,¹ C.M. Feldman,³ M.S. Slaughter,² M.A. Silver,^{1,2} ¹Heart Failure Institute, Advocate Christ Medical Center, Oak Lawn, IL; ²Heart Transplant and Mechanical Circulatory Support Programs, Advocate Christ Medical Center, Oak Lawn, IL; ³Internal Medicine, Advocate Christ Medical Center, Oak Lawn, IL
- (276) Non Invasive Measures of Right Heart Hemodynamics Associated with Clinical Improvement Post Heartmate II; K.M. Lam,¹ S. Ennis,² T.E. MacGillivray,² K. Crisalli,² J. Cumuso,² M.H. Picard,¹ ¹Cardiology, Massachusetts General Hospital, Boston, MA; ²Cardiac Surgery, Massachusetts General Hospital, Boston, MA
- (277) Effect of Extracorporeal Ventricular Assist Devices on the Risk of Mortality or Retransplantation Following Cardiac Transplantation – An Analysis of the United Network for Organ Sharing (UNOS) Registry; V. Patlolla,¹ D. DeNofrio,¹ R.D. Patten,¹ M.A. Konstam,¹ R. Krishnamani,¹ ¹Division of Cardiology, Tuft's-New England Medical Center, Boston, MA
- (278) A Series of Cardiopulmonary Exercise Test for LVAS Patients, Which Is Combined with Pump Off-Tests, Effectively Predicts Device Explantability; Y. Ogawa,¹ A. Matsumoto,¹ M. Ono,² N. Haga,³ Y. Hirata,¹ S. Takamoto,² R. Nagai,¹ ¹Department of Cardiovascular Medicine, Graduate School of Medicine, University of Tokyo, Tokyo, Japan; ²Department of Cardiothoracic Surgery, University of Tokyo, Tokyo, Japan; ³Department of Rehabilitation, University of Tokyo, Tokyo, Japan
- (279) Clinical Experience Utilizing the Levitronix CentriMag System for Temporary Right Ventricular Mechanical Circulatory Support; J.K. Bhamra,¹ R.L. Kormos,¹ C.A. Bermudez,¹ Y. Toyoda,¹ K.R. McCurry,¹ S.H. Brann,¹ M.P. Siegenthaler,¹ ¹Heart, Lung Esophageal Surgery Institute, University of Pittsburgh Medical Center, Pittsburgh, PA
- (280) Low Likelihood for Developing Cytotoxic Antibodies during Implantation with the CardioWest Total Artificial Heart; P.E. Nolan,¹ R.G. Smith,² M.J. Slepian,³ R.K. Bose,³ P.H. Tsau,³ M.C. Smith,³ D.L. Covington,² J.G. Copeland,³ ¹Pharmacy Practice and Science, University of Arizona, Tucson, AZ; ²Marshall Foundation Artificial Heart Program, University Medical Center, Tucson, AZ; ³Sarver Heart Center, University of Arizona, Tucson, AZ

(281) Acute Left Ventricular Unloading in Dogs with Chronic Heart Failure: Comparison of Hemodynamics and Gene Expression between Intra-Aortic Balloon Counterpulsation and Continuous Aortic Flow Augmentation; *R. Brewer,¹ M. Wang,¹ S. Rastogi,¹ I. Ihsar,¹ A. Jiang,¹ T. Viole,² M.A. Konstam,³ H.N. Sabbah,¹* ¹Departments of Medicine and Surgery, Henry Ford Hospital, Detroit, MI; ²Orqis Medical, Inc., Lake Forest, CA; ³Tufts New England Medical Center, Boston, MA

(282) The DuraHeart™ Left Ventricular Assist System Requires Less Intensive Anticoagulation; *A. El-Banayosy,¹ R. Koerfer,¹ C. Nojiri,²* ¹Thoracic and Cardiovascular Surgery, Heart and Diabetes Center NRW, Bad Oeynhausen, Germany; ²Terumo Heart Inc., Ann Arbor, MI

(283) Use of the Tandem Heart Percutaneous Ventricular Assist System in High-Risk Cardiac Surgery; *I. Gregoric,¹ B. Bruckner,² L. Jacob,¹ S. LaFrancesca,¹ B. Kar,¹ P. Loyalka,¹ M. Loebe,² O.H. Frazier,¹* ¹Cardiopulmonary Transplantation, Texas Heart Institute, Houston, TX; ²DeBakey Heart Center, The Methodist Hospital, Houston, TX

(284) Renal Dysfunction Adversely Affects Outcome after Continuous Flow Left Ventricular Assist Device Implantation; *S.E. Sandner,¹ D. Zimpfer,¹ P. Zrunek,¹ B. Steinlechner,² A. Rajek,² H. Schima,¹ E. Wolner,¹ G.M. Wiesenthaler,¹* ¹Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Cardiothoracic Anesthesia, Medical University of Vienna, Vienna, Austria

(285) Similar Transplant Survival for Non-Recoverable Acute and Chronic Heart Failure Patients Bridged with VADS; *D.J. Goldstein,¹ M.B. Anderson,² A.J. Crumbley III,³ J.A. Elefteriades,⁴ M.M. Madani,⁵* ¹Surgery, Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY; ²Surgery, Robert Wood Johnson Medical Center, New Brunswick, NJ; ³Surgery, Medical University of South Carolina, Charleston, SC; ⁴Surgery, Yale University Medical Center, New Haven, CT; ⁵Surgery, University of California at San Diego Medical Center, San Diego, CA

(286) The Effect of Centrifugal, Axial, and Pulsatile Left Ventricular Assist Device Support on End-Organ Function in Heart Failure Patients; *F. Kamdar,¹ A. Boyle,¹ M. Colvin-Adams,¹ M. Pritzker,¹ E. Missov,¹ K. Liao,¹ L. Joyce,¹ R. John,¹* ¹University of Minnesota, Minneapolis

(287) Routine Left Ventricular Device Exchange?; *L. Lozonschi,¹ N.M. Edwards,¹ M.R. Johnson,² S. Osaki,¹ T. Kohmoto,¹* ¹Department of Cardiothoracic Surgery, University of Wisconsin School of Medicine, Madison, WI; ²Division of Heart Failure and Transplant Cardiology, University of Wisconsin School of Medicine, Madison, WI

(288) Improved Clinical Outcomes Using Bi-Ventricular Assist Devices as Bridges to Transplant in Critically Ill Patients; *M. Kittleson,¹ J. Moriguchi,¹ M. Kwon,² M. Plunkett,² F. Esmailian,² R. Jocsos,² H. Laks,² D. Marelli,² R. Beygut,² S. Davis,¹ A. Ardehali,² J. Patel,¹ J. Kobashigawa,¹* ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA

(289) Differential Slopes of VE/VCO₂ at Anaerobic Threshold and Peak Exercise: A Possible Indicator of Myocardial Recovery with LVAD Support; *S.N. Khan,¹ C.M. Feldman,³ M.S. Slaughter,² M.A. Silver,^{1,2}* ¹Heart Failure Institute, Advocate Christ Medical Center, Oak Lawn, IL; ²Heart Transplant and Mechanical Circulatory Support Program, Advocate Christ Medical Center, Oak Lawn, IL; ³Internal Medicine, Advocate Christ Medical Center, Oak Lawn, IL

(290) Safety of Managing Rotary Blood Pumps with a Mild Anticoagulation Regimen; *A. El-Banayosy,¹ L. Arusoglu,¹ M. Morshuis,¹ L. Kizner,¹ D. Cobaugh,¹ R. Koerfer,¹* ¹Thoracic and Cardiovascular Surgery, Heart and Diabetes Center NRW, Bad Oeynhausen, Germany

(291) Hemocompatibility in Long Term LVAD Support: Continuous vs. Pulsatile Flow; *S.N. Khan,¹ T.J. Horrell,² J.D. Graham,² M.A. Sobieski,¹ M. Silver,¹ M.S. Slaughter,¹* ¹Cardiac Surgery Research and Mechanical Assist Device Program, Advocate Christ Medical Center, Oak Lawn, IL; ²Department of Biomedical Engineering, University of Louisville, Louisville, KY

(292) Application of the CentriMag Pump within a Bridge to Bridge Concept in Cardiogenic Shock Patients; *A. El-Banayosy,¹ M. Morshuis,¹ L. Arusoglu,¹ L. Kizner,¹ D. Roefe,¹ D. Cobaugh,¹ R. Koerfer,¹* ¹Thoracic and Cardiovascular Surgery, Heart and Diabetes Center NRW, Bad Oeynhausen, Germany

6:15 PM – 7:15 PM

Scientific Council on Nursing and Social Sciences (Room 310)

Scientific Council on Pathology and Basic Science (Room 300)

Scientific Council on Heart Failure and Transplant Medicine Meeting (Room 302)

Scientific Council on Pulmonary Transplantation Meeting (Room 311)

6:15 PM – 7:45 PM

SATELLITE SYMPOSIUM 12: Joint ISHLT/AST Symposium: Lessons Learned From Abdominal Organ Transplantation (Room 312)

Chairs: Teresa DeMarco, MD and Howard Eisen, MD

6:15 PM Transplantation in HIV+ Patients: Abdominal Organ Transplantation in HIV + Patients: Is it Feasible? Results from a Multicenter NIH Sponsored Trial, *Peter G. Stock, MD, PhD, University of California at San Francisco, CA*

6:45 PM Novel Immunosuppression Strategies: Lessons Learned from Clinical Trials in Kidney Transplantation, *Flavio Vincenti, MD, University of California at San Francisco, CA*

7:15 PM Progress on the Road to Transplantation Tolerance: The Immune Tolerance Network and CTOT, *Mohamed H. Sayegh, MD, Brigham and Women's Hospital, Boston, MA*

FRIDAY, APRIL 11, 2008

6:30 AM – 6:00 PM

Slide Ready Room Open (Room 301)

7:00 AM – 6:00 PM

Registration Open (Boylston Hallway 3rd Floor)

7:00 AM – 10:00 AM

Mounting of Posters # 419 - 510 (Exhibit Hall A)

Mounting of Mini Oral Posters # 335 - 367 (Exhibit Hall A)

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 6: MCS: Issues and Answers for VAD Coordinators (Rooms 304-306)

Chairs: Peggy S. Blood, RN, MSN and Danaela Roefe, RN

7:00 AM Destination Therapy and Patient Selection: An International Perspective, *Danaela Roefe, RN, Bad Oeynhausen Hospital, Bad Oeynhausen, Germany and Michael Petty, PhD(c), RN, CCNS, CNS, Cardiovascular and Thoracic Clinical Nurse Specialist, University of Minnesota Medical Center, Fairview, Minneapolis, MN*

7:20 AM Mechanical Circulatory Support Programs: Unique Cross-disciplinary Perspectives and Contributions, *Kathleen M. Princer, BSBME, MBA, St. Luke's Medical Center, Milwaukee, WI and Jane MacIver, RN MSc CCN(C), Toronto General Hospital, Toronto, Canada*

7:40 AM Moderated Discussion

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 7: Ventricular Assist Devices and Infection (Room 312)

Chairs: Elaine Billaud, MD and Niall Mahon, MD

7:00 AM The Pathogenesis of LVAD Infection, *Robert F. Padera, MD, PhD, Brigham and Women's Hospital, Boston, MA*

7:15 AM Risk Factors for the Development of VAD Infections, *Bernard M. Kubak, MD, PhD, UCLA Medical Center, Los Angeles, CA*

7:30 AM Are We Making Progress with VAD Infections? *William L. Holman, MD, University of Alabama at Birmingham, AL*

7:45 AM Heart Transplantation in Patients with VAD Infections, *Christian Bermudez, MD, University of Pittsburgh Medical Center, Pittsburgh, PA*

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 8: Selection of High Risk Cardiac Transplant Recipients: How High is Too High? (Room 302)

Chair: David O. Taylor, MD

Case Presentations

Nicholas R. Banner, FRCP, Harefield Hospital, Harefield, United Kingdom

Eric Epailly, MD, C.H. Hopital Civil, Strasbourg, France

Michael Chan, Mbbs, FRCPC, University of Alberta Hospital, Edmonton, Canada

Joseph G. Rogers, MD, Duke Univ Medical Center, Durham, NC

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 9: Core Curriculum: The Pathophysiology of Chronic Allograft Injury (Room 311)

Chairs: John Dark, MB, FRCS and Mark L. Barr, MD

7:00 AM Inflammation Injury and Repair, *John A. Kirby, PhD, Newcastle University, Newcastle, United Kingdom*

7:30 AM Evolving New Targets for Therapy, *Andrew E. Gelman, MD, PhD, Washington University School of Medicine, St. Louis, MO*

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 10: Animal Models of Acute and Chronic Lung Transplant Rejection (Room 310)

Chairs: Michael Mulligan, MD and Jonah Odum, MD, PhD

7:00 AM Pig and Primate Large Animal Models, *James S. Allan, MD, Massachusetts General Hospital, Boston, MA*

7:15 AM Heterotopic Trachea Model, *Mingyao Liu, MD, Toronto General Hospital, Toronto, Canada*

7:30 AM Mouse Orthotopic Lung Transplantation, *Daniel Kreisel, MD, Washington University School of Medicine, St. Louis, MO*

7:45 AM Chimeric Mouse, *Scott M. Palmer, MD, Duke University, Durham, NC*

8:00 AM – 6:00 PM

Press Office Open (Room 308)

8:15 AM - 10:15 AM

PLENARY SESSION (Ballrooms A-C)

Chairs: Robert C. Robbins, MD and Alec Patterson, MD

8:15 AM Pioneer Lecture, *Marc R. Katz MD, Bon Secours Heart & Vascular Institute, Richmond, VA*, will speak on behalf of Pioneer Recipient *Richard R. Lower, MD, Richmond, VA*

8:35 AM Invited Lecture: Organ Injury and Inflammation After Brain Death: Insights from Microarrays, *Philip Halloran, MD, PhD, University of Alberta, Edmonton, Canada*

9:00 AM (293) Featured Abstract: The 1-Year Follow-Up Results of the PROTECT Patient Population Using the Organ Care System; *G. Tenderich,¹ S. Tsui,² A. El-Banayosy,¹ K. Dhital,² S. Schulte-Eistrup,¹ U. Schulz,¹ B. Rosengard,² J. Wallwork,² M. Petrou,³ A. Khaghani,³ C. Knosalla,⁴ O. Grauhan,⁴ R. Hetzer,⁴ R. Koerfer,¹ T. Khayal,⁵ ¹Thoracic and Cardiovascular Surgery, Heart and Diabetes Center North Rhine-Westphalia, Bad Oeynhausen, Germany; ²Cardiothoracic Surgery, Papworth Hospital, Papworth, United Kingdom; ³Royal Brompton and Harefield NHS Trust, Harefield, Middlesex, United Kingdom; ⁴Cardiothoracic and Vascular Surgery, German Heart Institute, Berlin, Germany; ⁵TransMedics, Inc., Andover, MA*

9:10 AM (294) Featured Abstract: Prospective Multi-Center Safety and Effectiveness Evaluation of the Organ Care System Device for Cardiac Use (PROCEED); *K. McCurry,¹ V. Jeevanandam,² T. Mihaljevic,³ G. Couper,⁴ M. Elanwar,⁵ H. Saleh,⁵ A. Ardehali,⁶ ¹Cardiac Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA; ²Cardiothoracic Surgery, University of Chicago Medical Center, Chicago, IL; ³Thoracic Cardiovascular Surgery, Cleveland Clinic, Cleveland, OH; ⁴Cardiac Surgery, Brigham and Women's Hospital, Boston, MA; ⁵TransMedics, Inc., Andover, MA; ⁶Cardiac Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

9:20 AM Invited Lecture: Ischemia-Reperfusion Injury and Allogenicity, *Stefan G. Tullius, MD, Brigham and Women's Hospital, Boston, MA*

9:45 AM (295) Featured Abstract: Acute Cardiac Failure: New French Heart Transplantation Allocation's Rules To Favor Primary Transplant Rather Than VAD Support. A 2-Year Analysis; D.B. Tixier,¹ C. Cantrelle,¹ P. Tuppin,¹ F. Aubin,¹ G. Malaquin,¹ I. Brennetot,¹ P. Romano,¹ B. Loty,¹ ¹Medical and Scientific Department, Agence de la Biomedecine, St Denis La Plaine, France

10:00 AM (296) Featured Abstract: Non Heart Beating Lung Donation: How Big Is the Pool?; D.M. Nijkamp,¹ W. van der Bij,² E.A.M. Verschuuren,² M.B.A. Heemskerk,³ E. de Buijzer,³ M.E. Erasmus,⁴ ¹Department of Surgery, Section Organ Donation, University Medical Center Groningen, Groningen, Netherlands; ²Department of Pulmonary Diseases and Lung Transplantation, University Medical Center Groningen, Groningen, Netherlands; ³Dutch Transplant Foundation, The Hague, Netherlands; ⁴Department of Cardiothoracic Surgery, University Medical Center Groningen, Groningen, Netherlands

10:00 AM – 6:45 PM
Exhibit Hall Open (Exhibit Hall A)

10:15 AM – 10:45 AM
ANNUAL BUSINESS MEETING (Ballrooms A-C)

10:15 AM – 10:45 AM
Coffee Break (Exhibit Hall A)

10:45 AM - 12:15 PM
CONCURRENT SESSION 24: Outcomes Following Circulatory Support (Ballrooms A-C)
Chairs: Yoshifumi Naka, MD, PhD and Salpy V. Pamboukian, MD

10:45 AM (297) The Use of the Interagency Registry for Mechanically Assisted Circulatory Support (INTERMACS) To Generate Objective Performance Criteria (OPCs) for Use in MCS Trials; D.C. Naftel,¹ J.G. Rogers,² J.B. Young,³ T. Baldwin,⁴ E. Chen,⁵ W. Sapirstein,⁵ R.L. Kormos,⁶ D.V. Ascheim,⁷ K.A. Chisholm,⁸ ¹University of Alabama at Birmingham, Birmingham, AL; ²Duke University Medical Center, Durham, NC; ³Cleveland Clinic Foundation, Cleveland, OH; ⁴National Heart Lung and Blood Institute, Bethesda, MD; ⁵Food and Drug Administration, Rockville, MD; ⁶University of Pittsburgh, Pittsburgh, PA; ⁷Columbia University, New York, NY; ⁸University of Arizona Medical Center, Tucson, AZ

11:00 AM (298) Comparison of Clinical Outcomes in Implantable Pulsatile and Continuous Flow Left Ventricular Assist Device Recipients; G. Bruschi,¹ A. Garatti,¹ T. Colombo,¹ C.F. Russo,¹ M. Lanfranconi,¹ A. Cannata,¹ S. Trunfio,¹ F. Milazzo,¹ E. Catena,¹ M. Frigerio,¹ E. Vitali,¹ ¹"A. De Gasperis" Cardiology and Cardiac Surgery Department, Niguarda Ca' Granda Hospital, Milan, Italy

11:15 AM (299) Normalisation of Autonomic Dysfunction in Patients Following Left Ventricular Assist Device Combination Therapy; D. Nunan,¹ G.R. Sandercock,² R.S. George,^{3,4} R.S. Bougard,³ J. Hardy,⁴ A. Khaghani,³ M.H. Yacoub,⁴ D.A. Brodie,¹ E.J. Birks,^{3,4} ¹Research Centre for Society and Health, Buckinghamshire New University, Chalfont St Giles, Buckinghamshire, United Kingdom; ²Biological Sciences, University of Essex, Chelmsford, Essex, United Kingdom; ³Cardiology, Royal Brompton and Harefield NHS Trust, London, United Kingdom; ⁴Heart Science Centre, Royal Brompton and Harefield NHS Trust, London, United Kingdom

11:30 AM (300) Risk Factors for Neurological Events in Long-Term Mechanical Circulatory Support Patients; C.N. Madsen,¹ M.R. Dowdle,¹ B.D. Horne,¹ M.R. Bonnell,¹ A. Kfoury,¹ D. Renlund,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT

11:45 AM (301) Ventricular Assist Device (VAD) Adverse Events (AE's) Effect Not Only VAD Survival but Subsequent Survival after Cardiac Transplantation (CTX); J. Kay,¹ J.J. Teuteberg,² M.A. Simon,² M.P. Siegenthaler,¹ E.A. Genovese,¹ C. Bermudez,¹ J.K. Bhama,¹ M.A. Dew,³ K.L. Lockard,¹ S. Winowich,¹ R.L. Kormos,¹ ¹Heart, Lung and Esophageal Surgery Institute, University of Pittsburgh Medical Center, Pittsburgh, PA; ²Cardiovascular Institute, University of Pittsburgh Medical Center, Pittsburgh, PA; ³Departments of Psychiatry, Psychology and Epidemiology, University of Pittsburgh Medical Center, Pittsburgh, PA

NOON (302) Improved Short-Term Memory with Long-Term LVAD Support; C.N. Madsen,¹ A.M. McKinney,¹ J.R. Childs,¹ R.A. Khodaverdian,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT

10:45 AM - 12:15 PM

CONCURRENT SESSION 25: Can We Predict, Diagnose and Treat Cardiac Rejection and Vasculopathy Before it is too Late? (Rooms 304-306)

Chairs: Andrew J. Boyle, MD and Folke Nilsson, MD, PhD

10:45 AM (303) Hemodynamic Compromise Rejection: Does the Heart Biopsy Influence Outcome?; *J.K. Patel,¹ B. Itagaki,¹ A. Ankrom,¹ M. Kawano,¹ K.K. Kiyosaki,¹ M. Yajnik, A. Ardehali,² J. Kobashigawa,¹ ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

11:00 AM (304) Success of Immune Monitoring with ImmuKnow (Cylex) To Assess Rejection/Infectious Risk in Heart Transplantation; *J.A. Kobashigawa,¹ K.K. Kiyosaki,¹ J.K. Patel,¹ M.M. Kittleson,¹ A. Ardehali,² ¹Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA; ²Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

11:15 AM (305) Soluble HLA-G Is Negatively Associated with Allograft Rejection Following Heart Transplantation; *R. Sheshgiri,¹ V. Rao,¹ L.C. Tumiati,¹ M. Badiwala,¹ E. Tepperman,¹ J. Prodger,¹ D. Ramzy,¹ D.H. Delgado,¹ ¹Heart Transplant Program, Peter Munk Cardiac Centre, Toronto General Hospital, University Health Network, Toronto, ON, Canada*

11:30 AM (306) Coronary Flow Reserve by Contrast-Enhanced Transthoracic Echocardiography Predicts Maximal Epicardial Intimal Thickness in Heart Transplant Patients with Normal Coronary Angiogram; *F. Tona,¹ E. Osto,¹ G. Tarantini,¹ A.L.P. Caforio,¹ A. Angelini,² G. Gerosa,³ S. Iliceto,¹ ¹Cardiology, University of Padova, Padova, Italy; ²Cardiovascular Pathology, University of Padova, Padova, Italy; ³Cardiovascular Surgery, University of Padova, Padova, Italy*

11:45 AM (307) Impaired Coronary Flow Reserve in Heart Transplant Patients with Normal Coronary Angiograms: Predictive Role of Interstitial Fibrosis and Medial Thickening of Intramyocardial Coronary Arteries; *E. Osto,¹ F. Tona,¹ C. Castellani,² A.L.P. Caforio,¹ A. Ramondo,¹ G. Gerosa,³ S. Iliceto,¹ A. Angelini,² ¹Cardiology, University of Padova, Padova, Italy; ²Cardiovascular Pathology, University of Padova, Padova, Italy; ³Cardiovascular Surgery, University of Padova, Padova, Italy*

NOON (308) Correlation between Circulating Endothelial Progenitor Cells and Allograft Rejection in Heart Transplant Patients; *C.J. Sathya,¹ R. Sheshgiri,¹ J. Prodger,¹ L. Tumiati,¹ M. Badiwala,¹ E. Tepperman,¹ J. Lazier,¹ D. Delgado,¹ V. Rao,¹ ¹Heart Transplant Program, Peter Munk Cardiac Centre, Toronto General Hospital, University Health Network, Toronto, ON, Canada*

10:45 AM - 12:15 PM

CONCURRENT SESSION 26: The Long and the Short of Pediatric Immunosuppression and Immunology (Room 312)

Chairs: Michael Burch, MD and Shelley D. Miyamoto, MD

10:45 AM (309) Basiliximab in Pediatric Heart Transplantation: Pre-Implantation Administration Reduces Acute Rejection in the First Year; *N.M. Grundy,¹ J.D. Simmonds,¹ H.E. Dawkins,¹ M. Burch,¹ ¹Department of Paediatric Cardiology, Great Ormond Street Hospital for Children, London, United Kingdom*

11:00 AM (310) Correlation of Steroid Use and Impaired Serological Immunity Against Vaccine Preventable Diseases in Children after Heart- or Heart-Lung Transplantation; *S. Urschel,¹ S. Cremer,³ R. DallaPozza,¹ J. Diterich,¹ C. Schmitz,² B. Reichart,² B.H. Belohradsky,³ H. Netz,¹ ¹Pediatric Cardiology and Intensive Care, Klinikum Grosshadern, Ludwig Maximilians University, Munich, Germany; ²Cardiac Surgery, Klinikum Grosshadern, Ludwig Maximilians University, Munich, Germany; ³Pediatric Immunology and Infectious Disease, Dr. von Haunersches Kinderspital, Ludwig Maximilians University, Munich, Germany*

11:15 AM (311) Assessment of the Cylex® ImmuKnow™ Cell Function Assay in Pediatric Heart Transplant Patients; *J.W. Rossano,¹ S.W. Denfield,¹ E.O. Smith,¹ J.J. Kim,¹ J.F. Price,¹ J.L. Jefferies,¹ J.A. Decker,¹ S.K. Clunie,¹ J.A. Towbin,¹ W.J. Dreyer,¹ ¹Cardiology, Texas Children's Hospital/Baylor College of Medicine, Houston, TX*

11:30 AM (312) Class I and II HLA Sensitization Pre-Transplant by Solid-Phase Assay and Early Outcome after Pediatric Heart Transplantation; *C.S. Almond,¹ D.B. McElhinney,¹ G.E. Piercey,¹ T.P. Singh,¹ I. Wood,² H. Bastardi,¹ F. Fynn-Thompson,¹ E.L. Milford,² E.D. Blume,¹ ¹Cardiology, Boston Children's Hospital, Boston, MA; ²Tissue Typing Laboratory, Brigham and Women's Hospital, Boston, MA*

11:45 AM (313) HLA-Sensitization in Infants after Repair of Hypoplastic Left Heart Syndrome (HLHS) Is Prevented by Use of Glutaraldehyde-Treated Homografts; *B.J. Laing,¹ S.R. Meyer,¹ A.M. Halpin,¹ P.M. Campbell,¹ D.B. Ross,¹ L.J. West,¹ I.M. Rebeyka,¹ ¹University of Alberta, Edmonton, AB, Canada*

NOON (314) Genotypic Variation and Phenotypic Characterization of Granzyme B Gene Polymorphisms; *D.M. Girnita,¹ S.A. Webber,¹ R. Ferrell,¹ M.M. Brooks,¹ S. DeCruo,¹ G. Burckart,² G. Zdanowicz,¹ R. Chinnock,³ C. Canter,⁴ L. Addonizio,⁵ D. Bernstein,⁶ J.K. Kirklin,⁷ D. Naftel,⁷ L. Smith,¹ A.L. Girnita,¹ A. Zeevi,¹ ¹University of Pittsburgh, Pittsburgh, PA; ²University of Southern California, Los Angeles, CA; ³Loma Linda University, Loma Linda, CA; ⁴Washington University, St. Louis, MO; ⁵Columbia University, New York, NY; ⁶Stanford University, Palo Alto, CA; ⁷University of Alabama at Birmingham, Birmingham, AL*

10:45 AM - 12:15 PM

CONCURRENT SESSION 27: Physiology and Assessment of the Pulmonary Hypertensive Patient (Room 302)

Chairs: Robert D. Levy, MD, FRCP(C) and Raymond L. Benza, MD

10:45 AM (315) Calculation of Pulmonary Artery Mean Pressure Using a Mathematical Model and Doppler Data: A Simultaneous Catheter and Doppler Study; *N. Selimovic,¹ B. Rundqvist,¹ S. Petersson,² J. Wallentin,² O. Bech-Hanssen,² ¹Dept. of Cardiology, Sahlgrenska University Hospital, Gothenburg, Sweden; ²Dept. of Clinical Physiology, Sahlgrenska University Hospital, Gothenburg, Sweden*

11:00 AM (316) Survival with Idiopathic Pulmonary Arterial Hypertension Once Criteria for Tx Listing Are Fulfilled for the First Time: Benefits of Transplantation vs. Medical Treatment; *M. Dandel,¹ H.B. Lehmkuhl,¹ S. Mulahasanovic,¹ Y. Weng,¹ C. Knosalla,¹ O. Grauhan,¹ D. Kemper,¹ R. Hetzer,¹ ¹Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany*

11:15 AM (317) REVEAL Registry: Does the LAS Score Underestimate the Risk of Death in IPAH; *R.L. Benza,¹ A.E. Frost,² R.J. Barst,³ A.M. Krichman,⁴ M.D. McGoon,⁵ ¹University of Alabama at Birmingham, Birmingham, AL; ²Baylor College of Medicine, Houston, TX; ³Columbia University College of Physicians and Surgeons, New York, NY; ⁴Duke University Medical Center, Durham, NC; ⁵Mayo Clinic, Rochester, MN*

11:30 AM (318) Cardiopulmonary Exercise Testing in Severe Pulmonary Arterial Hypertension: A More Complete Tool Than Six Minute Walk Test?; *A. Flox Camacho,¹ C. Jimenez Lopez-Guarch,¹ P. Escribano Subias,¹ A. Fernandez Vaqueo,² R. Tello de Meneses,¹ M.J. Ruiz Cano,¹ V. Suberviola Sanchez-Caballero,¹ J. Delgado Jimenez,¹ M.A. Gomez Sanchez,¹ C. Saenz de la Calzada,¹ ¹Cardiology, Hospital Universitario 12 de Octubre, Madrid, Spain; ²Morfology and Physiology, Universidad Europea de Madrid, Villaviciosa de Odon, Madrid, Spain*

11:45 AM (319) NTproBNP in the Assessment of Exercise Tolerance in Severe Pulmonary Arterial Hypertension. What Does It Mean?; *A. Flox Camacho,¹ C. Jimenez Lopez-Guarch,¹ P. Escribano Subias,¹ A. Fernandez Vaquero,² E.A. Lopez Jimenez,³ R. Tello de Meneses,¹ M.J. Ruiz Cano,¹ J. Delgado Jimenez,¹ M.A. Gomez Sanchez,¹ C. Saenz de la Calzada,¹ ¹Cardiology, Hospital Universitario 12 de Octubre, Madrid, Spain; ²Morfology and Physiology, Universidad Europea de Madrid, Villaviciosa de Odon, Madrid, Spain; ³Biochemistry, Hospital Universitario 12 de Octubre, Madrid, Spain*

NOON (320) Right Ventricular Size, Function Hemodynamics Are Poor Predictors of Exercise Performance in Patients with Pulmonary Hypertension; *A. Lala,¹ G. Stevens, M.J. Garcia, J. Sanz, S. Pinney,¹ ¹The Cardiovascular Institute, Mount Sinai Medical Center, New York, NY*

10:45 AM - 12:15 PM

CONCURRENT SESSION 28: Stem Cell Transplantation (Room 311)

Chairs: Roelof de Weger, PhD and Carla C. Baan, PhD

10:45 AM (321) Stem Cell Transplantation for the Ischemic Myocardium: Answering the Basic Questions of Bone Marrow Stromal Cell Migration, Homing and Survival; *S. Schrepfer,¹ T. Deuse,¹ H. Reichenspurner,² R.C. Robbins,¹ M.P. Pelletier,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA; ²Cardiovascular Surgery, University Heart Center, Hamburg, Germany*

11:00 AM (322) Circulating Mesenchymal Stem Cells Are Recruited to Ischemia-Reperfusion Injured Lungs; *J.O. Chan,¹ R. Castanos,¹ Y.-S. Jin,¹ E.L. Kirkman,¹ R.M. Bremner,² V.A. Starnes,¹ M.A. Smith,² ¹Cardiothoracic Surgery, Keck School of Medicine, University of Southern California, Los Angeles, CA; ²Heart and Lung Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ*

11:15 AM (323) Immunosuppressive Therapy Mitigates Murine T-Cell Mediated Rejection of Human Embryonic Stem Cells Following Transplantation; *R.-J. Swijnenburg,¹ S. Schrepfer,¹ J.A. Govaert,¹ F. Cao,² A.Y. Sheikh,¹ M.P.*

Fischbein,¹ R.C. Robbins,¹ J.C. Wu,² ¹Cardiothoracic Surgery, Stanford University, Stanford; ²Cardiovascular Medicine, Radiology, Stanford University, Stanford

11:30 AM (324) Intracardiac Allogeneic Porcine Mesenchymal Stem Cell (MSC) Transplantation only Elicit Neoangiogenesis in Viable Myocardium; A.J. Poncelet,¹ A.-L. Hiel,¹ D. Hermans,¹ P. Camby,¹ P. Gianello,¹ ¹Experimental Surgery Laboratory, Universite Catholique de Louvain, Brussels, Belgium

11:45 AM (325) Mesenchymal Stem Cells Derived from CABG Patient's Senesce by a p38 Dependent Mechanism; M.B. Will,¹ J.C. Mountford,² W.N. Keith,³ A.J. Murday,¹ ¹Department of Cardiac Surgery, Glasgow Royal Infirmary, Glasgow, United Kingdom; ²Section of Experimental Haematology and Haematopoietic Stem Cells, University of Glasgow, Glasgow, United Kingdom; ³Centre for Oncology and Applied Pharmacology, University of Glasgow, Glasgow, United Kingdom

NOON (326) Circulating Stem Cells Engraft the Bronchial Epithelium in Humans after Lung Transplantation; L. May,^{1,2} B. Banerjee,¹ A. Saxena,³ M. Crook,⁴ A. Charles,⁴ A. Kicic,² J. O'Reilly,⁵ D. Ravine,⁵ S.M. Stick,¹ M. Musk,¹ D.C. Chambers,¹ ¹Western Australian Lung Transplant Program, Royal Perth Hospital, Perth, Western Australia, Australia; ²Telethon Institute for Child Health Research, Princess Margaret Hospital, Perth, Western Australia, Australia; ³Western Australian Institute for Medical Research, University of Western Australia, Perth, Western Australia, Australia; ⁴Dept of Histopathology, PathWest, Women's and Children's Health Service, Perth, Western Australia, Australia; ⁵Dept of Haematology, PathWest, Royal Perth Hospital, Perth, Western Australia, Australia

10:30 AM - 12:30 PM

CONCURRENT SESSION 29: Philip K. Caves Award Candidate Presentations (Room 310)

Chairs: Robert L Kormos, MD and Leslie W. Miller, MD

10:30 AM (327) Value of FOXP3 mRNA in Peripheral Blood as Rejection Marker after Miniature Swine Lung Transplantation; N. Satoda,¹ T. Shoji,¹ Y. Wu,² T. Fujinaga,³ F. Chen,³ A. Aoyama,¹ J.T. Zhang,¹ A. Takahashi,¹ T. Okamoto,¹ I. Matsumoto,¹ H. Sakai,¹ T. Manabe,⁴ E. Kobayashi,⁵ S. Sakaguchi,⁶ H. Wada,¹ T. Bando,³ T. Koshiba,² ¹Department of Thoracic Surgery, Kyoto University, Kyoto, Japan; ²Department of Immunology and Cell Biology, Kyoto University, Kyoto, Japan; ³Department of Organ Preservation Technology, Kyoto University, Kyoto, Japan; ⁴Department of Diagnostic Pathology, Kyoto University, Kyoto, Japan; ⁵Organ Replacement Research Center, Jichi Medical School, Shimono, Japan; ⁶Institute for Frontier Medical Sciences, Kyoto University, Kyoto, Japan

10:45 AM (328) Frequency of Regulatory T Cells Is Correlated with Improved Lung Function Early after Lung Transplantation; T. Nakagiri,¹ G. Warnecke,¹ M. Avsar,¹ S. Thissen,¹ B. Kruse,¹ P. Ziehme,¹ M. Okumura,² Y. Sawa,² A.R. Simon,¹ A. Haverich,¹ M. Strüber,¹ ¹Div. of Thoracic and Cardiovascular Surgery, Hannover Medical School, Hannover, Germany; ²Div. of Cardiovascular and Thoracic Surgery, Osaka University, Osaka, Japan

11:00 AM (329) Ex Vivo Expanded Human Treg Inhibit the Development of Transplant Arteriosclerosis in a Humanized In Vivo Model; S.N. Nadig,¹ J. Wieckiewicz,¹ D.C. Wu,¹ G. Warnecke,² W. Zhang,¹ S. Luo,¹ D. Taggart,¹ K.J. Wood,¹ ¹Nuffield Department of Surgery, University of Oxford, Oxford, Oxfordshire, United Kingdom; ²Thoracic and Cardiovascular Surgery, Hannover Medical School, Hannover, Germany

11:15 AM (330) Reconditioning of Donor Lungs after Brain Death Induced Dysfunction; S. Wipper,¹ A. Dupree,¹ J. Lindner,¹ N. Sprathoff,¹ C. Pahrman,¹ H. Reichensperner,¹ F.M. Wagner,¹ ¹Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany

11:30 AM (331) Ex-Vivo Repair and Regeneration of Damaged Human Donor Lungs; M. Cypel,¹ M. Rubacha,¹ S. Hirayama,¹ J. Yeung,¹ K. Torbicki,¹ S. Fischer,¹ M. Anraku,¹ M. Sato,¹ A. Pierre,¹ M. Liu,¹ T.K. Waddell,¹ M. de Perrot,¹ S. Keshavjee,¹ ¹Thoracic Surgery, Toronto Lung Transplant Program, Latner Thoracic Surgery Laboratory, University of Toronto, Toronto, ON, Canada

11:45 AM (332) Upregulated Transforming Growth Factor-B1 Expression and Distribution in Coronary Arterial Wall from Patients with Cardiac Allograft Vasculopathy Versus Ischemic Cardiomyopathy; J. Tang,¹ G. Cui,^{1,2} H. Laks,² S. Yang,² A. Ardehali,² F. Esmailian,² M. Plunkett,² R. Beygui,² D. Marelli,² L. Sen,^{1,2} ¹Medicine, University of California Los Angeles, Los Angeles, CA; ²Surgery, University of California Los Angeles, Los Angeles, CA

NOON (333) Impact of Inosine 5'-Monophosphate Dehydrogenase 1,2 and Multidrug Resistance Protein 2 Genetic Polymorphisms on Mycophenolate Mofetil Related Adverse Events in Pediatric Heart Transplant Patients; E.L. Ohmann,¹ G.J. Burckart,² Y. Chen,² V. Pravica,¹ D.M. Girnita,¹ M.M. Brooks,³ D.W. Mowrey,¹ A. Zeevi,¹ S.A. Webber,¹ ¹School of Medicine, University of Pittsburgh, Pittsburgh, PA; ²School of Pharmacy, University of Southern California, Los Angeles, CA; ³Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

12:15 PM (334) Addition of Anti-CD20 to Therapeutic Anti-CD154 or CsA in Monkeys Inhibits Alloantibody Production and Attenuates CAV; S.S. Kelishadi,¹ T. Zhang,¹ E. Wely,¹ C.J. Avon,¹ T. Stoddard,¹ S. Fresnay,¹ B.N. Nguyen,¹ A.M. Azimzadeh,¹ R.N. Pierson III,¹ *Surgery, University of Maryland Baltimore and Baltimore VAMC, Baltimore, MD*

12:30 PM – 2:00 PM

LUNCH SYMPOSIUM: Preservation Systems for Organ Transplantation (Ballrooms A-C)

Supported by an unrestricted educational grant from Transmedics

Chairs: Robert SD Higgins, MD and Vivek Rao, MD

12:30 PM Overview of Organ Preservation, *William C. Stanley, PhD, University of Maryland, Baltimore, MD*

12:45 PM Warm Blood Perfusion Integration into Clinical Practice, *Stephen SL Tsui, MD, FRCS, Papworth Hospital NHS Trust, Cambridge, United Kingdom*

1:05 PM Cold Ischemic vs. Warm Oxygenated Perfusion: Compare & Contrast, *Robert S. Poston, MD, University of Maryland Med Center, Baltimore, MD*

1:20 PM Ex-vivo Assessment of the Donor Heart: New Opportunities, *Abbas Ardehali, MD, UCLA School of Medicine, Los Angeles, CA*

1:40 PM Panel Discussion

12:30 PM - 2:00 PM

MINI-ORAL SESSION III (Room 312)

Chairs: Peter MacDonald, MD, John Dunning, MD and Thomas DiSalvo, MD

12:30 PM (335) A Cutoff Point for Peak VO₂ with Beta-Blocker Therapy in Cardiac Transplant Candidates; G.V. Guimaraes,¹ V.M. d'Avila,¹ M.S. Silva,¹ S.A. Ferreira,¹ E.A. Bocchi,¹ *University of Sao Paulo - Medical School, Heart Institute, Sao Paulo, Brazil*

12:35 PM (336) Ventilatory Inefficiency Is Associated with Right Ventricular Dysfunction in Patients with Advanced Cardiomyopathy; A.B. Methvin,² S.E. Wieggers,³ A. Emmi,³ P.R. Forfia,¹ *Heart Failure and Transplant Center, University of Pennsylvania, Philadelphia, PA; ²University of Pennsylvania School of Medicine, Philadelphia, PA; ³Cardiovascular Division, Echocardiographic Laboratory, University of Pennsylvania, Philadelphia, PA*

12:40 PM (337) Increased Arterial Stiffness Contributes to Vascular Load in Acute Decompensated Heart Failure; A. Biolo,¹ S. Matiwala,¹ T. Fitzgibbons,¹ W. Chung,¹ J. Palmisano,¹ R. Beal,¹ J. Vita,¹ W.S. Colucci,¹ H. Ooi,² *¹Cardiovascular Medicine, Boston Medical Center, Boston, MA; ²Cardiovascular Medicine, Vanderbilt University Medical Center, Nashville, TN*

12:45 PM (338) Utility of the Seattle Heart Failure Model in Medically Treated Patients with Advanced Heart Failure; J. Larned,¹ V. Georgiopolou,¹ A. Kalogeropoulos,¹ G. Giamouzis,¹ P. Anarado,¹ S. Waheed,¹ V. Bavikati,¹ J.D. Vega,¹ W. Book, S. Laskar, S.A. Agha, C. D'Amico, A. Smith, J. Butler *Emory University School of Medicine, Atlanta, GA*

12:50 PM (339) Long-Term Pulsatile and Non-Pulsatile Mechanical Circulatory Support; T.N.H. Drews,¹ M. Dandel,¹ F. Kaufmann,¹ M. Pasic,¹ Y. Weng,¹ R. Hetzer,¹ *Deutsches Herzzentrum Berlin, Berlin, Germany*

12:55 PM (340) Platelet Activation in Patients Supported by Continuous Flow Left Ventricular Assist Devices; M.S. Slaughter,¹ M.A. Sobieski,¹ J.D. Graham,² T. Horrell,² P.S. Pappas,¹ A.J. Tatroles,¹ G.H.R. Rao,³ R. Stein,⁴ J. Brindiese,¹ *¹Cardiac Surgery Research and Mechanical Assist Device Program, Advocate Christ Medical Center, Oak Lawn, IL; ²Department of Biomedical Engineering, University of Louisville, Louisville, KY; ³Laboratory Medicine Pathology, Lilliehei Heart Institute, University of Minnesota, Minneapolis, MN; ⁴Division Hematology and Oncology, Advocate Christ Medical Center, Oak Lawn, IL*

1:00 PM (341) Outcomes Following Device Replacement in Patients Requiring Long-Term Mechanical Cardiac Support; M.S. Firstenberg,¹ P. Vesco,¹ L.B. Louis,¹ C.B. Sai-Sudhakar,¹ B. Sun,¹ *Cardiothoracic Surgery, The Ohio State University Medical Center, Columbus, OH*

1:05 PM (342) The Epidemiology of Bleeding and Clotting in Pulsatile and Continuous Flow LVAD Patients; D. Goldstein,¹ Y. Naka,² T. Icenogle,³ M. Slaughter,⁴ F. Pagani,⁵ J. Choe,⁶ E. Rose,² P. Desvigne-Nickens,⁷ M. Parides,⁶ U. Rawiel,⁶ A. Guerchicoff,⁶ D. Ascheim,⁶ A. Moskowitz,⁶ A. Gelijs,⁶ A.M. Schmidt,² *Montefiore Medical Center, Bronx, NY; ²Columbia University Medical Center, New York, NY; ³Sacred Heart Medical Center, Spokane, WA;*

⁴Advocate Christ Medical Center, Oak Lawn, IL; ⁵University of Michigan Medical Center, Ann Arbor, MI; ⁶International Center for Health Outcomes and Innovation Research, New York, NY; ⁷NIH

1:10 PM (343) Intrinsic Autoregulatory Capability of a Continuous Flow Rotary Pump LVAD during Exercise; *J. Haft,¹ Y. Suzuki,¹ K.D. Aaronson,² D.J. Farrar,³ D.B. Dyke,² E.D. Pagani,¹* ¹Section of Cardiac Surgery, University of Michigan, Ann Arbor, MI; ²Division of Cardiovascular Medicine, University of Michigan, Ann Arbor, MI; ³Thoratec Corporation, Pleasanton, CA

1:15 PM (344) Efficacy of Continuous-Flow Ventricular Assist Devices in Heart Failure Patients with Severe Pulmonary Hypertension; *R. John,¹ E. Kamdar,¹ A. Boyle,¹ M. Colvin-Adams,¹ M. Pritzker,¹ E. Missov,¹ K. Liao,¹ L. Joyce,¹* ¹University of Minnesota, Minneapolis, MN

1:20 PM (345) Median Axial Flow Pump Speed Associated with Cessation of Aortic Valve Opening Is an Indicator of Remission of Chronic Heart Failure in Patients Supported by a Left Ventricular Assist Device; *J.D. Estep,¹ T. Yarrabolu,² H.K. Win,¹ R. Stainback,⁴ O.H. Frazier,⁵* ¹Cardiology, Baylor College of Medicine, Houston, TX; ²Cardiology Noninvasive Laboratory Research Center, Texas Heart Institute, Houston, TX; ³Cardiology, Baylor College of Medicine, Houston, TX; ⁴Cardiology, Texas Heart Institute, Houston, TX; ⁵Cardiovascular and Thoracic Surgery/Transplantation, Texas Heart Institute, Houston, TX

1:25 PM (346) Reversal of Secondary Pulmonary Hypertension in Patients Supported by Left Ventricular Assist Devices; *B.A. Bruckner,¹ L.P. Jacob,² R. Delgado,² M.J. Reardon,¹ M. Loebe,¹ I. Gregoric,² R.C. Bogaev,² G. Torre-Amione,¹ O.H. Frazier,²* ¹DeBakey Heart Center, The Methodist Hospital, Houston, TX; ²Transplant Assist Devices, Texas Heart Institute, Houston, TX

1:30 PM (347) Surgical Left Ventricular Restoration Improves Systolic Function by Optimizing Mechanical Intraventricular Synchrony and Synergy in Ischemic Cardiomyopathy; *C. Knosalla,¹ M. Dandel,¹ M. Kukucka,² Y. Weng,¹ M. Pasic,¹ H. Kuppe,² R. Hetzer,¹* ¹Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Institute of Anesthesiology, Deutsches Herzzentrum Berlin, Berlin, Germany

1:35 PM (348) Does a 3D Evaluation of Dyssynchrony in CHF Patients Offer an Advantage over a 2D Approach? A Cardiovascular MRI Method for Dyssynchrony; *R.W.W. Biederman,¹ F. Grothues,² H. Klein,² R. Williams,¹ J. Yamrozik,¹ G. Rayarao,¹ D.A. Vido,¹ C. Huth,² M. Doyle,¹* ¹The Gerald McGinnis Cardiovascular Institute, Allegheny General Hospital, Pittsburgh, PA; ²University Hospital Magdeburg, Magdeburg, Germany

1:40 PM (349) Pretransplant Toxoplasma gondii Seropositivity amongst Heart Transplant Recipients Is Associated with an Increased Risk of All-Cause and Cardiac Mortality; *S. Arora,¹ P. Jenum,² P. Aukrust,³ H. Rollag,² A.K. Andreassen,¹ S. Simonsen,¹ E. Gude,¹ A. Fiane,⁴ O. Geiran,⁴ L. Gullestad,¹* ¹Department of Cardiology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ²Medical Microbiology, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ³Department of Clinical Immunology and Infectious Diseases, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway; ⁴Department of Thoracic and Cardiovascular Surgery, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway

1:45 PM (350) Tailored Treatment May Improve Lung Transplant Outcome in Patients Colonized by Burkholderia Cenocepacia; *P. Vitulo,¹ A. Bertani,² F. Pardo,³ A. Arcadipane,⁴ S. Sciacca,⁵ B. Gridelli,¹* ¹Pulmonary Medicine, Ismett-UPMC, Palermo, Italy; ²Thoracic Surgery, Ismett-UPMC, Palermo, Italy; ³Cystic Fibrosis Center, Ospedale dei Bambini, Palermo, Italy; ⁴Critical Care, Ismett-UPMC, Palermo, Italy; ⁵Cardiac Surgery, Ismett-UPMC, Palermo, Italy; ⁶Dept. of Surgery, Ismett-UPMC, Palermo, Italy

12:30 PM - 2:00 PM

MINI-ORAL SESSION IV (Room 302)

Chairs: Jacqueline Szuskovicz, MD, Thalachallour Mohanakumar, MD, and Michael Burch, MD

12:30 PM (351) Bridging to Cardiac Transplant in Children; *J. Cassidy,¹ S. Haynes,¹ N. Wrightson,¹ M. Griselli,¹ A. Hasan,¹ R. Kirk,¹* ¹Department of Paediatric Cardiology and Intensive Care, Freeman Hospital, Newcastle upon Tyne, United Kingdom

12:35 PM (352) Controlled Ventilation High Resolution Computed Tomography, Pulmonary Function Testing, and Transbronchial/Open Lung Biopsy for the Detection of Allograft-Related Complications Following Infant Lung Transplantation; *T.L. Astor,¹ F. Long,¹ P. Baker,¹ M. Galantowicz,¹ R. Castile,¹* ¹Lung and Heart-Lung Transplant Program, Nationwide Children's Hospital, Columbus, OH

12:40 PM (353) Outcomes of Children with Restrictive Cardiomyopathy Listed for Heart Transplant: A Multi-Institutional Study; *S.D. Zangwill,¹ D. Naftel,² T. L'Ecuyer,³ D. Rosenthal,⁴ B. Robinson,⁵ J. Kirklin,² G. Stendahl,¹ A.I. Dipchand,⁶* ¹Children's Hospital of Wisconsin, Milwaukee; ²University of Alabama at Birmingham, Birmingham;

³Children's Hospital of Michigan, Detroit; ⁴Stanford University Medical Center, Palo Alto; ⁵University of North Carolina, Chapel Hill; ⁶Hospital for Sick Children, Toronto, Canada

12:45 PM (354) Mechanical Circulatory Support for the Treatment of Cardiogenic Shock in Children and Adolescents with Acute Fulminant Myocarditis; S. Buz,¹ Y. Weng,¹ M. Huebler,¹ T. Drews,¹ C. Knosalla,¹ H. Lehmkuhl,¹ M. Dandel,¹ F. Berger,² R. Hetzer,¹ ¹Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Department of Congenital Heart Defects/Pediatric Cardiology, Deutsches Herzzentrum Berlin, Berlin, Germany

12:50 PM (355) Mechanical Circulatory Support in Infants, Children and Adolescents as Bridge to Heart Transplantation: Current Outcomes; D.N. Rosenthal,¹ M. Pelletier,¹ G. Wright,¹ O. Reinhartz,¹ D. Bernstein,¹ C. Chin,¹ S. Roth,¹ E. Liu,² R. Robbins,¹ B. Reitz,¹ ¹Stanford University, Stanford, CA; ²Lucile Packard Children's Hospital, Stanford, CA

12:55 PM (356) Parental Stress and Distress after Paediatric Cardiothoracic Transplantation; J. Wray,¹ T. Lunnon-Wood,¹ ¹Cardiothoracic Transplantation, Great Ormond Street Hospital for Children NHS Trust, London, United Kingdom

1:00 PM (357) Administration of Clodronate Confers Added Protection Against HALR; T.A. Stoddard,¹ S.S. Kelishadi,¹ T. Zhang,¹ C. Avon,¹ A. Azimzadeh,¹ R.N. Pierson,¹ ¹Surgery, University of Maryland School of Medicine, Baltimore, MD

1:05 PM (358) The In Situ Langendorff Perfusion System: A New Method for Viral Mediated Gene Transfer to Porcine Hearts Prior Transplantation; L. Burdorf,¹ N. Schuhmann,² A. Schulz,¹ M. Koehn,³ E. Thein,³ U. Brandl,¹ B. Reichart,¹ H. Buening,² M. Schmoedel,¹ ¹Department of Cardiac Surgery, Ludwig-Maximilians University, Munich, Germany; ²Clinic I for Internal Medicine, Cologne University, Cologne, Germany; ³Institute for Surgical Research, Ludwig-Maximilians University, Munich, Germany

1:10 PM (359) A Novel Bioreactor for Miniaturized Bioartificial Cardiac Tissue Engineering; G. Kensah,¹ I. Gruh,¹ M. Bierbaum,² C. Krause,² J. Viering,³ M. Breyvogel,³ A. Haverich,¹ U. Martin,¹ ¹Leibniz Research Laboratories for Biotechnology and Artificial Organs LEBAO, Hannover Medical School, Hannover, Germany; ²Institute of Material Science, Leibniz University Hannover, Hannover, Germany; ³Central Research Workshops, Hannover Medical School, Hannover, Germany

1:15 PM (360) Constantly Stable HIF-1 α in Myeloid Cells Prevents Acute Rejection in Rat Cardiac Allografts; M.A.I. Keränen,¹ R. Tuuminen,¹ A.I. Nykänen,¹ E. Tavast,¹ P.K. Koskinen,^{1,2} R.S. Johnson,^{1,3} K.B. Lemström,^{1,4} ¹Cardiopulmonary Research Group, Transplantation Laboratory, University of Helsinki, Helsinki, Finland; ²Department of Medicine, Division of Nephrology, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland; ³Molecular Biology Section, Division of Biological Sciences, University of California, San Diego; ⁴Department of Cardiothoracic Surgery, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland

1:20 PM (361) Perioperative Donor Splenocyte Cotransplantation Induces Regulatory T Cells and Abolishes Acute Vascular Rejection in Porcine Allogenic Pulmonary Transplantation; B. Kruse,¹ G. Warnecke,¹ S. Thissen,¹ M. Avsar,¹ F. Länger,² V. Kaefer,³ A.R. Simon,¹ J.H. Karstens,⁴ A. Haverich,¹ M. Strüber,¹ ¹Div. of Thoracic and Cardiovascular Surgery, Hannover Medical School, Hannover, Germany; ²Department of Pathology, Hannover Medical School, Hannover, Germany; ³Department of Molecular Pharmacology, Hannover Medical School, Hannover, Germany; ⁴Department of Radiotherapy and Special Oncology, Hannover Medical School, Hannover, Germany

1:25 PM (362) Recipient Hyperbilirubinemia Protects Rat Cardiac Grafts; A. Nakao,^{1,2} H. Toyokawa,¹ M. Abe,¹ J. Kohmoto,¹ A. Tsung,¹ T. Kaizu,¹ S. Kanno,² A.W. Thomson,¹ T.R. Billiar,² K.R. McCurry,^{1,2} N. Murase,¹ ¹Surgery, Thomas E Starzl Transplantation Institute, University of Pittsburgh, Pittsburgh, PA; ²Surgery, University of Pittsburgh, Pittsburgh, PA

1:30 PM (363) Intraluminal Bone Marrow Cells Inhibit Allograft Fibrosis Via the Indoleamine Dioxygenase Pathway; A.A.R. Day,¹ M. Gotoh,¹ Z. Yingzhe,¹ S. Keshavjee,¹ T.K. Waddell,¹ ¹Thoracic Surgery, Toronto General Research Institute/UHN, Toronto, Canada

1:35 PM (364) Induction of Mixed Chimerism and Transplantation Tolerance in a Non-Human Primate Lung Allograft Model: Early Results; C.Y. Ng,¹ M.J. Weiss,³ S. Boskovic,² T. Kawai,² T.M. Millington,² G. Benichou,² J.C. Madsen,² J. Wain,² J.S. Allan,² ¹Papworth Hospital NHS Trust, Cambridge, United Kingdom; ²Massachusetts General Hospital, Boston, MA; ³Johns Hopkins Hospital, Baltimore

1:40 PM (365) Neonatally-Induced Cardiac Allograft Acceptance: Assessment of Microchimerism; H.E. Mewhort,¹ K. Tao,¹ S.J. Maier,¹ J.M. Brown,¹ L.J. West,¹ ¹*Pediatrics, Surgery and Immunology, University of Alberta, Edmonton, AB, Canada*

1:45 PM (366) Novel Lung Preservation with Custodiol N in an Experimental Lung Transplantation Model; N. Pizanis,¹ A. Petrov,¹ J. Heckmann,¹ K. Tsagakis,¹ K. Pilarczyk,¹ H. de Groot,² H. Jakob,¹ U. Rauen,² M. Kamler,¹ ¹*Thoracic- and Cardiovascular Surgery, West German Heart Center Essen, University Hospital Essen, Essen, Germany;* ²*Physiological Chemistry, University Hospital Essen, Essen, Germany*

1:50 PM (367) Proteomic Biomarkers of Acute Heart Allograft Rejection; G. Cohen Freue,¹ A. Bergman,² Z. Hollander,³ M. Sasaki,² J. Wilson-McManus,⁴ R. Balshaw,¹ R. Ng,⁵ P. Keown,⁶ B. McManus,⁴ R. McMaster,² ¹*Statistics, University of British Columbia, Vancouver, BC, Canada;* ²*Medical Genetics, University of British Columbia, Vancouver, BC, Canada;* ³*James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, University of British Columbia, Vancouver, BC, Canada;* ⁴*Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada;* ⁵*Computer Science, University of British Columbia, Vancouver, BC, Canada;* ⁶*Medicine, University of British Columbia, Vancouver, BC, Canada*

2:15 PM - 3:45 PM

CONCURRENT SESSION 30: Novel Diagnostic and Therapeutic Approaches to Cardiac Allograft Vasculopathy (Ballrooms A-C)

Chairs: Nicolaas De Jonge, MD and Alain Heroux, MD

2:15 PM (368) Cardiac Allograft Remodeling: Patterns, Predictors and Outcomes; E. Raichlin,¹ P.S. Henke,¹ H.R. Villarraga,² S.S. Kushwaha,¹ B.S. Edwards,¹ R.P. Frantz,¹ R.J. Rodeheffer,¹ A.L. Clavel,¹ J.A. Wagner,¹ C.G. McGregor,¹ R.C. Daly,¹ S.J. Park,¹ W.K. Kremers,¹ N.L. Pereira,¹ ¹*William J. Von Liebig Transplant Center, Mayo Clinic, Rochester, MN;* ²*Echocardiography Laboratory, Division of Cardiology, Mayo Clinic, Rochester, MN*

2:30 PM (369) Prophylaxis vs. Pre-Emptive Strategies in Preventing Cytomegalovirus-Dependent Cardiac Allograft Vasculopathy; L. Potena,¹ A.C. Musuraca,¹ F. Grigioni,¹ P. Ortolani,¹ G. Pastorelli,¹ F. Angeli,¹ M.G. Vetrugno,¹ G. Magnani,¹ F. Fallani,¹ F. Coccolo,¹ A. Russo,¹ A. Branzi,¹ ¹*Institute of Cardiology, University of Bologna, Bologna, Italy*

2:45 PM (370) Kidney Transplantation in UK Cardiothoracic Transplant Recipients; H.L. Thomas,¹ D. Collett,¹ N.R. Banner,² ¹*UK Transplant, Bristol, United Kingdom;* ²*Harefield Hospital, Harefield, United Kingdom;* ³*On Behalf of the UK Transplant Cardiothoracic Advisory Group, Bristol, United Kingdom*

3:00 PM (371) First-Year Statin Resistant Hypercholesterolemia: A Cause for Concern in the Development of Cardiac Allograft Vasculopathy; J.K. Patel,¹ J.C. Kawano,¹ M.M. Kittleson,¹ U. Duong,¹ M.A. Kawano,¹ A. Ardehali,² J.A. Kobashigawa,¹ ¹*Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA;* ²*Cardiothoracic Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

3:15 PM (372) Genomic Biomarkers of Chronic Heart Allograft Rejection; G. Cohen Freue,¹ C. Imai,² A. Ignaszewski,² G.B.J. Mancini,² Z. Hollander,³ J. Wilson-McManus,⁴ R. Balshaw,¹ R. Ng,⁵ R. McMaster,⁶ P. Keown,² B. McManus,⁴ ¹*Statistics, University of British Columbia, Vancouver, BC, Canada;* ²*Medicine, University of British Columbia, Vancouver, BC, Canada;* ³*James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, St Pauls-University of British Columbia, Vancouver, BC, Canada;* ⁴*Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada;* ⁵*Computer Science, University of British Columbia, Vancouver, BC, Canada;* ⁶*Medical Genetics, University of British Columbia, Vancouver, BC, Canada*

3:30 PM (373) Potential Role of Circulating Progenitor Cells in Coronary Microvascular Dysfunction of Heart Transplant Patients with Normal Coronary Angiograms; E. Osto,¹ F. Tona,¹ G. Fadini,² I. Baesso,³ A.L.P. Caforio,¹ C. Agostini,³ G. Tarantini,¹ A. Avogaro,² A. Angelini,⁴ G. Gerosa,⁵ S. Iliceto,¹ ¹*Cardiology, University of Padova, Padova, Italy;* ²*Division of Metabolic Disease, University of Padova, Padova, Italy;* ³*Clinical Immunology, University of Padova, Padova, Italy;* ⁴*Cardiovascular Pathology, University of Padova, Padova, Italy;* ⁵*Cardiovascular Surgery, University of Padova, Padova, Italy*

2:15 PM - 3:45 PM

CONCURRENT SESSION 31: "OMICS" of Mechanical Circulatory Support (Rooms 304-306)

Chairs: Paul J. Mohacsy, MD and Heather J. Ross, MD, FRCPC, MHSC

2:15 PM (374) Altered Expression of Genes Involved in Mechanotransduction and Fibrosis after Mechanical Support of Failing Hearts; J. van Kuik,¹ M.F.M. van Oosterhout,¹ E. Siera de Koning,¹ N. de Jonge,² R.A. de Weger,¹ ¹*Pathology, University Medical Center Utrecht, Utrecht, Netherlands;* ²*Cardiology, University Medical Center Utrecht, Utrecht, Netherlands*

2:30 PM (375) Proteomic Profiling of the Human Heart Following Left Ventricular Assist Device Support; P. van der Weide,¹ N. Bovenschen,¹ E. Siera- de Koning,¹ J. van Kuik,¹ M.F.M. van Oosterhout,¹ M.E.I. Schipper,¹ N. de Jonge,² R.A. de Weger,¹ ¹Pathology, University Medical Center, Utrecht, Netherlands; ²Heart Lung Center, University Medical Center, Utrecht, Netherlands

2:45 PM (376) Novel Plasma Biomarkers of Myocardial Fibrosis and Remodeling in Terminal Heart Failure Patients Supported by Mechanical Circulatory Support Devices; H. Milting,¹ F. Kramer,² P. Ellinghaus,² H. Cakar,¹ B. Bohms,¹ A. Kassner,¹ H. Kastning,¹ V. Lauenroth,¹ T. Krahn,² L. Kruska,² R. Körfer,¹ A. El Banayosy,¹ ¹Herz- und Diabeteszentrum NRW, Universitaetsklinikum der Ruhr Universitaet Bochum, Erich und Hanna Klessmann-Institut für Kardiovaskuläre Forschung und Entwicklung, Bad Oeynhausen, Germany; ²Bayer-Schering Pharma, Target Discovery, Wuppertal, Germany

3:00 PM (377) Differences in Gene Expression after Mechanical Circulatory Support with Pulsatile and Non-Pulsatile Left Ventricular Assist Devices Utilizing Gene Arrays; J. Jahanyar,¹ L.E. Peterson,² M. Loebe,¹ D. Joyce,¹ B. Bruckner,³ G. Torre-Amione,³ M.M. Koerner,³ G.P. Noon,¹ K.A. Youker,³ ¹Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX; ²Division of Biostatistics and Epidemiology, Dept. of Public Health, The Methodist Hospital, Houston, TX; ³Methodist DeBakey Heart Center, The Methodist Hospital, Houston, TX

3:15 PM Invited Lecture: Interaction of MCS & Cardiac Remodeling: State of the Science, Guillermo Torre-Amione, MD, PhD, The Methodist Hospital, Houston, TX

2:15 PM - 4:00 PM

CONCURRENT SESSION 32: Innovative Approaches to Lung Transplantation (Room 312)

Chairs: Ashish Shah, MD and Peter M. Hopkins, FRACP

2:15 PM (378) Impact of Graft Volume Reduction for Oversized Grafts on Outcome after Lung Transplantation in Recipients with End-Stage Restrictive Pulmonary Diseases; N. Shigemura,¹ B. Hattler,¹ C. Bermudez,¹ K.R. McCurry,¹ Y. Toyoda,¹ ¹Cardiothoracic Transplant, University of Pittsburgh Medical Center, Pittsburgh, PA

2:30 PM (379) Lung Transplantation through Minimally Invasive Approach; Y. Toyoda,¹ ¹Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA

2:45 PM (380) Use of Cardiopulmonary Bypass in Patients Undergoing Minimally Invasive Bilateral Lung Transplantation; A.L. Meyer,¹ M. Avsar,¹ J. Gottlieb,¹ H. Goerler,¹ C. Hagl,¹ S. Fischer,¹ C. Kuehn,¹ A. Martens,¹ G. Warnecke,¹ B. Gohrbandt,¹ M. Strueber,¹ A. Haverich,¹ A.R. Simon,¹ ¹Hanover Thoracic Transplant Program, Hanover Medical School, Hanover, Germany

3:00 PM (381) Safe Extension of Ischaemic Time in Lung Transplantation – Where Is the Limit?; P. Botha,¹ N. Wrightson,¹ T. Butt,¹ P.A. Corris,¹ J.H. Dark,¹ A.J. Fisher,¹ S.V.B. Schueler,¹ ¹Department of Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom

3:15 PM (382) Initial Experience with Lung Transplantation from Non-Heart-Beating Donors; D. Van Raemdonck,¹ G.M. Verleden,² L. Dupont,² D. Van Hees,³ W. Coosemans,¹ G. Decker,¹ P. De Leyn,¹ P. Nafteux,¹ T. Lerut,¹ ¹Thoracic Surgery, University Hospitals Leuven, Leuven, Belgium; ²Pneumology, University Hospitals Leuven, Leuven, Belgium; ³Transplantation Coordination, University Hospitals Leuven, Leuven, Belgium

3:30 PM (383) Early Experience with Lung Transplantation Using Donors after Cardiac Death; D.P. Mason,¹ S.C. Murthy,¹ M.M. Budev,² A.C. Mehta,² A.M. McNeill,¹ G.B. Petersson,¹ ¹Thoracic and Cardiovascular Surgery, Cleveland Clinic, Cleveland, OH; ²Pulmonary Medicine, Cleveland Clinic, Cleveland, OH

3:45 PM (384) ECLA vs. ECMO — Impact of Different Extracorporeal Life Support Systems as a Bridge to Lung Transplantation – A Single Center Retrospective Analysis; Y. Li,¹ M. Strueber,¹ J. Gottlieb,² B. Gohrbandt,¹ S. Fischer,¹ A.L. Meyer,¹ C. Kuehn,¹ A. Goerler,¹ C. Hagl,¹ G. Warnecke,¹ A. Haverich,¹ A.R. Simon,¹ ¹Hannover Thoracic Organ Transplant Program, Division of Cardiothoracic, Transplantation and Vascular Surgery, Hannover Medical School, Hannover, Germany; ²Division of Pneumology, Hannover Medical School, Hannover, Germany

2:15 PM – 3:45 PM

CONCURRENT SESSION 33: Update on the Prevention of Infectious Diseases in Thoracic Transplant Recipients (Room 302)

Chairs: Stephan Schueler, MD and Frauke Mattner, MD

2:15 PM When is “no” the Right Answer for a Donor? *Kate Gould, FRCPath, Freeman Hospital, Newcastle, United Kingdom*

2:40 PM An Update on Infectious Disease Prophylaxis, *Emily A. Blumberg, MD, University of Pennsylvania, Philadelphia, PA*

3:05 PM Traveling Transplant Recipient, *Martha Mooney, MD, Eastern Virginia Medical School, Norfolk, VA*

3:25 PM Vaccination in Thoracic Transplantation, *Shahid Husain, MD, University of Pittsburgh Medical Center, Pittsburgh, PA*

2:15 PM - 3:45 PM

CONCURRENT SESSION 34: Organ Resuscitation Via Mechanical Perfusion (Room 311)

Chairs: Dirk Van Raemdonck, MD, PhD and Bruce R. Rosengard, MD, FRCS, FACS

2:15 PM (385) Ex-Vivo Normothermic Lung Perfusion (EVLV) Interrupts Ischemic Injury and Restores Cellular Metabolism; *M. Cypel,¹ S. Hirayama,¹ M. Rubacha,¹ S. Fischer,¹ J. Yeung,¹ M. Anraku,¹ Y. Zhang,¹ M. Sato,¹ M. Liu,¹ T.K. Waddell,¹ M. de Perrot,¹ S. Keshavjee,¹ Thoracic Surgery Department, Toronto Lung Transplant Program, Latner Thoracic Surgery Laboratory, University of Toronto, Toronto, ON, Canada*

2:30 PM (386) Ex-Vivo Reconditioning of Marginal Donor Lungs Injured by Acid Aspiration; *L. Inci,¹ L. Ampollini,¹ S. Arni,¹ W. Jungraithmayr,¹ P. Vogt,² B. Leskosek,¹ S. Hillinger,¹ W. Weder,¹ Department of Thoracic Surgery, University of Zurich, Zurich, Switzerland; ²Department of Pathology, University of Zurich, Zurich, Switzerland*

2:45 PM (387) Ex-Vivo Assessment of Donor Hearts with the OCS To Detect Hidden Pathologies; *S. Tsui,¹ K. Dhital,¹ C. Eisenring,² A. Ardehali,² Cardiothoracic Surgery, Papworth Hospital, Papworth, United Kingdom; ²Cardiac Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA*

3:00 PM (388) Predicting the Metabolic State of Donor Hearts Prior to Implantation in a Large Animal Model of Perfusion Preservation; *M. Peltz,¹ D.H. Rosenbaum,¹ M.E. Merritt,² L. Ammann,³ M.E. Jessen,¹ Cardiovascular and Thoracic Surgery, University of Texas Southwestern Medical Center at Dallas, Dallas, TX; ²Advanced Imaging Center, University of Texas Southwestern Medical Center at Dallas, Dallas, TX*

3:15 PM (389) Development and Evaluation of an In-Vitro Reperfusion Circuit for Reconditioning of Predamaged Donor-Lungs; *S. Wipper,¹ B. Martens,¹ A. Dupree,¹ J. Schirmer,¹ C. Pahrman,¹ H. Reichenspurner,¹ F. Wagner,¹ Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany*

3:30 PM (390) Cardiac Reanimation for Donation after Cardiac Death; *S.E. Repse,¹ S. Pepe,¹ J. Anderson,² F.L. Rosenfeldt,¹ Cardiothoracic Surgical Research Unit, Alfred Hospital and Monash University, Melbourne, Victoria, Australia; ²Perfusion Department, Alfred Hospital, Melbourne, Victoria, Australia*

2:15 PM - 3:45 PM

CONCURRENT SESSION 35: Induction Strikes Back (Room 310)

Chairs: Andreas O. Zuckermann, MD and Hermann Reichenspurner, MD, PhD

2:15 PM (391) Alemtuzumab Induction Facilitates Steroid-Free Maintenance Immunosuppression in Human Cardiac Transplantation; *J. Teuteberg,¹ M. Shullo,² R. Zomak,³ Y. Toyoda,³ C. Bermudez,³ D. McNamara,¹ R. Kormos,³ K. McCurry,³ Cardiovascular Institute, University of Pittsburgh, Pittsburgh, PA; ²Department of Pharmacy and Therapeutics, University of Pittsburgh, Pittsburgh, PA; ³Heart, Lung, and Esophageal Institute, University of Pittsburgh, Pittsburgh, PA*

2:30 PM (392) Infection and Rejection Risk Using Induction with Interleukin II Receptor Blockers vs. Antithymocyte Globulin vs. No Induction: A Multi-Institutional Study; *S.V. Pamboukian,¹ S.M. Pham,² R.S.D. Higgins,³ B. Czerska,⁴ B.S. Clemson,⁵ J.K. Kirklin,¹ R.N. Brown,¹ C. White-Williams,¹ Cardiac Transplant Research Database,¹ The University of Alabama at Birmingham, Birmingham, AL; ²University of Miami, Miller School of Medicine, Miami, FL; ³Rush University Medical Center, Chicago, IL; ⁴Henry Ford Hospital, Detroit, MI; ⁵Downstate Heart Transplant Center, Peoria, IL*

2:45 PM (393) Impact of Different ATG Protocols on Long-Term Outcome after Cardiac Transplantation – Bow to Low or Cry for High; *M. Groemmer,¹ A.Z. Aliabadi,¹ D. Dunkler,² A.O. Zuckermann,¹ Dept. of Cardiothoracic Surgery, General Hospital Vienna, Vienna, Austria; ²Dept. of Medical Statistics, General Hospital Vienna, Vienna, Austria*

3:00 PM (394) Modified Single Shot ATG Induction Followed by Postoperative CNI Holiday: A Renal Sparing and Safe Strategy after Heart Transplantation!; *F.M. Wagner,¹ J. Schirmer,¹ S. Meyer,¹ M. Kubik,¹ H. Treede,¹ L. Baholli,¹ A. Jaeckle,¹ H. Reichenspurner,¹ Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany*

3:15 PM (395) Primary Graft Dysfunction (PGD) in Human Lung Transplant Recipients Following T-Cell Depletion with Thymoglobulin or Campath-1H; *D.J. Kaczorowski,¹ D.B. Zaldonis,² Y. Toyoda,² C.A. Bermudez,² B.G. Hattler,² J.M. Pilewski,³ K.R. McCurry,² Department of Surgery, University of Pittsburgh, Pittsburgh, PA; ²Heart, Lung, and Esophageal Surgery Institute, University of Pittsburgh, Pittsburgh, PA; ³Division of Pulmonary and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA*

3:30 PM (396) Successful Outcomes in Human Lung Transplantation with Campath Induction and Low Dose Maintenance Immunosuppression; *S. Groves,¹ A. Iacono,¹ S. Moainie,² M. Galazka,¹ B. Sherman,² S. O'Keefe,² C. Wade,² E. Britt,¹ S. Lesser,¹ N. Todd,¹ B. Griffith,² Medicine, University of Maryland School of Medicine, Baltimore, MD; ²Surgery, University of Maryland School of Medicine, Baltimore, MD*

3:45 PM – 4:15 PM

Coffee Break (Exhibit Hall A)

4:15 PM - 5:45 PM

CONCURRENT SESSION 36: Decision Trees and Outcomes in MCS (Rooms 304-306)

Chairs: James C. Fang, MD and Henry Ooi, MD

4:15 PM (397) Weaning from Left Ventricular Assist Devices in Patients with Idiopathic Dilated Cardiomyopathy: Prediction of Post-Weaning Cardiac Stability; *M. Dandel,¹ Y. Weng,¹ H. Siniawski,¹ E. Potapov,¹ T. Drews,¹ H. Lehmkuhl,¹ C. Knosalla,¹ R. Hetzer,¹ Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany*

4:30 PM (398) Exercise Performance and Hemodynamic Unloading in Patients with an Axial Flow Pump in Comparison to Pulsatile Devices; *N. De Jonge,¹ H. Kirkels,¹ C. Klopping,¹ H.M. Nathoe,¹ H. Kemperman,² J.R. Lahpor,¹ Division Heart and Lungs, University Medical Center Utrecht, Utrecht, Netherlands; ²Clinical Chemistry, University Medical Center Utrecht, Utrecht, Netherlands*

4:45 PM (399) Geometry of the Right Ventricle as Predictor of Right Ventricular Function after LVAD Implantation; *E.V. Potapov,¹ A. Stepanenko,¹ M. Dandel,¹ M. Kukucka,² T. Krabatsch,¹ R. Hetzer,¹ Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Anesthesiology, Deutsches Herzzentrum Berlin, Berlin, Germany*

5:00 PM (400) LVAD Risk Prediction Models: The Value of Getting Another Opinion; *J.C. Matthews,¹ T.F. Dardas,¹ T.M. Koelling,¹ F.D. Pagani,² K.D. Aaronson,¹ Internal Medicine, Division of Cardiovascular Medicine, University of Michigan, Ann Arbor, MI; ²Section of Cardiac Surgery, University of Michigan, Ann Arbor, MI*

5:15 PM Invited Lecture: Survival & Recovery After MCS State of the Clinical Art, *Leslie W. Miller, MD, Washington Hospital Center, Washington, DC*

4:15 pm – 5:45 pm

CONCURRENT SESSION 37: Ex-Vivo Assessment and Resuscitation of Donor Lungs (Room 312)

Chairs: Thomas M. Egan, MD, MSC and Robert B. Love, MD

4:15 PM NHBD - Definition, Update of Clinical Lung Experience, *Andres Varela, MD, Hospital University Puerta de Hierro, Madrid, Spain*

4:40 PM Ex-vivo Evaluation of NHBD Lungs, *Dirk Van Raemdonck, MD, PhD, University Hospital Gasthuisberg, Leuven, Belgium*

5:05 PM Extended Normothermic Ex-vivo Lung Assessment, Maintenance and Repair, *Shaf Keshavjee, MD, FRCSC, Toronto General Hospital, Toronto, Canada*

5:30 PM Panel Discussion

4:15 PM - 5:45 PM

CONCURRENT SESSION 38: Crossroads in Lung Transplantation (Room 302)

Chairs: Octavio E. Pajaro, MD, PhD and Peter Jaksch, MD

4:15 PM (401) Everolimus Versus Mycophenolatemofetil in De Novo Immunosuppression after Lung Transplantation – Interims Analysis of a Prospective, Randomized, Clinical Trial; M. Strueber,¹ F. Stefan,¹ A.R. Simon,¹ G. Warnecke,¹ M. Dierich,² A. Haverich,¹ T. Welte,² J. Gottlieb,^{2,1} Cardiothoracic, Transplant, and Vascular Surgery, Hannover Medical School, Hannover, Germany; ²Pneumology, Hannover Medical School, Hannover, Germany

4:30 PM (402) Complete 3 Year Analysis of a Prospective Randomized International Multi-Center Investigator Driven Study Comparing Tacrolimus and Cyclosporin A, Both in Combination with MMF and Steroids after Lung Transplantation in 249 Patients; H. Reichenspurner,¹ A. Glanville,³ A. Christina,³ R. Lama,⁷ B. Carlos,⁴ E. Marc,⁶ J.-D. Aubert,⁵ H. Treede,¹ W. Klepetko,² European and Australian Investigators in Lung Transplantation, ¹Department of Cardiovascular Surgery, University Heart Center Hamburg, Hamburg, Germany; ²University of Vienna, Vienna, Austria; ³University of Sydney, Sydney, Australia; ⁴University of Barcelona, Barcelona, Spain; ⁵University of Lausanne, Lausanne, Switzerland; ⁶University of Brussels, Brussels, Belgium; ⁷University of Cordoba, Cordoba, Spain

4:45 PM (403) Preservation of Pulmonary Function by Inhaled Cyclosporine in Lung Transplant Recipients; M. Galazka,¹ S. Groves,¹ T. Corcoran,⁴ B. Johnson,⁴ A. Suffredini,³ E. Britt,¹ B. Sherman,² S. Augustine,² S. Moainie,² N. Todd,¹ B. Griffith,² A. Iacono,¹ ¹Medicine, University of Maryland School of Medicine, Baltimore, MD; ²Surgery, University of Maryland School of Medicine, Baltimore, MD; ³Critical Care, National Institutes of Health, Bethesda, MD; ⁴Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA

5:00 PM (404) Cyclosporine Alters Airway Epithelial Cell Cytokine Secretion In Vitro: A Potential Mechanism To Explain the Efficacy of Inhaled Cyclosporine; R.M. Aris,¹ P. McNeillie,¹ L. Rothlein,¹ O. Olusesi,¹ S. Thomas,¹ C. Hammett-Stabler,¹ I.P. Neuringer ¹Pulmonary and Critical Care Medicine, University of North Carolina, Chapel Hill, NC

5:15 PM (405) A Multicenter Prospective, Randomized, Placebo-Controlled Trial of a CXCL8 Inhibitor (Reparixin) To Prevent Primary Graft Dysfunction after Lung Transplantation; B.F. Meyers,¹ S. Keshavjee,² M.R. Zamora,³ R.D. Davis,⁴ M.A. Smith,⁶ P.M. McFadden,⁸ M.I. Hertz,⁷ L. Daffonchio,⁵ R. Novellini,⁵ ¹Department of Surgery, Washington University School of Medicine, Saint Louis, MO; ²Toronto Lung Transplant Program, Division of Thoracic Surgery, University of Toronto, Toronto, ON, Canada; ³Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado Health Sciences Center, Denver, CO; ⁴Cardiothoracic Surgery, Duke University, Durham, NC; ⁵Dompe Ph.a.r.m.a s.p.a., Milan, Italy; ⁶Division of Thoracic Surgery, St. Joseph's Hospital and Medical Center, Phoenix, AZ; ⁷Department of Medicine, University of Minnesota, Minneapolis, MN; ⁸Department of Cardiothoracic Surgery, University of Southern California, Keck School of Medicine, Los Angeles, CA

5:30 PM (406) Comparison of a Tacrolimus/Sirolimus/Prednisone Regimen Versus Tacrolimus/Azathioprine/Prednisone Immunosuppressive Regimen in Lung Transplantation; S.M. Bhorade,¹ M. Baz,² V. Ahya,³ H. Seethamraju,⁴ V. Valentine,⁵ S. Arcasoy,⁶ R. Love,⁷ C. Alex,⁸ W.T. Vigneswaran,¹ J.A. Krishnan,¹ J. Charbeneau,¹ E.R. Garrity,¹ ¹Medicine, University of Chicago, Chicago, IL; ²Medicine, University of Florida, Gainesville, FL; ³Medicine, University of Pennsylvania, Philadelphia, PA; ⁴Medicine, Baylor Methodist, Houston, TX; ⁵Medicine, Ochsner Transplant Center, New Orleans, LA; ⁶Medicine, Columbia University, New York, NY; ⁷Surgery, University of Wisconsin, Madison, WI; ⁸Medicine, Loyola University Medical Center, Maywood, IL

4:15 PM - 5:45 PM

CONCURRENT SESSION 39: Innovation in Technology and Health Care: Improving the Patient's Health Care Experience (Room 311)

Chairs: Alexandria Berg, RN and Annemarie Kaan, MCN, RN

4:15 PM (407) The Patient Experience of Day-to-Day Living, When Life Involves a HeartMate II; H. Kjeldgaard,¹ K. Sander,² ¹Department of Transplantation, Rigshospitalet, Copenhagen, Denmark; ²Department of Cardiothoracic Surgery, Rigshospitalet, Copenhagen, Denmark

4:30 PM (408) Ventricular Assist Device Patients Managed Safely at Home 100 Miles or More from Implant Center; M.A. Murray,¹ N. Edwards,³ M.R. Johnson,² S. Osaki,³ L. Lozonschi,³ T. Kohmoto,³ ¹Department of Heart and Vascular Care, University of Wisconsin Hospital Clinics, Madison, WI; ²Department of Cardiology- Heart Failure, University of Wisconsin Hospital and Clinics, Madison, WI; ³Department of Surgery- Cardiothoracic Surgery, University of Wisconsin Medical School, Madison, WI

4:45 PM (409) Lung Transplant and Telehealth: Improving Patient Care through Partnerships; C. Whytehead,¹ S. McGonigle,² B. Purdy,² P. Rossos,² S. Keshavjee,¹ M.A. Hutcheon,¹ C. Chaparro,¹ D. Hadjiladis,³ L.G. Singer,¹ ¹Toronto Lung Transplant Program, University Health Network, Toronto, ON, Canada; ²Telehealth Program,

University Health Network, Toronto, ON, Canada; ³University of Pennsylvania Lung Transplant Program, Philadelphia, PA

5:00 PM (410) In the Beginning, There Were Endomyocardial Biopsies? Can We Live without Them?; *T.M. Rowe,¹ O. Gojkovic,² H.J. Eisen,² S.R. Hankins,²* ¹Center for Advanced Heart Failure Care, Hahnemann University Hospital, Philadelphia, PA; ²Division of Cardiology/Department of Medicine, Drexel University College of Medicine, Philadelphia, PA

5:15 PM (411) Home Based Exercise Training in Lung and Heart Transplant Recipients – Effects on Maximum and Endurance Exercise Capacity; *U. Tegtbur,² J. Gottlieb,³ C. Bara,¹ M. Dierich,³ E. Gützlaff,² A. Simon,¹ T. Welte,³ A. Haverich,¹ M. Strüber,¹ C. Kugler,¹* ¹Hannover Thoracic Transplant Program, Thoracic, Transplantation and Cardiovascular Surgery, Medical School, Hannover, Germany; ²Sportsmedicine, Medical School, Hannover, Germany; ³Pulmonary Medicine, Medical School, Hannover, Germany

5:30 PM (412) A Randomized Controlled Trial of Pocket PATH Versus Standard Care on Self-Care Behaviors after Lung Transplant; *A. DeVito Dabbs,¹ M.A. Dew,² B.A. Myers,³ R.P. Hawkins,⁴ D. Ren,¹ A. Begey,¹ R. Zomak,⁵ K.L. Lo Coco,⁵ K.R. McCurry,²* ¹Nursing, University of Pittsburgh, Pittsburgh, PA; ²School of Medicine, University of Pittsburgh, Pittsburgh, PA; ³Computer Sciences, Carnegie Mellon University, Pittsburgh, PA; ⁴Journalism Mass Communication, University of Wisconsin, Madison, WI; ⁵Cardiothoracic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA

4:15 PM - 5:45 PM

CONCURRENT SESSION 40: Immunobiology of Heart Transplantation (Room 310)

Chairs: David S. Feldman, MD, PhD and Karl B. Lemstrom, MD, PhD

4:15 PM (413) The Fibrin Derived Peptide B-beta₁₅₋₄₂ Ameliorates Ischemia-Reperfusion Injury after Heart Transplantation in Rats; *D. Wiedemann,¹ S. Schneeberger,² P. Friedl,³ N. Wick,⁴ K. Zacharowski,⁵ P. Petzelbauer,³ R. Margreiter,² G. Laufer,¹ S. Semsroth,¹* ¹Dept. of Cardiac Surgery, Innsbruck Medical University, Innsbruck, Austria; ²Dept. of General and Transplant Surgery, Innsbruck Medical University, Innsbruck, Austria; ³Dept. of General Dermatology, Vienna Medical University, Vienna, Austria; ⁴Dept. of Clinical Pathology, Vienna Medical University, Vienna, Austria; ⁵Dept. of Anesthesia, University Hospital Duesseldorf, Duesseldorf, Germany

4:30 PM (414) Cell-Matrix Interactions Influence Endothelial MHC Class II Expression Via SOCS1 and 3 Upregulation; *H. Methe,^{1,2} S. Hess,^{1,3} J.-O. Kim,² E.R. Edelman,^{1,3}* ¹Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA; ²Department of Cardiology, University Hospital Grosshadern, LMU Munich, Munich, Germany; ³Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

4:45 PM (415) Alloreactive T Cell Biomarkers of Acute Heart Allograft Rejection; *D. Lin,¹ Z. Hollander,² P. Qasimi,² E. Shen,³ R. Balshaw,⁴ R. Ng,⁵ R. McMaster,⁶ P. Keown,³ B. McManus,¹ A. Mui,⁷* ¹Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada; ²James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, University of British Columbia, Vancouver, BC, Canada; ³Medicine, University of British Columbia, Vancouver, BC, Canada; ⁴Statistics, University of British Columbia, Vancouver, BC, Canada; ⁵Computer Science, University of British Columbia, Vancouver, BC, Canada; ⁶Medical Genetics, University of British Columbia, Vancouver, BC, Canada; ⁷Surgery, University of British Columbia, Vancouver, BC, Canada

5:00 PM (416) Rapamycin Attenuates Hypoxic Inhibition of Telomerase Activity in Endothelial Cells; *M.V. Badiwala,¹ S.-H. Li,¹ J.L. Prodger,¹ L.C. Tumiaty,¹ R.-K. Li,¹ R.D. Weisel,¹ V. Rao,¹* ¹Division of Cardiovascular Surgery, Peter Munk Cardiac Centre, Toronto General Hospital, Toronto, ON, Canada

5:15 PM (417) Constitutively Expressed Hypoxia-Inducible Factor-1 α Prevents the Development of Cardiac Allograft Vasculopathy in the Rat; *M.A.I. Keränen,¹ A.I. Nykänen,¹ R. Krebs,¹ H. Sandelin,¹ R. Tuuminen,¹ K. Alitalo,² K. Pajusola,² S. Ylä-Herttuala,³ P.K. Koskinen,^{1,4} K.B. Lemström,^{1,5}* ¹Transplantation Laboratory, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland

5:30 PM (418) Metabolomic Biomarkers of Acute Heart Allograft Rejection; *Z. Hollander,¹ D. Wishart,² D. Lin,³ J. Peng,⁴ D. Hau,⁵ J. Wilson-McManus,³ R. Balshaw,⁶ R. Ng,⁷ R. McMaster,⁸ P. Keown,⁹ B. McManus,³* ¹James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, St Pauls Hospital-University of British Columbia, Vancouver, BC, Canada; ²Computing Science and Biological Sciences, University of Alberta, Edmonton, AB, Canada; ³Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada; ⁴Public Health Services, University of Alberta, Edmonton, AB, Canada; ⁵Biochemistry, University of Alberta, Edmonton, AB, Canada; ⁶Statistics, University of British Columbia, Vancouver, BC, Canada; ⁷Computer Science, University of British Columbia, Vancouver, BC, Canada; ⁸Medical Genetics, University of British Columbia, Vancouver, BC, Canada; ⁹Medicine, University of British Columbia, Vancouver, BC, Canada

5:45 PM - 6:45 PM

GENERAL POSTER SESSION III (Exhibit Hall A)

WINE AND CHEESE EXHIBIT RECEPTION (Exhibit Hall A)

(419) The Immunomodulation of Circulating CD4+ CD25^{bright} Regulatory T Cells by Pravastatin in a Heart Transplant Cohort; S.M. Shaw,¹ J.E. Fildes,¹ N.U. Khan,¹ S. Patel,¹ C.T. Leonard,¹ S.G. Williams,¹ N. Yonan,¹ ¹Transplant Research, University Hospital of South Manchester NHS Trust, Manchester, United Kingdom

(420) Modulation of Acute and Chronic Allograft Rejection Via Oral Application of Alloantigen Coding DNA; S.M. Ensminger,¹ A. Bushell,² K. Goldmann,³ M. Wollin,³ M. Weyand,¹ B. Spriewald,³ ¹Department of Cardiac Surgery, University of Erlangen-Nuremberg, Erlangen, Bavaria, Germany; ²Nuffield Department of Surgery, University of Oxford, Oxford, United Kingdom; ³Department of Medicine 5, University of Erlangen-Nuremberg, Erlangen, Bavaria, Germany

(421) Simvastatin Potentially Decreases Neutrophilic Inflammation and Remodelling in the Transplanted Airway; D.M. Murphy,¹ I.A. Forrest,¹ P.A. Corris,¹ G.E. Johnson,¹ T. Small,¹ D. Jones,² A.J. Fisher,¹ J.J. Egan,³ T.E. Cawston,² C. Ward,¹ J.L. Lordan,¹ ¹The Applied Immunobiology and Transplantation Research Group, The University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United Kingdom; ²The Musculoskeletal Research Group, The University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United Kingdom; ³The Irish Lung Transplant Programme, The Mater Misericordiae Hospital, Dublin, Ireland

(422) Natural Killer Cells Deplete from Peripheral Blood and Increase in Myocardial Tissue during Acute Rejection Following Heart Transplantation; J.E. Fildes,¹ P. Bishop,¹ J. Mitchell,¹ C.T. Leonard,¹ N. Yonan,¹ ¹The Transplant Centre, Wythenshawe Hospital, University Hospital of South Manchester, Manchester, United Kingdom

(423) In Vitro Characterisation of Endogenous Adult Cardiac Progenitors and Their Flux after Ischaemic Injury; I.M. Ahmed,¹ V. Chandrakanthan,¹ M. Xaymardan,¹ O.W.J. Prall,¹ S. Nasr-Esfahani,¹ R.P. Harvey,¹ ¹Victor Chang Cardiac Research Institute, Sydney, NSW, Australia

(424) BOS-Development: Comparing the Kinetics of Systemic Host Immune Response after Experimental Heterotopic and Orthotopic Tracheal Transplantations; S. Schrepfer,¹ T. Deuse,¹ R.C. Robbins,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA

(425) Reliable Tolerance Induction in Pulmonary Transplantation in Pigs by Clinically Feasible Donor Splenocyte Cotransplantation; S. Thissen,¹ G. Warnecke,¹ B. Kruse,¹ M. Avsar,¹ F. Laenger,² V. Kaever,³ S.R. Andre,¹ J.H. Karstens,⁴ A. Haverich,¹ M. Strüber,¹ ¹Div. of Thoracic and Cardiovascular Surgery, Hannover Medical School, Hannover, Germany; ²Department of Pathology, Hannover Medical School, Hannover, Germany; ³Department of Molecular Pharmacology, Hannover Medical School, Hannover, Germany; ⁴Department of Radiotherapy and Special Oncology, Hannover Medical School, Hannover, Germany

(426) Imaging Acute Rejection and Graft Revascularization with Bioluminescence Imaging; W. Stein,¹ S. Schrepfer,¹ J. Velotta,¹ J. Bartos,¹ K. Kiely,¹ M. Fischbein,¹ R.C. Robbins,¹ ¹Department of Cardiothoracic Surgery, Stanford University, Stanford, CA

(427) Toll-Like Receptor-4 (TLR4) Inhibition Reduces Actin Cytoskeletal Re-Arrangement and Gap Formation in Cultured Human Pulmonary Microvascular Endothelial Cells (HMVECs) Subjected to Simulated Warm Ischemia-Reperfusion Injury (IRI); M. Casiraghi,¹ J. Abano,² K. Burridge,³ S. Randell,⁴ T.M. Egan,² ¹Department of Thoracic Surgery, San Raffaele Scientific Institute and University, Milan, Italy; ²Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, NC; ³Department of Cell and Developmental Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC; ⁴Department of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC

(428) Hydrogen Inhalation Prevents Ischemia/Reperfusion Injury of Rat Cardiac Grafts; A. Nakao,^{1,2} D. Kaczorowski,¹ R. Sugimoto,¹ Y. Wang,¹ H. Ueda,³ T.R. Billiar,¹ K.R. McCurry,^{1,2} ¹Thomas E Starzl Transplantation Institute, University of Pittsburgh, Pittsburgh, PA; ²Surgery, University of Pittsburgh, Pittsburgh, PA; ³Mitleben RD Associates, Osaka, Japan

(429) The Role of Lymphoid Neogenesis in the Chronic Local Alloimmune Response in the Lung; M. Sato,¹ S. Hirayama,¹ D. Wagnetz,¹ M. Liu,¹ T.K. Waddell,¹ S. Keshavjee,¹ ¹Latner Thoracic Surgery Research Laboratories, Toronto General Hospital, University Health Network, Toronto, ON, Canada

(430) Apoptosis Is an Effector Mechanism of Acute Cardiac Allograft Rejection: Involvement of Proteolytic Bcl-2 Degradation; M. Kreis,¹ P. Huber,¹ M. Heidt,¹ M. Schaub,² M. Sayegh,³ H. Tillmanns,¹ T.H. Stadlbauer,¹ ¹Department

of Internal Medicine, Cardiology and Angiology, University Hospital Giessen, Giessen, Germany; ²Dialysis Unit, Dillenburg, Dillenburg, Germany; ³Transplant Research Center, Renal Division, Brigham and Women's Hospital, Boston, MA

(431) Does the Application of Electrical Microcurrent Heal Heart Failure? First Pre-Clinical In Vivo Results; J.H. Mueller,¹ B. Kappeler,² M. Hofmann,² U.M. Losert,² K. Macfelda,² ¹Berlin Heart, Berlin, Germany; ²Medical University of Vienna, Vienna, Austria

(432) Interplay between Coagulation and Inflammation in Lung Transplantation Ischemia-Reperfusion; C.L. Lau,¹ J. Kim,² D.J. Pinsky,³ ¹Surgery, University of Virginia, Charlottesville, VA; ²Surgery, University of Michigan, Ann Arbor, MI; ³Internal Medicine, University of Michigan, Ann Arbor, MI

(433) The Effect of Organ-Specific CD26/Dipeptidylpeptidase IV (DPP IV) – Inhibitor – Preconditioning on Acute Pulmonary Allograft Rejection in Rats; W. Jungraithmayr,¹ B. Oberreiter,¹ I. DeMeester,² P. Vogt,¹ M. Cardell,¹ W. Zhai,¹ S. Hillinger,¹ K. Augustyns,² S. Arni,¹ S. Scharpe,³ W. Weder,¹ S. Korom,¹ ¹Thoracic Surgery, University Hospital, Zurich, Switzerland; ²Department of Pharmaceutical Sciences, University of Antwerp, Antwerpen, Belgium

(434) Revising the Virtual Crossmatch Algorithm: The Predictive Value of Solid-Phase Antibody Detection Assays; E. Field,^{3,1} J. Klesney-Tait,¹ K. Parekh,² N. Zavazava,^{3,1} ¹Internal Medicine, University of Iowa Hospitals and Clinics, Iowa City, IA; ²Cardiothoracic Surgery, University of Iowa Hospitals and Clinics, Iowa City, IA; ³Research Service, Department of Veterans Affairs Medical Center, Iowa City, IA

(435) Localization of Versican in Proliferating Smooth Muscle Cells: Implications for Chronic Rejection; J.M. Carthy,¹ M. Rahmani,¹ B.M. McManus,¹ ¹Pathology and Laboratory Medicine, The University of British Columbia, Vancouver, BC, Canada

(436) VEGF-A and VEGF-D Increase Endothelial Permeability by Altering Cell Junctions; X. Si,^{1,2} B. Wong,^{1,2} Z. Luo,^{1,2} E.K.-Y. Walker,^{1,2} D. Lin,^{1,2} B.M. McManus,^{1,2} ¹The James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research, St. Paul's Hospital/Providence Health Care, Vancouver, BC, Canada; ²Pathology and Laboratory Medicine, The University of British Columbia, Vancouver, BC, Canada

(437) Hypoxic Injury and Rapamycin Stimulates Endothelial Chemoattractant EGFL7 Production; M.V. Badiwala,¹ L.C. Tumiati,¹ J.L. Prodder,¹ R. Sheshgiri,¹ E.D. Tepperman,¹ V. Rao,¹ ¹Division of Cardiovascular Surgery, Peter Munk Cardiac Centre, Toronto General Hospital, Toronto, ON, Canada

(438) Onset of Bronchiolitis Obliterans Syndrome Predicted by Elevated Plasma IL-6 and IFNG Levels; S.D. Moffatt-Bruce,¹ M. Garelnabi,² D. Nunley,² K. Wood,² P. Ross,¹ ¹Department of Cardiothoracic Surgery, Ohio State University Medical Center, Columbus, OH; ²Department of Medicine, Ohio State University Medical Center, Columbus, OH

(439) Bcl-3 Negatively Regulates Ischemia Reperfusion Injury in Mouse Orthotopic Vascularized Lung Grafts; S. Sugimoto,¹ J. Lai,¹ M. Okazaki,¹ R. Carmody,² H.J. Huang,³ G.A. Patterson,¹ D. Kreisel,¹ A.E. Gelman,¹ ¹Department of Surgery, Washington University School of Medicine, Saint Louis, MO; ²Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA; ³Internal Medicine, Washington University School of Medicine, Saint Louis, MO

(440) FR167653 Ameliorates Expression of Proinflammatory Mediators in HUVEC and Human Monocytes; M. Schaub,¹ P. Harwaldt,² J. Wilhelm,³ B. Parviz,² A. Weber,² A. Barth,² H. Tillmanns,² T.H.W. Stadlbauer,² ¹Dialysis Unit, Dillenburg, Dillenburg, Germany; ²Medicine, Cardiology and Angiology, University of Giessen, Giessen, Germany; ³Pathology, University of Giessen, Giessen, Germany

(441) Macrophage Colony-Stimulating Factor Produced by Intragraft Fibroblasts Plays a Mitogenic Role in Monocyte/Macrophage Recruitment to Cardiac Allografts Experiencing Chronic Rejection; G.D. Wu,¹ Y. He,¹ H. Wang,¹ A.S. Klein,¹ ¹Comprehensive Transplantation, Cedars-Sinai Medical Center, Los Angeles, CA

(442) Extracellular Matrix Gene Expression during Myocardial Recovery from Heart Failure Following LVAD Combination Therapy; L.E. Felkin,¹ E. Lara-Pezzi,¹ R. George,^{1,2} M.H. Yacoub,¹ E.J. Birks,^{1,2} P.J. Barton,¹ ¹Harefield Heart Science Centre, Imperial College London, Harefield, Middlesex, United Kingdom; ²Harefield Hospital, Royal Brompton and Harefield NHS Trust, Harefield, Middlesex, United Kingdom

(443) HAND1 Gene Expression Is Associated Mitochondrial Energy Pathways and Is Altered during Myocardial Recovery from Heart Failure Following LVAD Combination Therapy; E. Lara-Pezzi,¹ L.E. Felkin,¹ R. George,^{1,2} M.H. Yacoub,¹ E.J. Birks,^{1,2} P.J. Barton,¹ ¹Harefield Heart Science Centre, Imperial College London, Harefield, Middlesex, United Kingdom; ²Harefield Hospital, Royal Brompton and Harefield NHS Trust, Harefield, Middlesex, United Kingdom

(444) Follistatin Gene Expression in Heart Failure and Myocardial Recovery Following LVAD Combination Therapy; E. Lara-Pezzi,^{1,3} L.E. Felkin,¹ P. Sarathchandra,¹ R. George,^{1,2} J.L. Hall,⁴ M.H. Yacoub,¹ N. Rosenthal,^{1,3} E.J. Birks,^{1,2} P.J. Barton,¹ ¹Harefield Heart Science Centre, Imperial College London, Harefield, Middlesex, United Kingdom; ²Harefield Hospital, Royal Brompton and Harefield NHS Trust, Harefield, Middlesex, United Kingdom; ³Mouse Biology Unit, European Molecular Biology Laboratory, Monterotondo, Roma, Italy; ⁴Department of Medicine, Cardiovascular Division, University of Minnesota, Minneapolis, MN

(445) Will Heart Transplant Candidates in Eurotransplant Urgent Status with Mechanical Circulatory Support Survive More Than Those in Urgent Status without It?; T. Komoda,¹ H.B. Lehmkuhl,¹ R. Hetzer,¹ ¹Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany

(446) Successful Subzero Non-Freezing Preservation of Rat Lungs with Supercooling Technology; T. Okamoto,¹ T. Nakamura,¹ J. Zhang,¹ A. Aoyama,¹ N. Satoda,¹ A. Takahashi,¹ X. Zhao,¹ F. Chen,¹ T. Fujinaga,¹ H. Hamakawa,¹ T. Shoji,¹ H. Sakai,¹ H. Wada,¹ T. Bando,¹ ¹Department of Thoracic Surgery and Department of Organ Preservation Technology, Kyoto University, Kyoto, Japan

(447) Impact of the New Lung Allocation System in the US: A Single Center Study; R.R. Hachem,¹ R.D. Yusen,¹ B.F. Meyers,² A. Patterson,² E.P. Trulock,¹ ¹Pulmonary Critical Care, Washington University School of Medicine, St. Louis, MO; ²Thoracic Surgery, Washington University School of Medicine, St. Louis, MO

(448) Alternative Measures of Donor:Recipient Size Matching – How Useful Are They?; C.A. Rogers,¹ T. Alfred,¹ R.S. Bonser,¹ N.R. Banner,¹ ¹On Behalf of the Steering Group, UK Cardiothoracic Transplant Audit, Clinical Effectiveness Unit, The Royal College of Surgeons of England, London, United Kingdom

(449) Celsior for Graft Preservation in Clinical Lung Transplantation; B. Gohrbandt,¹ A.R. Simon,¹ S. Fischer,¹ C. Hagl,¹ J. Gottlieb,² T. Welte,² A. Haverich,¹ M. Strueber,¹ ¹Department of Cardiothoracic, Transplantation and Vascular Surgery, Medical School Hannover, Hannover, Germany; ²Department of Respiratory Medicine, Medical School Hannover, Hannover, Germany

(450) The Successful Introduction of Donor Care Physiologists into Intra-Operative Management of Multi-Organ Donors; F. Falter,¹ A.M. Ingle,¹ M. Goddard,³ G. Betts,² K. Glodsmith,⁴ S. Tsui,² ¹Department of Anaesthesia and Intensive Care, Papworth Hospital, Cambridge, United Kingdom; ²Transplant Unit, Papworth Hospital, Cambridge, United Kingdom; ³Department of Pathology, Papworth Hospital, Cambridge, United Kingdom; ⁴RD Department, Papworth Hospital, Cambridge, United Kingdom

(451) Endothelial Dysfunction after Long Term Cold Storage in HTK Organ Preserving Solutions – Effects of Iron Chelators; T. Radovits,¹ J. Zotkina,¹ L.-N. Lin,¹ A. Koch,¹ U. Rauen,² M. Karck,¹ G. Szabó,¹ ¹Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany; ²Institute of Physiological Chemistry, University Hospital Essen, Essen, Germany

(452) Non-Utilization of Donor Organs for Non Medical Reasons – Impact on Patients Waiting for Heart and Lung Transplantation; C. Van De Wauwer,¹ M. Villavicencio,¹ N. Wrightson,¹ T. Butt,¹ J.H. Dark,¹ S.C. Clark,¹ T. Pillay,¹ K. Tocewicz,¹ S. Ledingham,¹ J. Forty,¹ S. Schueler,¹ ¹Department of Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, United Kingdom

(453) Lung Allograft Evaluation of Rejected Extended Criteria Donors; C.H. Wigfield,^{1,2} J.D. Lindsey,¹ J. Anderson,¹ R.B. Love,^{2,3} ¹Cardiopulmonary Transplantation, University Wisconsin Hospitals, Madison, WI; ²Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, England, United Kingdom; ³Thoracic and Cardiovascular Surgery, Loyola University Medical Center, Maywood, IL

(454) Biliwerdin-Supplementation into the Preservation Solution Prevents Lung Cold Ischemia/Reperfusion Injury; R. Sugimoto,¹ A. Nakao,¹ J. Kohmoto,¹ Y. Wang,¹ T.R. Billiar,² K.R. McCurry,¹ ¹Department of Surgery, Heart, Lung and Esophageal Surgery Institute, Thomas E. Starzl Transplantation Institute, University of Pittsburgh, Pittsburgh, PA; ²Department of Surgery, University of Pittsburgh, Pittsburgh, PA

(455) Myocardial Perfusate Delivery during Cardiac Storage with a Perfusion Device; M. Peltz,¹ D.H. Rosenbaum,¹ L. West,¹ M.L. Cobert,¹ M.E. Jessen,¹ ¹Cardiovascular and Thoracic Surgery, UT Southwestern Medical Center, Dallas, TX

(456) Echo or Levo EF in Older Donor Hearts; Is the Echo EF Sufficient?; O. Grauhan,¹ M. de la Chevalerie,¹ F. Polster,² G. Schmidt,¹ R. Krueger,² C. Wesslau,² R. Hetzer,¹ ¹Heart-, Lung- and Thorax Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Deutsche Stiftung Organtransplantation, Region Nord Ost, Berlin, Germany

(457) Transforming the “Unacceptable” Donor: Fifteen Years Later; M. Berman,¹ A. Barker,¹ G. Betts,¹ C. Sudarshan,¹ K. Dhital,¹ D.P. Jenkins,¹ S.R. Large,¹ S. Tsui,¹ ¹Transplant Unit, Papworth Hospital, Papworth Everard, Cambridge, United Kingdom

(458) Ischemic Tolerance of Older Donor Hearts in a Rat Transplantation Model; G. Szabó,¹ N. Stumpf,¹ M. Karck,¹ A. Lichtenberg,¹ ¹Cardiac Surgery, University of Heidelberg, Heidelberg, Germany

(459) Azithromycin Attenuates Lipopolysaccharide-Mediated Release of Interleukin-8 and GM-CSF from Primary Bronchial Epithelial Cells Derived from Stable Lung Transplant Recipients; D.M. Murphy, I.A. Forrest, P.A. Corris, G.E. Johnson, D. Jones, T. Small, A.J. Fisher, J.J. Egan, T.E. Cawston, J.L. Lordan, C. Ward ¹The Applied Immunobiology and Transplantation Research Group, The University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United Kingdom; ²The Musculoskeletal Research Group, The University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United Kingdom; ³The Irish Lung Transplant Programme, The Mater Misericordiae Hospital, Dublin, Ireland

(460) Inhibition of Restenosis Development by a Novel Drug-Eluting Stent Coated with the Immunosuppressive Leflunomide: Distinct Inhibition of Endothelial and Smooth Muscle Cells; T. Deuse,¹ R.G. Erben,² B. Behnisch,³ F. Ikeno,⁴ A. Connolly,⁵ R.C. Robbins,¹ S. Schrepfer,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA; ²Institute for Pathophysiology, University Vienna, Vienna, Austria; ³Translumina GmbH, Hechingen, Germany; ⁴CV Medicine, Stanford University School of Medicine, Stanford, CA; ⁵Pathology, Stanford University School of Medicine, Stanford, CA

(461) Prevention and Inhibition but Not Reversion of Chronic Allograft Vasculopathy by FK778; T. Deuse,¹ G. Hoyt,¹ T. Koyanagi,² R.C. Robbins,¹ S. Schrepfer,¹ ¹Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA; ²Chemical and Systems Biology, Stanford University, Stanford, CA

(462) Prevention of Acute Rejection with a Novel Syk Inhibitor; W. Stein,¹ S. Schrepfer,¹ K. Van Der Bogt,¹ K. Kiely,¹ G. Hoyt,¹ E. Masuda,² V. Taylor,² R.C. Robbins,¹ ¹Department of Cardiothoracic Surgery, Stanford University, Stanford, CA; ²Rigel Pharmaceuticals, South San Francisco, CA

(463) The Effect of Calcineurin Inhibition on Vasomotor Function and Visfatin Expression; E. Tepperman,¹ J. Lazier,¹ L. Tumiati,¹ D. Ramzy,¹ M. Badiwala,¹ R. Sheshgiri,¹ J. Jackman,¹ H. Ross,¹ V. Rao,¹ ¹Division of Cardiovascular Surgery and Heart Transplant Program, Toronto General Hospital, University Health Network, Toronto, ON, Canada

(464) Oxidative Stress Induced by TGF-beta Uniformly Influences the Development of Chronic Allograft Nephropathy in Organ Transplantation; A.K. Khanna,¹ M.R. Mehra,¹ ¹Medicine (Cardiology), University of Maryland, Baltimore, MD

(465) More Adverse Events Leading to Drug Dose Adjustment/Interruption in the Presence of MMF- vs Everolimus-Based Immunosuppression in De Novo Heart Transplant Patients; E. Vermes,¹ L. Almenar,² M. Viganò,³ M. MacCherini,⁴ A. Poncelet,⁵ M.-F. Mattei,⁶ T. Dengler,⁷ J. Delgado,⁸ J. Vanhaecke,⁹ M. Hexham,¹⁰ K. Mange,¹⁰ ¹Hôpital Henri Mondor, Creteil, France; ²Hospital Universitario La Fe, Valencia, Spain; ³Policlinico S. Matteo - IRCCS Università degli Studi di Pavia, Pavia, Italy; ⁴A.O. Universitaria Senese Policlinico Le Scotte, Siena, Italy; ⁵Cliniques Universitaires Saint-Luc, Brussels, Belgium; ⁶CHU Hôpital de Brabois, Vandoeuvre les Nancy, France; ⁷Univ. Klinikum Heidelberg, Heidelberg, Germany; ⁸Hospital 12 de Octubre, Madrid, Spain; ⁹UZ Gasthuisberg, Leuven, Belgium; ¹⁰Novartis Pharmaceuticals Corporation, East Hanover, NJ

(466) Hospitalization Days Due to Major Cardiac Events (MACE) in De Novo Heart Transplant Recipients: Data from a 12-Month, Multicenter, Randomized Trial of Everolimus Versus MMF; H. Lehmkuhl,¹ J. Arizon,² L. Almenar,³ C. Magelli,⁴ G. Gerosa,⁵ S. Varnous,⁶ F. Musumeci,⁷ M.-F. Mattei,⁸ J. Vanhaecke,⁹ K. Mange,¹⁰ G. Machnicki,¹⁰ ¹Deutsches Herzzentrum Berlin, Berlin, Germany; ²Hospital Universitario Reina Sofia, Córdoba, Spain; ³Hospital Universitario La Fe, Valencia, Spain; ⁴Az. Osp. di Bologna Policl. S. Orsola - Malpighi, Bologna, Italy; ⁵Azienda Ospedaliera di Padova - Università degli Studi, Padova, Italy; ⁶Hôpital Pitié Salpêtrière, Paris, France; ⁷Ospedale S. Camillo-Forlanini - Azienda Ospedaliera, Paris, Rome, Italy; ⁸CHU Hôpital de Brabois, Vandoeuvre les Nancy, France; ⁹UZ Gasthuisberg, Leuven, Belgium; ¹⁰Novartis Pharmaceuticals Corporation, East Hanover, NJ

(467) The Impact on Renal Function of an Early Reduction of Cyclosporine in De Novo Cardiac Transplant under MMF: Results of a French Multicenter Prospective Randomized Study; P. Boissonnat,¹ F. Noel-Baron,² S. Gaillard,² C. Mercier,³ Low Cyclo Study Group,⁴ A. Roussoulières,¹ L. Sebbag,¹ O. Bastien,¹ M. Redonnet,⁵ B. Lelong,⁶ M.-F. Mattei,⁷ A. Mouly-Bandini,⁸ M. Treilhaud,⁹ S. Pattier,⁹ A. Sirinelli,¹⁰ E. Epailly,¹¹ J.-C. Thiranos,¹¹ S. Varnous,¹² M.-A. Billes,¹³ ¹Unité de Transplantation Cardiaque, Hôpital Cardiovasculaire et Pneumologique, CHU de Lyon, Bron, France; ²CIC 201, INSERM-CHU de Lyon, Bron, France; ³Service de Biostatistique-UMR CNRS5558, CHU de Lyon, Lyon, France; ⁴Centres Hospitaliers et Universitaires, France, France; ⁵CHU, Rouen, France; ⁶CHU, Rennes, France; ⁷CHU, Nancy, France; ⁸CHU, Marseille, France; ⁹CHU, Nantes, France; ¹⁰CHU, Tours, France; ¹¹CHU, Strasbourg, France; ¹²CHU, Paris, France; ¹³CHU, Bordeaux, France

(468) Immunosuppression with Everolimus in Cardiac Transplant Patients with Calcineurin Inhibitor-Associated Renal Dysfunction; A. Costard-Jaeckle,¹ L. Baholli,¹ S. Meyer,¹ F. Wagner,¹ H. Reichenspurner,¹ ¹University Heart Center, Hamburg, Germany

(469) Randomized, Prospective, Open Label Study of Gastrointestinal Symptoms after Conversion from Mycophenolate Mofetil (Cellcept™) to Enteric Encapsulated Mycophenolic Acid (Myfortic™) Following Lung Transplantation; B.A. Johnson,¹ S.M. Studer,¹ M.M. Crespo,¹ J.B. Kim,¹ J.M. Pilewski,¹ K.R. McCurry,² ¹Department of Medicine, University of Pittsburgh, Pittsburgh, PA; ²Department of Surgery, University of Pittsburgh, Pittsburgh, PA

(470) Everolimus Reduces the Risk of Humoral Rejection in De-Novo HTx Recipients Compared to MMF Treated Patients; H.B. Lehmkuhl,¹ N.E. Hiemann,¹ M. Dandel,¹ D. Mai,¹ C. Knosalla,¹ O. Grauhan,¹ R. Meyer,¹ M. Pasic,¹ M. Huebler,¹ Y. Weng,¹ R. Hetzer,¹ ¹Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany

(471) Utility of Basiliximab Induction at Mid-Term Follow-Up; D.H. Rosenbaum,¹ J. Mitchell,¹ B. Adams,¹ P. Kaiser,¹ D.M. Meyer,¹ M.E. Jessen,¹ M.A. Wait,¹ M.H. Drazner,¹ W.S. Ring,¹ J.M. DiMaio,¹ ¹UT Southwestern Medical Center, Dallas, TX

(472) Recovery of Pulmonary Function with Pumpless Extracorporeal Lung Assist (PECLA); C. Schmid,¹ A. Philipp,¹ S. Hirt,¹ B. Flörchinger,¹ A. Klose,¹ T. Mueller,² K. Lehle,¹ F.-X. Schmid,¹ D. Birnbaum,¹ M. Hilker,¹ ¹Dept. of Cardiothoracic Surgery, University Hospital Regensburg, Regensburg, Germany; ²Dept. of Anesthesiology, University Hospital Regensburg, Regensburg, Germany

(473) Transcriptional Profiling of Short and Long-Term Cultured Mesenchymal Stem Cells from Patients Undergoing CABG; M.B. Will,¹ J.C. Mountford,² W.N. Keith,³ A.J. Murday,¹ ¹Department of Cardiac Surgery, Glasgow Royal Infirmary, Glasgow, United Kingdom; ²Section of Experimental Haematology and Haematopoietic Stem Cells, University of Glasgow, Glasgow, United Kingdom; ³Centre for Oncology and Applied Pharmacology, University of Glasgow, Glasgow, United Kingdom

(474) Identification of Cells Expressing the Isl1 Cardiac Progenitor Marker in Miniature Swine; A.J. Meltzer,¹ S.L. Houser,¹ J.C. Madsen,¹ K.R. Chien,² M.E. Cochrane,¹ J.S. Allan,³ B.R. Rosengard,¹ ¹Cardiothoracic Surgery, Massachusetts General Hospital, Boston, MA; ²Cardiovascular Research Center, Massachusetts General Hospital, Boston, MA

(475) Treatment of Decellularized Porcine Heart Valve Tissue with Porcine Native Proteins Prevents Granulocyte Adhesion and Activation; F. Bastian,^{1,2} M.-E. Stelzmueller,¹ M.-T. Kasimir,¹ P. Simon,¹ G. Weigel,^{1,2} ¹Cardio-Thoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Ludwig Boltzmann Institute for Cardiovascular Research, Vienna, Austria

(476) The Use of the Impella RD as Bridge to Recovery for Right Ventricular Dysfunction Post Cardiac Transplantation; M.T. Bennett,¹ S.A. Virani,¹ J.B. Bowering,³ A. Ignaszewski,¹ A.-M. Kaan,¹ A. Cheung,² ¹Cardiology, St. Paul's Hospital, Vancouver, BC, Canada; ²Cardiovascular Surgery, St. Paul's Hospital, Vancouver, BC, Canada; ³Anesthesiology, St. Paul's Hospital, Vancouver, BC, Canada

(477) A Provocative Combination: Ventricular Assist Devices, Personality Disorders and Ethics; R.J. Petrucci,¹ L.A. Bennish,² J.W. Entwistle,² S.R. Hankins,³ H.J. Eisen,³ ¹Psychiatry and Medicine, Drexel University College of Medicine, Philadelphia, PA; ²Cardiothoracic Surgery, Drexel University College of Medicine, Philadelphia, PA; ³Medicine, Drexel University College of Medicine, Philadelphia, PA

(478) Ethical Considerations for Cardiac Ventricular Assist Device Support: A 12 Point Protocol; R.J. Petrucci,¹ L.A. Benish,² J.W. Entwistle,² S.R. Hankins,³ H.J. Eisen,³ ¹Psychiatry and Medicine, Drexel University College of Medicine, Philadelphia, PA; ²Cardiothoracic Surgery, Drexel University College of Medicine, Philadelphia, PA; ³Medicine, Drexel University College of Medicine, Philadelphia, PA

(479) Physical Activities in Daily Life Remain Abnormal 1 Year after Lung Transplantation; D. Langer,^{1,2} F. Dobbels,³ F. Pitta,⁴ C. Burtin,^{1,2} G. Verleden,² L. Dupont,² M. Decramer,^{1,2} R. Gosselink,^{1,2} T. Troosters,^{1,2} ¹Faculty of Kinesiology and Rehabilitation Sciences, Dept. Rehabilitation Sciences, Katholieke Universiteit Leuven, Leuven, Belgium; ²Respiratory Rehabilitation and Respiratory Division, Katholieke Universiteit Leuven, Leuven, Belgium; ³Center for Health Services and Nursing Research, Katholieke Universiteit Leuven, Leuven, Belgium; ⁴Dept. Physiotherapy, Universidade Estadual de Londrina, Londrina, Belgium

(480) Adherence, Perceived Health Status and Psychological Functioning More Than 3 Years after Lung Transplantation; F. Dobbels,¹ C. Perremans,¹ L. Dupont,² ¹Center for Health Services and Nursing Research, Katholieke Universiteit Leuven, Leuven, Belgium; ²Lung Transplantation Program, University Hospitals of Leuven, Leuven, Belgium

- (481) Quality of Life after Paediatric Heart Transplantation – Do Children and Their Parents Agree?; J. Wray,¹ T. Lunnon-Wood,¹ ¹Cardiothoracic Transplantation, Great Ormond Street Hospital for Children NHS Trust, London, United Kingdom
- (482) A Virtual Community for Post-Transplant Pediatric Patients; K. Satoh,¹ E.D. Blume,² D.R. DeMaso,³ J.M. Gonzalez-Heydrich,³ M. Bers,¹ ¹Developmental Technologies Research Group, Eliot-Pearson Department of Child Development, Tufts University, Medford, MA; ²Department of Cardiology, Children's Hospital Boston, Boston, MA; ³Department of Psychiatry, Children's Hospital Boston, Boston, MA
- (483) Demonstration of Improvement in Health-Related Quality of Life Post Lung Transplantation: Results Based on the Health Utilities Index (HUI); M.-J. Santana,¹ D. Feeny,² K. Jackson,³ J. Weinkauff,⁴ D. Lien,⁵ ¹School of Public Health, University of Alberta, Edmonton, AB, Canada; ²Centre for Health Research, Kaiser Permanente Northwest, Portland, OR; ³Lung Transplant Program, University of Alberta, Edmonton, AB, Canada; ⁴Lung Transplant Program, University of Alberta, Edmonton, AB, Canada; ⁵Lung Transplant Program, University of Alberta, Edmonton, AB, Canada
- (484) Are Patients Working at 5 to 10 Years after Heart Transplantation?; C. White-Williams,¹ K.L. Grady,² E. Wang,³ J.B. Young,⁴ D. Pelegrin,⁴ J. Czerr,⁴ J. Kobashigawa,⁵ J. Chait,⁵ A. Heroux,⁶ R. Higgins,⁷ B. Rybarczyk,⁸ M. McLeod,⁷ D.C. Najfel,¹ S. Myers,¹ J.K. Kirklin,¹ ¹Nursing, Cardiovascular Surgery, University of Alabama at Birmingham, Birmingham, AL; ²Cardiothoracic Surgery, Northwestern University, Chicago, IL; ³Center on Outcomes, Research, and Education, Evanston Northwestern Healthcare Northwestern University, Evanston, IL; ⁴Cardiology, Cleveland Clinic, Cleveland, OH; ⁵Division of Clinical Faculty Medicine, University of California, Los Angeles, Los Angeles, CA; ⁶Cardiology, Loyola University Medical Center, Maywood, IL; ⁷Cardiovascular-Thoracic Surgery, Rush University Medical Center, Chicago, IL; ⁸Psychology, Virginia Commonwealth University, Richmond, VA
- (485) Innovative Dressing Receives Acclaim from LVAD Patients: A Patient Survey; M. Fisher,¹ C.N. Madsen,¹ L.N. Janicki,¹ S. Stoker,¹ K.A. McCloy,¹ C.R. Hanny,¹ M. Moses,¹ M.R. Bonnell,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT
- (486) Cognitive Impairment in Heart Failure: It Is More Than Just Depression; J.R. Festa,¹ P.A. Shapiro,² D.M. Mancini,³ E.R. Lantz,¹ M.C. Deng,³ Y. Naka,⁴ R.M. Lazar,^{1,5} ¹Neurology, Columbia University Medical Center, College of Physicians and Surgeons, New York, NY; ²Psychiatry, Columbia University Medical Center, College of Physicians and Surgeons, New York, NY; ³Medicine - Cardiology, Columbia University Medical Center, College of Physicians and Surgeons, New York, NY; ⁴Surgery, Columbia University Medical Center, College of Physicians and Surgeons, New York, NY; ⁵Neurosurgery, Columbia University Medical Center, College of Physicians and Surgeons, New York, NY
- (487) Longitudinal Assessment of Non-Adherence with Lung Function Monitoring after Lung Transplantation; C. Kugler,¹ A. Simon,¹ M. Strueber,¹ T. Welte,² A. Haverich,¹ J. Gottlieb,² ¹Cardiothoracic and Transplant Surgery, Hannover Thoracic Transplant Program, Hannover Medical School, Hannover, Germany; ²Respiratory Medicine, Hannover Thoracic Transplant Program, Hannover Medical School, Hannover, Germany
- (488) Novel LVAD Driveline Dressing Promotes Stability and Healing; S. Stoker,¹ C. Hanny,¹ C. Madsen,¹ L. Janicki,¹ K. McCloy,¹ W. Perry,¹ R. Huff,¹ M. Moses,¹ M. Bonnell,¹ B. Reid,¹ S. Clayson,¹ A.G. Kfoury,¹ J.W. Long,¹ ¹Utah Artificial Heart Program, Intermountain Medical Center, Salt Lake City, UT
- (489) Influence of LVAD Support in Pediatric Patients on Outcome during Transplant Waiting-Time; S. Klotz,¹ T.T.D. Tjan,¹ O. Sezer,¹ V. Debus,² S.H. Daebritz,¹ H.H. Scheld,¹ ¹Dept. of Thoracic and Cardiovascular Surgery, University Hospital Muenster, Muenster, Germany; ²Dept. of Pediatric Cardiology, University Hospital Muenster, Muenster, Germany
- (490) Current Outcomes for Lung Transplantation in Children with Cystic Fibrosis; J.M. Robertson,¹ M.G. Schecter,¹ E.D. McKenzie,² J.S. Heinle,² D.L. Morales,² G.B. Mallory,¹ O. Elidemir,¹ ¹Pediatric Pulmonology, Baylor College of Medicine, Houston, TX; ²Congenital Heart Surgery, Baylor College of Medicine, Houston, TX
- (491) Hypogammaglobulinemia after Pediatric Lung Transplantation; J.M. Robertson,¹ M.G. Schecter,¹ G.B. Mallory,¹ J.S. Heinle,² E.D. McKenzie,² D.L. Morales,² O. Elidemir,¹ ¹Pediatric Pulmonology, Baylor College of Medicine, Houston, TX; ²Congenital Heart Surgery, Baylor College of Medicine, Houston, TX
- (492) Monitoring for PTLD in Children after Lung Transplantation; O. Elidemir,¹ B.S. Kancherla,¹ M.G. Schecter,¹ E.D. McKenzie,² J.S. Heinle,² D.L. Morales,² G.B. Mallory,¹ ¹Pediatric Pulmonology, Baylor College of Medicine, Houston, TX; ²Congenital Heart Surgery, Baylor College of Medicine, Houston, TX

- (493) The Failed Pediatric Cardiac Allograft: Clinical and Pathologic Features; G.S. Perens,¹ S. Meier,¹ R. Kaur,¹ F. Li,² M.C. Fishbein,² ¹Pediatrics, Mattel Childrens' Hospital at UCLA Medical Center, Los Angeles, CA; ²Department of Pathology, UCLA Medical Center, Los Angeles, CA
- (494) Cardiac Transplantation for the Failing Fontan Circulation; P. Botha,¹ M. Chaudhari,² N. Wrightson,¹ G. Parry,¹ M. Griselli,¹ L. Hamilton,¹ J.H. Dark,¹ A. Hasan,¹ ¹Department of Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom; ²Department of Paediatric Cardiology, Freeman Hospital, Newcastle upon Tyne, Tyne and Wear, United Kingdom
- (495) Predictors of Acute Right Heart Failure after Pediatric Cardiac Transplant and Long Term Outcome; A. Hoskote, C. Carter, P. Rees, M. Burch, K. Brown ¹Cardiothoracic Unit, Great Ormond Street Hospital NHS Trust, London, United Kingdom
- (496) Lung Transplantation in Infants, Toddlers, and Young Children; M.G. Schecter,¹ G.B. Mallory,¹ E.D. McKenzie,² J.S. Heinle,² D.L. Morales,² O. Elidemir,¹ ¹Pediatric Pulmonary Medicine, Baylor College of Medicine, Houston, TX; ²Congenital Heart Surgery, Baylor College of Medicine, Houston, TX
- (497) The Non-Invasive Doppler Derived Tei-Index May Differentiate between Patients with and without Coronary Allograft Vasculopathy (CAV) in Pediatric Heart Transplant Recipients; S. Schubert,¹ H.B. Lehmkühl,² M. Abd El Rahman,¹ H. Abdul-Khalik,¹ R. Meyer,³ N. Hiemann,² R. Hetzer,² F. Berger,¹ ¹Congenital Heart Defects/Pediatric Cardiology, Deutsches Herzzentrum Berlin, Berlin, Germany; ²Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany; ³Pathology, Deutsches Herzzentrum Berlin, Berlin, Germany
- (498) Mechanical Circulatory Support for Severe Primary Graft Dysfunction Following Pediatric Cardiac Transplantation; C.S. Almond,¹ F. Fynn-Thompson,² L.B. Smoot,¹ J.M. Elder,¹ E.D. Blume,¹ J.E. Mayer,² R.R. Thiagarajan,¹ ¹Cardiology, Children's Hospital Boston, Boston, MA; ²Cardiac Surgery, Children's Hospital Boston, Boston, MA
- (499) Long-Term Impact of Respiratory Viral Infection after Pediatric Lung Transplantation; M. Liu,¹ S. Worley,¹ G.B. Mallory, Jr.,² M.G. Schecter,² J. Roberston,² O. Elidemir,² L. Danziger-Isakov,¹ ¹Cleveland Clinic, Cleveland Clinic Lerner College of Medicine, Cleveland; ²Baylor College of Medicine, Texas Children's Hospital, Houston
- (500) Immunohistochemical Evidence for Humoral Rejection Following Infant Lung Transplantation; T.L. Astor,¹ M. Galantowicz,¹ P. Baker,¹ ¹Lung and Heart-Lung Transplant Program, Nationwide Children's Hospital, Columbus, OH
- (501) HLA Sensitization in Pediatric Pre-Transplant Cardiac Patients on Mechanical Assist Devices; J. Yang,¹ C. Schall,² D. Smith,² L. Kreuser,² M. Zamberlan,¹ K. King,¹ R. Gajarski,¹ ¹Pediatrics (Cardiology), University of Michigan, Ann Arbor, MI; ²Histocompatibility and Immunogenetics, University of Michigan, Ann Arbor, MI
- (502) Outcomes of Pediatric Heart Transplant Recipients Transitioned to Adult Transplant Centers; M.E. McBride,¹ S.L. Moorhead,¹ T. Boschert,¹ G.A. Ewald,² S.K. Gandhi,³ C.B. Huddleston,³ C.E. Canter,¹ ¹Department of Pediatrics, Washington University, Saint Louis, MO; ²Department of Internal Medicine, Washington University, Saint Louis, MO; ³Department of Surgery, Washington University, Saint Louis, MO
- (503) Serum Creatinine Is a Limited Indicator of Renal Function in Pediatric Heart Transplantation; B. Feingold,¹ K.B. Schechtman,² Y.M. Law,³ R.L. Spicer,⁴ T.M. Hoffman,⁵ R.K. Darragh,⁶ A. Asante-Korang,⁷ H. Finney,⁸ J. Zheng,² P. Hmiel,⁹ C.E. Canter,⁹ ¹Heart and Heart-Lung Transplantation, Children's Hospital of Pittsburgh, Pittsburgh, PA; ²Division of Biostatistics, Washington University School of Medicine, St. Louis, MO; ³Pediatric Cardiology, University of Washington/Children's Hospital and Regional Medical Center, Seattle, WA; ⁴Division of Cardiology, Cincinnati Children's Hospital, Cincinnati, OH; ⁵Columbus Children's Heart Center, The Ohio State University College of Medicine, Columbus, OH; ⁶Pediatric Cardiology, Riley Children's Hospital, Indianapolis, IN; ⁷Pediatric Cardiology, University of South Florida/All Children's Hospital, St. Petersburg, FL; ⁸Clinical Biochemistry, Royal London Hospital, London, United Kingdom; ⁹Pediatrics, Washington University School of Medicine, St. Louis, MO
- (504) Dilated Cardiomyopathy and Listing for Heart Transplantation: A Multi-Institutional Study; R. Kirk,¹ D. Naftel,² T. Hoffman,³ C. Almond,⁴ G. Boyle,⁵ R.L. Caldwell,⁶ J.K. Kirklin,² J. Flett,¹ A.I. Dipchand,⁷ ¹Freeman Hospital, Newcastle upon Tyne, United Kingdom; ²University of Alabama at Birmingham, Birmingham; ³Nationwide Children's Hospital, Columbus; ⁴Children's Hospital, Boston; ⁵Cleveland Clinic, Cleveland; ⁶Riley Hospital for Children, Indianapolis; ⁷Hospital for Sick Children, Toronto, Canada
- (505) Prognostic Value of Serial Measurements of NT-proBNP in Children with Heart Failure; P. Rusconi,¹ D.D. Kinnamon,¹ C. Ratnasamy,¹ S.E. Lipshultz,¹ ¹Pediatrics, Leonard M. Miller School of Medicine, University of Miami, Miami, FL

(506) Comparison of Impedance Cardiography to Thermodilution Cardiac Output Determination in Pediatric Heart Transplant Patients; B.B. Das,¹ S. Doyle,¹ L. Baker,¹ C. Smith,¹ M. Recto,¹ ¹*Division of Pediatric Cardiology, Department of Pediatrics, Kochair Children Hospital, University of Louisville, Louisville, KY*

(507) Low Cylex™ Immune Response Associated with Increased Risk of Infection in Pediatric Heart Transplants; A.P. Barnes,¹ S.M. Daneman,¹ K.J. Guleserian,² W.S. Ring,³ D.E. Fixler,¹ ¹*Pediatrics, UT Southwestern/Childrens Medical Center, Dallas, TX;* ²*Cardiothoracic Surgery, UT Southwestern/Childrens Medical Center, Dallas, TX;* ³*Cardiothoracic Surgery, UT Southwestern, Dallas, TX*

(508) Heart Transplantation for Failed Fontan Circulation; F. Fynn-Thompson,¹ C.S. Almond,² H. Bastardi,² K. Gauvreau,² T.P. Singh,² L.B. Smoot,² E. Bacha,¹ F. Pigula,¹ J.E. Mayer,¹ P. del Nido,¹ E.D. Blume,² ¹*Cardiac Surgery, Children's Hospital Boston, Boston, MA;* ²*Cardiology, Children's Hospital Boston, Boston, MA*

(509) Ebstein-Barr and ParvoB19 Viruses Are Risk Factors for Late Onset Microvasculopathy after Heart Transplantation; N.E. Hiemann,¹ K. Klingel,² E. Wellnhofer,³ S. Dreysse,³ H.B. Lehmkuhl,¹ C. Knosalla,¹ R. Kandolf,² R. Hetzer,¹ R. Meyer,¹ ¹*Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum Berlin, Berlin, Germany;* ²*Department of Molecular Pathology, University Hospital of Tuebingen, Tuebingen, Germany;* ³*Department of Cardiology, Deutsches Herzzentrum Berlin, Berlin, Germany*

(510) Potential Effect of Grouping Grades 1B with 1A in the Revised ISHLT Cardiac Biopsy Grading System; A.N. Bilolikar,¹ T.M. Koelling,¹ K.D. Aaronson,¹ D.B.S. Dyke,¹ D. Gordon,¹ J.C. Matthews,¹ S.L. Hummel,¹ A.H. Wu,¹ ¹*Cardiovascular Medicine, University of Michigan, Ann Arbor, MI*

6:15 PM - 7:15 PM

RESIDENT/FELLOW COUNCIL MEETING (Room 300)

8:00 PM – 10:00 PM

GALA RECEPTION (Boston Public Library)

SATURDAY, APRIL, 2008

6:30 AM – NOON

Slide Ready Room Open (Room 301)

7:30 AM – 10:00 AM

Registration Open (Boylston Hallway 3rd Floor)

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 11: Mechanical Circulatory Support for the “Crash and Burn” Patient (Rooms 304-306)

Chairs: Tom MacGillivray, MD and Maryl Johnson, MD

7:00 AM Surgical Options for Acute Rescue, *Nicholas G. Smedira, MD, Cleveland Clinic Foundation, Cleveland, OH*

7:10 AM Salvage from a Cardiologist's Viewpoint, *Reynolds M. Delgado, MD, Texas Heart Institute, Houston, TX*

7:20 AM Bridge to Bridge Strategies, *Pascal Leprince, MD, La Pitie Saltpetriere, Paris, France*

7:30 AM Case presentations

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 12: Bronchiolitis Obliterans Syndrome (Room 312)

Chairs: Scott M. Palmer, MD and Allan R. Glanville, MD, FRACP

7:00 AM What is BOS in the 21st Century? *Geert M. Verleden, MD, PhD, University Hospital Gasthuisberg, Leuven, Belgium*

7:30 AM Evidence Basis for Treatment Approaches, *Gregory I. Snell, FRACP, MBBS, Alfred Hospital, Prahran, Australia*

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 13: Cardiac Transplantation: How to Treat the Sensitized Transplant Candidate (Room 302)

Chair: Donna M. Mancini, MD

Case Presentations

Mark W. Weston, MD, LifeLink Transplantation Institute, Tampa, FL

Gareth Parry, MB, FRCP, Freeman Hospital, Newcastle, United Kingdom

Manfred Hummel, MD, PhD, German Heart Institute, Berlin, Germany

Jignesh K. Patel, MD, PhD, UCLA, Los Angeles, CA

7:00 am – 8:00 am

SUNRISE SYMPOSIUM 14: Regulatory T-Cells in Thoracic Transplantation (Room 311)

Chairs: Thomas J. Dengler, MD and Satish N. Nadig, MD

7:00 AM How Best to Detect and Quantify Regulatory T-cells, *James F. George, PhD, University of Alabama at Birmingham, AL*

7:15 AM The Nature and Significance of T-regs in Patients, *Carla C. Baan, PhD, Erasmus MC, Rotterdam, The Netherlands*

7:30 AM Experimental Models Exploring Regulatory T-cells in Vascularized Models, *Thomas D. Wekerle, MD, University of Vienna, Austria*

7:45 AM Discussion

7:00 AM – 8:00 AM

SUNRISE SYMPOSIUM 15: Post Transplant Lymphoproliferative Disorders (Room 310)

Chairs: Mariell Jessup, MD and Richard Kirk, MD

7:00 AM How to Diagnose PTLN, *Marian G. Michaels, MD, Children's Hospital of Pittsburgh, Pittsburgh, PA*

7:20 AM Immunomodulation, *Eric Verschuuren, MD, University Medical Centre, Groningen, The Netherlands*

7:40 AM Antiviral Therapy and Chemotherapy, *Thomas R. Spitzer, MD, Massachusetts General Hospital, Boston, MA*

8:15 AM – 10:15 AM

PLENARY SESSION (Ballrooms A-C)

Chairs: Mandeep R. Mehra, MD and Randall C. Starling, MD, MPH

8:15 AM Awards Presentations, *Mark L. Barr, MD, University of Southern California, Los Angeles, CA*

8:25 AM Strategic Planning Report, *Paul A. Corris, MB, FRCP, ISHLT President*

8:35 AM INTERMACS Update, *James K. Kirklin, MD, University of Alabama at Birmingham, AL*

8:45 AM Invited Lecture: Evolving Support Systems for the Failing Lung, *Martin Strueber, MD, Hannover Medical School, Hannover, Germany*

9:05 AM (511) Featured Abstract: Selection of UNOS Status 1A Candidates for Mechanical Circulatory Support as Bridge-to-Transplantation (BTT) – Analysis of UNOS/OPTN 2000-2006; *K. Lietz,¹ M. Deng,¹ J. Morgan,¹ Y. Naka,¹ D. Mancini,¹ Divisions of Cardiology and Cardiothoracic Surgery, Columbia-Presbyterian Medical Center, New York, NY*

9:20 AM Invited Lecture: Evolving Mechanical Circulatory Support Technologies, *George Wieselthaler, MD, University of Vienna, Vienna, Austria*

9:40 AM (512) Featured Abstract: Predictors of Death and Transplant in Patients with a Mechanical Circulatory Support Device: A Multi-Institutional Study; *W.L. Holman,¹ R.L. Kormos,² M.A. Miller,³ F.D. Pagani,⁴ E. Blume,⁵ T. Cleeton,⁶ S.C. Koenig,⁷ D.C. Naftel,¹ J.K. Kirklin,¹ L. Edwards,⁸ ¹University of Alabama at Birmingham, Birmingham, AL; ²University of Pittsburgh, Pittsburgh, PA; ³National Heart Lung and Blood Institute, Rockville, MD; ⁴University of Michigan, Ann Arbor, MI; ⁵Childrens Hospital Boston, Boston, MA; ⁶Shands Hospital/University of Florida,*

Gainesville, FL; ⁷Jewish Hospital/University of Louisville, Louisville, KY; ⁸United Network for Organ Sharing, Richmond, VA

9:55 AM Invited Lecture: Approach to Coagulopathy and Bleeding with VADs, *Catherine Manno, MD, Children's Hospital of Pennsylvania, Philadelphia, PA*

10:15 AM – 10:30 AM

Coffee Break (Boylston Hallway 3rd Floor)

10:30 AM - NOON

CONCURRENT SESSION 41: Revelations about Rotary Pumps (Ballrooms A-C)

Chairs: Roland Hetzer, MD, PhD and Randall C. Starling, MD, MPH

10:30 AM (513) One Year Followup with a Continuous Flow LVAD as a Bridge to Heart Transplantation; *J.V. Conte,¹ L.W. Miller,² F.D. Pagani,³ S.D. Russell,⁴ K.D. Aaronson,³ R. John,⁴ A.J. Boyle,⁴ Y. Naka,⁵ D. Mancini,⁵ R.M. Delgado,⁶ T.E. MacGillivray,⁷ D.J. Farrar,⁸ O.H. Frazier,⁶ Johns Hopkins Hospital, Baltimore, MD; ²Georgetown University, Washington, DC; ³University of Michigan, Ann Arbor, MI; ⁴University of Minnesota, Minneapolis, MN; ⁵Columbia University, New York, NY; ⁶Texas Heart Institute, Houston, TX; ⁷Massachusetts General Hospital, Boston, MA; ⁸Thoratec Corporation, Pleasanton, CA*

10:45 AM (514) Long-Term Circulatory Support with the DuraHeart™ Mag-Lev Centrifugal Left Ventricular Assist System for Advanced Heart Failure Patients Eligible to Transplantation: European Experiences; *C. Nojiri, O. Fey, F. Jaschke, A. Medvedev, D. Munjal¹Terumo Heart, Inc., Ann Arbor, MI*

11:00 AM (515) Experience with the Novel Heartware HVAD with Hydromagnetically Levitated Rotor in a Multiinstitutional Trial; *G.M. Wieselthaler, M. Strueber, G.A. O'Driscoll, P. Jansz, A. Khaghani¹Dept. of Cardiothoracic Surgery, Medical University of Vienna, Vienna, Austria; ²Division of Thoracic and Cardiovascular Surgery, Hannover Medical Center, Hannover, Germany; ³Royal Perth Hospital, Perth, Australia; ⁴St. Vincent's Hospital, Darlinghurst, NSW, Australia; ⁵Harefield Hospital, Harefield, United Kingdom*

11:15 AM (516) Intermediate Term Effects of Continuous Flow Mechanical Circulatory Support on Right Ventricular Function; *A.S. Leet,¹ A. Ross,² D.S. Esmore,¹ D.M. Kaye,¹ Heart Failure and Transplant Unit, The Alfred Hospital, Melbourne, Victoria, Australia; ²Wynn Department of Cardiology, Baker Heart Institute, Melbourne, Victoria, Australia*

11:30 AM (517) Japanese Clinical Trial Results of an Implantable Centrifugal Blood Pump "EVAHEART"; *K. Yamazaki, S. Saito, T. Nishinaka, H. Kurosawa, T. Nakatani, J. Kobayashi, S. Kitamura, G. Matsumiya, S. Yoshiki, T. Nishimura, H. Niinami, S. Kyo¹Cardiovascular Surgery, Tokyo Women's Medical University, Shinjuku-ku, Tokyo, Japan; ²Cardiovascular Surgery, National Cardiovascular Center, Suita, Osaka, Japan; ³Cardiovascular Surgery, Osaka University, Suita, Osaka, Japan; ⁴Cardiovascular Surgery, Saitama Medical University, Moroyama Cho, Saitama, Japan; ⁵Cardiovascular Surgery, Tokyo University, Bunkyo ku, Tokyo, Japan*

11:45 AM (518) The VentrAssist LVAD as a Bridge to Cardiac Transplantation: Results of the U.S. Feasibility Trial; *A.J. Boyle,¹ B.P. Griffith,² D.D. Ascheim,^{3,4} Y. Naka,⁵ J.J. Teuteberg,⁶ E.D. Feller,⁷ L.D. Joyce,⁸ D.M. Mancini,³ R. John,⁸ J. Woodard,⁹ E. Moquete,⁴ K.N. Hong,⁴ M.K. Parides,⁴ A.J. Moskowitz,⁴ A.C. Gelijns,⁴ E.A. Rose,⁴ R.L. Kormos,¹⁰ ¹Medicine, University of Minnesota, Minneapolis, MN; ²Surgery, University of Maryland, Baltimore, MD; ³Medicine, Columbia University, New York, NY; ⁴International Center for Health Outcomes and Innovation Research, Columbia University, New York, NY; ⁵Surgery, Columbia University, New York, NY; ⁶Medicine, University of Pittsburgh, Pittsburgh, PA; ⁷Medicine, University of Maryland, Baltimore, MD; ⁸Surgery, University of Minnesota, Minneapolis, MN; ⁹Ventracor Ltd. (Trial Sponsor), Sydney, NSW, Australia; ¹⁰Surgery, University of Pittsburgh, Pittsburgh, PA*

10:30 AM - NOON

CONCURRENT SESSION 42: Percutaneous and Surgical Approaches to Cardiac Allograft Vasculopathy (Rooms 304-306)

Chairs: Michael Chan, MBBS, FRCPC and Marian Zembala, MD, PhD

10:30 AM (519) Correlates of Mortality and Major Events in Heart Transplant Recipients Treated by Coronary Stents for Transplant Vasculopathy; *F. Beygui,¹ S. Varnous,² N. Bonnet,² G. Montalescot,¹ F. Fernandez,² P. Leprince,² A. Pavié,² C. Aubailly,² J.P. Metzger,¹ I. Gandjbakhch,² ¹Cardiology, Pitié-Salpêtrière University Hospital, Paris, France; ²Cardiac Surgery, Pitié-Salpêtrière University Hospital, Paris, France*

10:45 AM (520) Superior Results of Drug Eluting Stent (DES) Compared with Bare Metal Stent (BMS) Implantation in Heart Transplant Recipients with Coronary Artery Disease; M. Zakliczynski,¹ M. Osuch,¹ M. Swierad,¹ M. Zembala,¹ *Silesian Center for Heart Disease, Zabrze, Poland*

11:00 AM (521) Cardiac Allograft Vasculopathy: Is There a Role for Percutaneous Coronary Intervention? A Single Centre Experience; P. Colombo,¹ G. Bruschi,¹ P.L. Silva,¹ A. Sacco,¹ F. Turazza,¹ M. Frigerio,¹ S. Klugmann,¹ A. De Gasperis,¹ *Cardiology and Cardiac Surgery Department, Niguarda Ca' Granda Hospital, Milan, Italy*

11:15 AM (522) Outcomes of Bare Metal Versus Drug Eluting Stents in Allograft Vasculopathy; P.R. Reddy,¹ A. Gulati,² J. Sinacore,³ L.H. Steen,¹ A.L. Heroux,¹ *Cardiology, Loyola University Medical Center, Maywood, IL; ²Medicine, Loyola University Medical Center, Maywood, IL; ³Preventative Medicine and Epidemiology, Loyola University Medical Center, Maywood, IL*

11:30 AM (523) Higher Rates of Co-Morbidities Post Cardiac Retransplantation Contribute to Decreased Survival; L. Tsao,¹ B. Burke,¹ Y. Naka,¹ M. Farr,¹ D. Mancini,¹ *Columbia University, New York, NY*

11:45 AM (524) Improving Survival after Repeat Heart Transplantation; JC Mullen,¹ MCY Chan,¹ PS Lo,¹ H Kanji,¹ MJ Kearns,¹ D Modry,¹ J Burton,¹ Y Coe,¹ D Kim,¹ L Lalonde,¹ W Tymchak,¹ L West,¹ *University of Alberta Hospital, Edmonton, Alberta, Canada*

11:45 AM (525) WITHDRAWN

10:30 AM - NOON

CONCURRENT SESSION 43: Markers and Mechanisms in Bronchiolitis Obliterans Syndrome (Room 312)

Chairs: Erik AM Verschuuren, MD, PhD and Antonio B. Roman, MD

10:30 AM (526) The Depletion of Resident/Non-Classical Monocytes Is Associated with a Rise in Circulating Dendritic Cells in Lung Transplant Recipients with Bronchiolitis Obliterans Syndrome; J.E. Fildes,¹ K. Rogacev,² A. Mitsidou,¹ S. Patel,¹ N. Yonan,¹ C.T. Leonard,¹ *The Transplant Centre, University Hospital of South Manchester NHS Foundation Trust, Wythenshawe Hospital, Manchester, United Kingdom*

10:45 AM (527) KIR Gene Content Recipient Associated with the Development of BOS after Lung Transplantation; J.M. Kwakkel-van Erp,¹ E.A. van de Graaf,¹ A.A.M. Paantjens,² W.G.J. van Ginkel,² G.D. Nossent,¹ D.A. van Kessel,³ J.M.M. van den Bosch,³ H.G. Otten,² *Respiratory Medicine, University Medical Center Utrecht, Utrecht, Netherlands; ²Immunology, University Medical Center Utrecht, Utrecht, Netherlands; ³Respiratory Medicine, Antonius Hospital, Nieuwegein, Netherlands*

11:00 AM (528) Evidence of Epithelial to Mesenchymal Transition Associated with Airway Remodeling after Experimental and Clinical Lung Transplantation; P.O. Mitchell,^{1,2} P.M. Naik,^{2,3} D.C. Neujahr,^{2,3} S.D. Force,^{3,4} A.M. Ramirez,^{2,3} A.A. Gal,⁵ E.C. Lawrence,^{2,3} D.M. Guidot,^{1,2} A. Pelaez,^{2,3} *Atlanta Veterans Affairs Medical Center, Decatur, GA; ²Pulmonary, Allergy and Critical Care Medicine, Emory University, Atlanta, GA; ³McKelvey Center for Lung Transplantation Pulmonary Vascular Diseases, Emory University, Atlanta, GA; ⁴Division of Cardiothoracic Surgery, Emory University, Atlanta, GA; ⁵Department of Pathology and Laboratory Medicine, Emory University, Atlanta, GA*

11:15 AM (529) Epithelial to Mesenchymal Transition (EMT) as an Indicator of Airway Wall Remodelling in Lung Transplant Patients; S. Hodge,¹ M. Holmes,^{1,2} B. Banerjee,³ G. Waterer,⁴ P. Reynolds,¹ G. Hodge,¹ D.C. Chambers,³ *Lung Research Laboratory, Hanson Institute, Adelaide, South Australia, Australia; ²South Australian Lung Transplant Service, Royal Adelaide Hospital, Adelaide, South Australia, Australia; ³Western Australian Lung Transplant Program, Royal Perth Hospital, Perth, Western Australia, Australia; ⁴Department of Respiratory Medicine, Royal Perth Hospital, Perth, Western Australia, Australia*

11:30 AM (530) Microarray Based Measurement of Autoantibodies Identifies Early Development of BOS in Lung Transplant Patients; P.H. Hagedorn,¹ C.M. Burton,² D. Steinbrüchel,² E. Sahar,³ H. Flyvbjerg,¹ M. Iversen,² *Biosystems Department, Risø National Laboratory, Technical University of Denmark, Roskilde, Denmark; ²Division of Lung Transplantation, The Heart Centre, Rigshospitalet, Copenhagen University Hospital, Copenhagen, Denmark; ³ImmunArray Ltd., Rehovot, Israel*

11:45 AM (531) Longitudinal Analysis of Exhaled Breath Condensate Biomarkers after Lung Transplantation; A. Krishnan,¹ S. Chow,² P.S. Thomas,² A.R. Glanville,¹ D.H. Yates,¹ *Thoracic Medicine and Lung Transplantation, St. Vincents Hospital, Sydney, NSW, Australia; ²Thoracic Medicine, University of New South Wales, Sydney, NSW, Australia*

10:30 AM - NOON

CONCURRENT SESSION 44: Lung Donors: Clinical Innovations (Room 302)

Chairs: Joshua Sonett, MD and Jason D. Christie, MD

10:30 AM (532) Donor Scoring Does Not Predict Early Outcome; M. Cypel,¹ E. Yildirim,¹ C. Boasquevisque,¹ M. Anraku,¹ V.T. Sales, D.E. Rodrigues, C. Payne, A. Pierre,¹ M. de Perrot,¹ S. Keshavjee,¹ T.K. Waddell,¹ ¹Thoracic Surgery, Toronto Lung Transplant Group, University of Toronto, Toronto, ON, Canada

10:45 AM (533) Risk Factors for Death in High LAS Patients after Lung Transplantation; C.A. Merlo,¹ J.B. Orens,¹ J.V. Conte,² A.S. Shah,² ¹Division of Pulmonary and Critical Care Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD; ²Cardiac Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD

11:00 AM (534) Eliminating Local for Some or All Lung Candidates Would Reduce Deaths in Nearly All Geographic Regions in the US; S. Murray,¹ J. Moore,² A.M. Rodgers,² T.H. Shearon,¹ D.B. Dyke,¹ R.M. Merion,¹ ¹SRTR, University of Michigan, Ann Arbor, MI; ²SRTR, Arbor Research, Ann Arbor, MI

11:15 AM (535) Post-Mortem and Ex-Vivo Nitric Oxide (NO) Ventilation Reduces Ischemia-Reperfusion Injury (IRI) in Rat Lungs Transplanted from Non-Heart-Beating Donors (NHBDs); B. Dong,¹ T. Egan,¹ ¹Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, NC

11:30 AM (536) Despite Decreasing Wait Times for Lung Transplantation, Lung Allocation Score Continues to Increase; M.J. Russo,^{1,2} D. Sternberg,¹ K.N. Hong,² A.J. Moskowitz,² A.C. Gelijs,² D.J. Lederer,³ J. Wilt,³ F. D'Ovidio,¹ S.M. Kawut,³ S.M. Arcasoy,³ J.R. Sonett,¹ ¹Surgery, Columbia University, New York, NY; ²International Center for Health Outcomes and Innovation, Columbia University, New York, NY; ³Medicine, Columbia University, New York, NY

11:45 AM (537) Lung Physiology during ECMO Resuscitation of DCD Donors Followed by In-Vivo Assessment of Lung Function; J.L. Reoma,¹ A. Rojas,¹ E. Krause,¹ N. Obeid,¹ N. LaFayette,¹ K. Cooke,¹ J. Punch,¹ R.H. Bartlett,¹ ¹Surgery, University of Michigan ECMO Lab, Ann Arbor, MI

10:30 AM - NOON

CONCURRENT SESSION 45: Outcomes and Obstacles to Survival in Pediatric Heart Transplant (Room 311)

Chairs: Timothy M. Hoffman, MD and Francesco Parisi, MD

10:30 AM (538) Pediatric Heart Transplantation: 14 Years of Improving Results Illustrated by Patient Specific Predictions; D.C. Naftel,¹ J.K. Kirklín,¹ D.T. Hsu,² E.D. Blume,³ S.A. Webber,⁴ W.R. Morrow,⁵ C.E. Canter,⁶ ¹University of Alabama at Birmingham, Birmingham, AL; ²Columbia University, New York, NY; ³Boston Childrens Hospital, Boston, MA; ⁴Childrens Hospital of Pittsburgh, Pittsburgh, PA; ⁵Arkansas Childrens Hospital, Little Rock, AR; ⁶St. Louis Childrens Hospital, St. Louis, MO

10:45 AM (539) Outcomes of Pediatric Patients with Hypertrophic Cardiomyopathy Listed for Transplant; R. Gajarski,¹ D. Naftel,⁴ E. Pahl,³ J. Alejos,² B. Pearce,⁶ J. Kirklín,⁴ M. Zamberlan,¹ A. Dipchand,⁵ ¹Pediatrics (Cardiology), C.S. Mott Children's Hospital, University of Michigan, Ann Arbor, MI; ²Pediatrics (Cardiology), Mattel Children's Hospital, UCLA Medical Center, Los Angeles, CA; ³Pediatrics (Cardiology), Children's Memorial Hospital, Northwestern University, Chicago, IL; ⁴Cardiothoracic Surgery, University of Alabama at Birmingham, Birmingham, AL; ⁵Pediatrics (Cardiology), Hospital for Sick Children, Toronto, ON, Canada; ⁶Pediatrics (Cardiology), University of Alabama at Birmingham, Birmingham, AL

11:00 AM (540) The Effect of Prolonged Donor Ischemic Time on Long-Term Outcome in Pediatric Heart Transplant Recipients; M.A. Kuhn,¹ D.D. Deming,¹ R.E. Chinnock,¹ S.L. Robie,¹ L.L. Bailey,¹ ¹Loma Linda University Children's Hospital and Medical Center, Loma Linda, CA

11:15 AM (541) Association of Left Ventricular Dilation at Listing for Heart Transplant with Post-Listing and Early Post-Transplant Survival in Pediatric Dilated Cardiomyopathy; T.P. Singh,¹ L.A. Sleeper,² S. Lipshultz,³ A. Cinar,² C. Canter,⁴ S.A. Webber,⁵ D. Bernstein,⁶ E. Pahl,⁷ J. Alvarez,³ J.A. Towbin,⁸ S.A. Colan,¹ ¹Cardiology, Children's Hospital Boston, Boston, MA; ²New England Research Institute, Watertown, MA; ³University of Miami School of Medicine, Miami, FL; ⁴Washington University, St. Louis, MO; ⁵Children's Hospital of Pittsburgh, Pittsburgh, PA; ⁶Stanford University, Palo Alto, CA; ⁷Children's Memorial Hospital, Chicago, IL; ⁸Texas Children's Hospital, Houston, TX

11:30 AM (542) Simultaneous Heart-Kidney Transplantation in Children – Are the Outcomes as Bad as We Think: An Analysis of the United Network for Organ Sharing Database; R.R. Davies,¹ M.J. Russo,² S. Mital,³ A.C. Gelijs,² A.J. Moskowitz,² R.A. Sorabella,¹ R.S. Mosca,¹ J.M. Quagebeur,¹ J.M. Chen,¹ ¹Cardiothoracic Surgery, Children's

Hospital of New York-Presbyterian, New York, NY; ²International Center for Health Outcomes and Innovations Research (InCHOIR), Columbia University, New York, NY; ³Pediatric Cardiology, Hospital for Sick Children, Toronto, ON, Canada

11:45 AM (543) The Impact of High-Risk Criteria on Mortality Following Heart Transplantation in Children: A Multi-Institutional Study; R.R. Davies,¹ J.M. Chen,¹ D.C. Naftel,³ G. Boyle,⁷ S. Zangwill,⁵ R. Gajarski,⁶ B. Robinson,⁸ R. Kirk,⁹ D. Hsu,² E. Blume,⁴ ¹Cardiothoracic Surgery, Children's Hospital of New York-Presbyterian, New York, NY; ²Pediatric Cardiology, Children's Hospital of New York-Presbyterian, New York, NY; ³Cardiothoracic Surgery, University of Alabama, Birmingham, AL; ⁴Children's Hospital Boston, Boston, MA; ⁵Children's Hospital of Wisconsin, Milwaukee, WI; ⁶University of Michigan, Ann Arbor, MI; ⁷Cleveland Clinic Children's Hospital, Cleveland, OH; ⁸University of North Carolina, Chapel Hill, NC; ⁹Newcastle upon Tyne Hospitals, NHS Trust, Newcastle upon Tyne, United Kingdom

10:30 AM - NOON

CONCURRENT SESSION 46: Innate and Autoimmunity in Thoracic Transplantation (Room 310)

Chairs: Joren C. Madsen, MD, DPhil and Daniel R. Goldstein, MD

10:30 AM (544) Dual Signaling of MyD88 and Trif Are Critical for DC Maturation and Priming of Alloimmunity in Response to LPS Activation; H. Shen,¹ B.M. Tesar,¹ D.R. Goldstein,¹ ¹Internal Medicine, Yale University School of Medicine, New Haven, CT

10:45 AM (545) Toll like Receptor 4 Activation in the Alveolar Macrophage Is Critical for Injury Development in a Model of Lung Ischemia Reperfusion; H.E. Merry,¹ P.S. Wolf,¹ A.S. McCourtie,¹ J.C. Keech,¹ M.S. Mulligan,¹ ¹Division of Cardiothoracic Surgery, University of Washington, Seattle, WA

11:00 AM (546) The Contribution of Toll-Like Receptors (TLR) to Brain Death-Induced Donor Lung Inflammation; A.J. Rostron,¹ V.S. Avlonitis,¹ D.M.W. Cork,¹ J.H. Dark,¹ J.A. Kirby,¹ ¹Applied Immunology and Transplant Research Group, Newcastle University, Newcastle upon Tyne, Tyne and Wear, United Kingdom

11:15 AM (547) Sensitization to Cardiac Myosin Induces Rejection of Cardiac Allografts in Miniature Swine; M.J. Weiss,¹ A.J. Meltzer,¹ H. Sahara,¹ B.R. Rosengard,¹ M.E. Cochrane,¹ J.K. Sayre,¹ J.S. Allan,¹ S.L. Houser,¹ D.H. Sachs,¹ G. Benichou,¹ J.C. Madsen,¹ ¹Transplantation Biology Research Center, Massachusetts General Hospital, Boston, MA

11:30 AM (548) Donor Brain Death Prevents Tolerance Induction in Miniature Swine Recipients of MHC-Disparate Lung Allografts; A.J. Meltzer,¹ G.R. Veillette,¹ A. Aoyama,¹ M.E. Cochrane,¹ S.L. Houser,¹ J.C. Wain,¹ J.C. Madsen,¹ D.H. Sachs,¹ J.S. Allan,¹ B.R. Rosengard,¹ ¹Transplantation Biology Research Center, Massachusetts General Hospital, Boston, MA

11:45 AM (549) The Role of TLR2 in Pulmonary Endothelial and Epithelial Cells in Lung Ischemia Reperfusion Injury; P.S. Wolf,¹ H.E. Merry,¹ J. Keech,¹ M.S. Mulligan,¹ ¹Cardiothoracic Surgery, University of Washington, Seattle, WA

NOON – 1:00 PM

Scientific Council Reports (Room 312)

1:30 PM – 4:30 PM

ISHLT Board of Directors Meeting (Marriott Copley Place Hotel, Wellesley Room)

Exhibit Hall Floor Plan

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Exhibitors and Product Descriptions

Abiomed

22 Cherry Hill Drive

Danvers, MA 01923

Website: www.abiomed.com

Booth Number: 402

ABIOMED develops, manufactures and markets cardiac assist and recovery devices. Products include: the BVS®5000, the AB5000™, Impella® Circulatory Support Systems, iPulse™, and the AbioCor®, the world's first fully implantable artificial heart.

ALSIUS Corporation

15770 Laguna Canyon Road

Suite 150

Irvine, CA 92618

Website: www.alsius.com

Booth Number: 123

ALSIUS is the worldwide leader in providing catheter-based intravascular patient temperature management for critically ill patients. The ALSIUS system and catheters deliver precise core patient cooling or warming therapy in an easy-to-use and cost-effective system to achieve and maintain desired patient temperature.

Argon Medical Devices, Inc.

1445 Flat Creek Road

Athens, TX 75751

Website: www.argonmedical.com

Booth Number: 121

Argon Medical Devices, Inc. manufacturer of "Jawz" Endomyocardial Biopsy Forceps along with other vascular access devices including introducers, guide wires and thermal dilution catheters. Argon offers customized solutions for cardiovascular transplant kits.

Complete product offering: Endomyocardial Biopsy Forceps, introducers, dilators, guide wires, arterial needles, transducers, manifolds, invasive blood pressure monitoring, syringes and drapes.

Astellas Pharma US, Inc.

3 Parkway North

Deerfield, Illinois 60015

Website: www.us.astellas.com

Email: Booth Number: 422

Astellas Pharma, Inc. manufactures and markets proprietary pharmaceutical products in specialty therapeutic areas where there is an unmet medical need. Astellas Pharma's global mission to explore the frontiers of human health underscores the company's commitment to the field of immunology, where aggressive research and development initiatives have helped to put Astellas at the forefront of transplantation.

Berlin Heart

Wiesenweg 10

Berlin 12247 Germany

Website: www.berlinheart.com

Booth Number: 207

As the only company worldwide we cover all areas of ventricular assist device application and CHF patients of every size and age with the partly implantable INCOR® and the paracorporeal EXCOR®.

EXCOR® is a paracorporeal pulsatile VAD for uni- or biventricular support in newborns, children, adolescents, and adults.

INCOR® is an implantable axial-flow VAD for left ventricular support in adults. INCOR® is the only 3rd generation axial flow pump with CE-mark approval.

INCOR® is not FDA approved. EXCOR® is approved for clinical investigation in pediatric patients in USA.

CardiacAssist, Inc.

240 Alpha Dr.

Pittsburgh, PA 15238

Website: www.tandemheart.com

Booth Number: 106

CardiacAssist, Inc. develops, manufactures, and markets cardiac assist devices. The TandemHeart System provides extracorporeal circulatory support through a cardiac catheterization procedure in as little as 30 minutes and can provide up to five liters per minute (lpm) of blood flow and can be used either in the cardiac cath lab or the operating room. The TandemHeart is FDA approved and fully reimbursed by Medicare under existing DRG codes.

Circulite, Inc.

401 Hackensack Ave, 9th Floor

Hackensack, NJ 07601

Website: www.circulite.net

Booth Number: 107

CircuLite is developing a miniature blood pump, designed to be placed superficially like a pacemaker, for the long-term treatment of chronic heart failure. The *Synergy*™ Pocket Circulatory Assist device is designed to rest a failing heart by supplementing its natural function. By providing long-term circulatory assist on a minimally invasive platform, CircuLite's *Synergy*™ has the potential to transform the management of chronic heart failure and improve the quality of life for millions of patients and their families. CircuLite is currently enrolling patients in a long-term support CE Mark trial in Europe and will submit for an IDE approval in 2008.

Cylex, Inc.

8980-I Old Annapolis Road

Columbia, MD 21045

Website: www.cylex.net

Booth Number: 223

Cylex® manufactures the only FDA-cleared assay measuring the vitality of patients' immune systems from a single drop of blood. ImmuKnow® enables physicians to better manage and individualize treatments for life-threatening diseases, such as HIV, HCV, cancer and autoimmune disorders, as well as solid organ and bone marrow transplantation.

Daxor Corporation

350 5th Ave, Ste. 7120

New York, NY 10118

Website: www.daxor.com

Booth Number: 102

Daxor Corporation is the manufacturer of the BVA-100® Blood Volume Analyzer, the first semi-automated instrument patented for direct measurement of blood volume, red cell volume and plasma volume. The system utilizes the Volumex® injection-collection kit for a multi-sample blood volume. Measurement of blood volume can be used in pre and post-surgical conditions as well as numerous medical conditions such as hypertension, congestive heart failure, blood transfusion therapy, anemia, orthostatic hypotension and syncope.

Elsevier, Inc.

1600 JFK Blvd

Suite 1800

Philadelphia, PA 19103

Website: www.elsevierhealth.com

Booth Number: 103

Elsevier is proud to publish the **Journal of Heart and Lung Transplantation**, the official journal of the International Society for Heart and Lung Transplantation. Please stop by our booth to view the latest issue of the journal and browse our other books and journals in the field of heart and lung transplantation.

Essential Pharmaceuticals

770 Newtown Yardley Road

Ste 212

Newtown, PA 18940

Website: www.essentialpharma.com

Booth Number: 117

Essential Pharmaceuticals, LLC. is a specialty pharmaceutical company devoted solely to the development and sale of branded pharmaceutical products in the transplant field including Custodiol® HTK organ preservation solution. Custodiol® HTK. offers superior convenience due to its easy handling characteristics, water like viscosity and no need for additives or filters which makes it a preferred solution for many transplant centers. Please visit us at booth # 117 and at www.essentialpharma.com or www.custodiol.com

February Point

Cave Village at West Baystreet

Great Exuma

Nassau, Bahamas N-8727

Website: www.februarypoint.com

Booth Number: 101

February Point offers limited opportunities to invest in a TAX-FREE paradise on the island of Exuma, Bahamas. Physicians from around the world have chosen February Point to set up family trusts, offshore corporations, and earn a steady income stream from revenue generating properties.

Gilead Sciences, Inc.

333 Lakeside Dr
Foster City, CA 94404
Website: www.gilead.com
Booth Number: 326

Gilead Sciences is a biopharmaceutical company that discovers, develops and commercializes innovative therapeutics in areas of unmet medical need. The company's mission is to advance the care of patients suffering from life-threatening diseases worldwide. Headquartered in Foster City, California, Gilead has operations in North America, Europe and Australia. Visit Gilead on the World Wide Web at www.gilead.com.

HeartWare Inc.

205 Newbury St.
Suite 101
Framingham, MA 01701
Website: www.heartware.com
Booth Number: 227

The HeartWare system is a miniature, full-output, heart pump designed to be implanted in the pericardial space. At the core of the HeartWare platform is the proprietary “wide-blade” impeller. The elimination of internal mechanical bearings is expected to lead to long term device reliability and potentially reduce the risk of damage to blood cells. HeartWare’s system is currently the subject of an international clinical trial involving five investigational centers. This device is an investigational device limited by federal (United States) law to investigational use.

Innovision, Inc.

1 Piedmont Center, Ste 400
3565 Piedmont Road, NE
Atlanta, GA 30305
Website: www.innovision.dk
Booth Number: 105

Innocor[®]. The device for applications in cardiology and cardiac transplant assessment using inert gas rebreathing; providing the technology to perform non-invasive measurement of cardiac output at rest and during exercise. The breath-by-breath (ergospirometry) option provides the possibility to do a combined exercise test with the full set of metabolic/hemodynamic data

ISHLT Thoracic Registry

700 North 4th St
Richmond, VA 23219
Website: www.help@ishlt.org
Booth Number: 124

The International Registry for Heart and Lung Transplantation provides ongoing, current information on the worldwide thoracic organ transplantation experience. The data, utilized for scientific study, contributes to the body of knowledge regarding both heart and lung transplantation efforts throughout the world. Our goal is to identify overall best practices for improving cardiothoracic patient care.

This year the exhibit will make your center-specific information available for your review. In addition, members can view data screens from the ISHLT Registry and receive guidance on enrollment, training on submission of data and instructions for submitting special data requests.

Jarvik Heart, Inc.333 West 52nd St

New York, NY 10019

Website: www.jarvikheart.com

Booth Number: 205

Jarvik Heart, Inc. is a privately held, New York based company that develops and manufactures miniaturized heart assist devices for the treatment of severe heart failure. The Jarvik 2000 is a battery-powered axial-flow left ventricular assist device (LVAD). It is the smallest implantable blood pump available for the long-term treatment of Heart Failure.

Levitronix

45 First Ave

Waltham, MA 02451

Website: www.levitronix.com

Booth Number: 119

Levitronix designed, developed, and produces the CentriMag and PediVAS Ventricular Assist Systems. The CentriMag is designed to provide temporary mechanical circulatory support. In the United States, the CentriMag is undergoing clinical trials to treat patients in cardiogenic shock, as a bridge to decision for up to 14 days, and also to treat patients who have had a commercial LVAS implanted and require right ventricular support. The PediVAS is optimized to provide circulatory support for neonatal and pediatric patients. Both systems are CE Mark approved for use for up to 30 days. The PediVAS is only available outside the United States.

MicroMed Cardiovascular, Inc.

8965 Interchange Dr.

Houston, TX 77054

Website: www.micromedtech.com

Booth Number: 115

The DeBakey VAD[®] is a miniaturized ventricular assist device (VAD) jointly developed by famed heart surgeon Dr. Michael E. DeBakey, Dr. George Noon, and the National Aeronautics and Space Administration (NASA). The DeBakey VAD[®] is an implantable axial flow device designed to provide long term support and improve quality of life for patients who suffer from severe heart failure. It's the only device that provides an accurate, real-time flow measurement which enhances patient management. It is CE-mark approved in Europe, undergoing an IDE BTT clinical study in the U.S. and is the only FDA approved pediatric ventricular assist device.

Microsurgery Instruments, Inc.

7211 Regency Square Blvd Ste. # 223

Houston TX, 77036

Website: www.microsurgeryusa.com

Booth Number: 128

Microsurgery Instruments, Inc. is one of the leading suppliers of microsurgical equipment in the United States, and is well known in a number of surgical fields. Apart from our high-quality loupes, we supply super-cut scissors, titanium needle-holders, titanium forceps, vascular clamps, light sources, sutures, microscopes and other instruments.

Novartis Pharma AG

Forum 1
Novartis Campus
CH-4056 Basel Switzerland
Website: www.novartis.com
Booth Number: 412

Novartis has been a leader in the transplant area for more than 20 years, having pioneered early breakthrough treatments for organ protection with Neoral® and Sandimmune. Novartis markets the broadest immunosuppressant portfolio in the industry with three products (Neoral, myfortic®, and Simulect®) available throughout the world and the fourth product, Certican®, available in more than 60 countries outside of the US. Certican currently has an approvable status with the US Food and Drug Administration (FDA). Novartis continues to invest in the in-house research and development of new compounds. The company's goal is to build an innovative portfolio of therapeutic products for the prevention of organ rejection to provide a number of treatment options to the transplant community.

Quality Assured Services

70 S. Keller Road
Orlando, FL 32810
Website: www.qualityassuredservices.com
Booth Number: 201

QAS provides easy-to-use medical diagnostic devices and consumables for use in the physician's office or patient's home (in contrast to a remote laboratory site). This is not a simple shift in location, but rather a positive change in the end user's experience.

The caring and dedicated team at QAS offers medical testing products, telemedicine support, medical insurance adjudication, specialized patient management software, disease management programs, educational websites, training, and 24-hour customer support

Roche

340 Kingsland St
Nutley, NJ 07110
Website: www.rocheusa.com or www.roche.us
Booth Number: 302

Roche is a leading, global innovator of pharmaceuticals and diagnostics dedicated to enhancing people's health and quality of life. Our people are engaged in the discovery, development, manufacturing and marketing of prescription medicines in a wide variety of therapeutic areas, including cancer, HIV/AIDS, hepatitis C, transplantation, influenza and osteoporosis. We invite you to visit our booth #302 to learn more about CellCept and Valcyte. www.rocheusa.com or www.roche.us.

Scanlan International, Inc.

One Scanlan Plaza
Saint Paul, MN 55107
Website: www.scanlangroup.com
Booth Number: 227

Highest quality surgical products designed and manufactured by the Scanlan family since 1921. Over 3,000 designs in stainless steel and titanium instrumentation featuring needle holders, forceps, scissors, clamps, and specialty instruments. New instruments include the SCANLAN® LEGACY titanium forceps and VATS/MICS minimally invasive instruments. Offering a wide variety of custom instrument modification to meet your individual needs. Single-use products include: VASCU-STATT® bulldog

clamps, SCANLAN® Aorta/Vein Punch, *A/C Locator*® graft markers, SURG-I-PAW® jaw covers and SOFT-GRIP™ fabric clamp covers. Exclusive worldwide distributor for Surgical Acuity magnifying loupes featuring titanium frames, large field size and greatest field depth for superior visualization.

SynCardia Systems, Inc.

1992 E. Silverlake

Tucson, AZ 85713

Website: www.syncardia.com

Booth Number: 111

The CardioWest™ temporary Total Artificial Heart (TAH-t) is the only FDA, Health Canada and CE approved device that provides circulatory restoration in morbidly ill patients with irreversible bi-ventricular failure, providing a life-saving bridge until a donor human heart becomes available. In 2006, the EXCOR® TAH-t mobile was granted a CE mark, enabling European hospitals to discharge stable patients on the TAH-t to return home while they are awaiting a transplant. At ISHLT, we will provide information about our upcoming clinical trial of the Companion driver, designed for use in the operating room, hospital room and at home.

Synthes CMF

1301 Goshen Parkway

West Chester, Pennsylvania 19380

Website: www.synthes.com

Booth Number: 203

Synthes CMF develops, produces and markets instruments and implants for the surgical reconstruction of the human skeleton and soft tissues. Our product offering includes systems for primary or secondary closure and repair of the sternum following sternotomy or fracture to stabilize the sternum and promote healing.

Terumo Heart, Inc.

6180 Jackson Road

Ann Arbor, MI 48103

Website: www.terumoheart.com

Booth Number: 128

Terumo Heart, Inc is dedicated to the innovation, introduction and advancement of products to improve the quality of healthcare of heart failure patients. Our principal focus is the development of the DuraHeart™ Left Ventricular Assist System (LVAS). The system is designed to provide long-term circulatory support and address the shortage of donor hearts for cardiac transplantation. Combining patented magnetic-levitation and centrifugal pump technologies, the DuraHeart LVAS is expected to decrease complications and improve the lives of patients with severe heart failure. The DuraHeart LVAS is not currently for sale in the United States pending clinical investigation.

Thoratec Corporation

6035 Stoneride Dr.

Pleasanton, CA 94588

Website: www.thoratec.com

Booth Number: 219

Thoratec® Corporation innovates and delivers technologies that enable a full range of therapies to save, support and restore failing hearts, allowing patients to reclaim their lives. With over 11,000 patient implants

and three decades of experience, Thoratec offers the broadest portfolio of ventricular assist devices. Thoratec's product line includes the CentriMag® Acute Circulatory Support Device, HeartMate® LVAS, Thoratec PVAD™ and IVAD™, and the HeartMate II®, an investigational device in clinical trial.

TransMedics

200 Minuteman, Suite 302

Andover, MA 01810

Website: www.transmedics.com

Booth Number: 308

TransMedics is a medical technology company whose mission is to extend and expand the life saving benefits of organ transplantation. The Organ Care System™ (OCS) resuscitates and maintains human organs in a functioning state ex-vivo using warm, oxygenated, nutrient-enriched donor blood perfusion. This allows for continuous functional and metabolic assessment and results in a significant reduction of ischemia. The OCS is designed to deliver improved patient outcomes, increased utilization of donor organs, and more cost-effective transplants. OCS HEART is CE marked and available for sale in Europe. OCS LUNG is in advanced stages of development.

United Network for Organ Sharing (UNOS)

700 N. 4th St.

Richmond, VA 33219

Website: www.unos.org

Booth Number: 125

UNOS is a 501 (c) 3 not-for-profit, scientific, educational and charitable Virginia membership corporation that manages the national Organ Procurement and Transplantation network. Responsibilities include: facilitating organ donation through research, education and advocacy; managing the U.S. organ transplant waiting list matching donors to recipients; maintaining a database that monitors U.S. transplant recipients; and, through private, charitable funding, working to increase organ availability and continuously improve the outcomes and quality of life of transplant candidates and recipients.

Ventricor Inc

101 Lincoln Centre

Suite 420

Foster City, CA 94404

Website: www.ventracor.com

Booth Number: 120

Ventricor is a global medical device company which has developed a blood pump, the VentrAssist left ventricular assist device (LVAD) for patients in heart failure. Ventracor plans to bring to VentrAssist to the global market

ViroPharma, Incorporated

397 Eagleview Blvd

Exton, PA 19841

Website: www.viropharma.com

Booth Number: 127

ViroPharma Incorporated is a pharmaceutical company focused on the development and commercialization of medicines to address serious diseases of unmet medical needs including infectious diseases, transplant medicine, and gastroenterology.

Vital Engineering

330 Scaife Hall

200 Lothrop St

Pittsburgh, PA 15213

Website: www.vitalengineering.com

Booth Number: 110

Vital Engineering provides training and educational programs for physicians and other health care providers as well as on-site training and technical support prior to, during and following device implantation. Vital Engineering has the knowledge and resources to improve patient care from surgery through discharge planning and outpatient care. Our clinical experience equips the artificial organ industry with the ultimate product quality improvement from emerging to experienced companies. Vital Engineering offers many partnership benefits to patients, clinicians, hospitals, and industry.

Vitrolife

113 Buttercup Road

Lake Ozark, MO 65049

Website: www.vitrolife.com

Booth Number: 109

Vitrolife Transplantation Systems manufactures and markets solutions and equipment for transplantation and thoracic surgery, designed to preserve organs and tissues prior to transplantation. These two solutions are Perfadex for flushing of the lungs and Steen Solution for ex vivo evaluation (approved in US for research purposes only).

Vitrolife aims to:

- minimize ischemic reperfusion injuries by improving the solutions used for extra corporeal preservation of organs and tissues.
- extend the safe extra corporeal preservation time for organs and tissues prior to transplantation.
- increase the organ availability and transplantation success rates by introduction of new transplantation concepts and techniques

Wiley-Blackwell

350 Main St

Malden, MA 02148

Website: www.wiley.com/wiley-blackwell

Booth Number: 127

Wiley publishes an enormous range of top quality consumer, professional, educational and research material, from the well-known Frommer's and 'For Dummies' guides, to college textbooks, highly ranked peer-reviewed primary research and evidence based medicine.

Wiley-Blackwell, the scientific, technical, medical and scholarly publishing business of John Wiley & Sons, publishes on behalf of more societies and membership associations than anybody else and offers libraries and individuals 1250 online journals, thousands of books in print and online, reviews, reference works, databases, and many other innovative resources for teaching and learning, including across the social sciences and humanities.

XDx

3260 Bayshore Blvd

Brisbane, CA 94005

Website: www.xdx.com

Booth Number: 320

Founded in 2000, XDx is a molecular diagnostics company based in Brisbane, CA. Setting the stage for a new era in personalized medicine, XDx is one of the first companies to develop and commercialize practical applications built on insights from the Human Genome Project. The company has developed a proprietary new method, AlloMap® molecular expression testing, for noninvasively monitoring the immune system by measuring gene expression in a patient's peripheral blood. The technology offers the potential to decrease healthcare costs and significantly improve the quality of life for patients with a variety of life-threatening or life-altering immune-mediated diseases.

(inside back cover)

FUTURE ISHLT MEETINGS

29th ISHLT ANNUAL MEETING AND SCIENTIFIC SESSIONS

April 22-25, 2009

Paris, France

Meridien Etoile

Concorde LaFayette and Palais des Congress

30th ISHLT ANNUAL MEETING AND SCIENTIFIC SESSIONS

April 21-24, 2010

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