HEART VALVE SOCIETY
Inaugural Meeting
7 – 9 May 2015
Grimaldi Forum
Monte Carlo, Monaco

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<td>7.00</td>
<td>Continental Breakfast – Fairmont</td>
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| 8.20 – 8.30 | Welcome  
  Michael A. Borger, MD  
  President  
  Maurice E. Sarano, MD  
  President-Elect  
  Gilles D. Dreyfus, MD  
  Program Chair         |
| 8.30 – 9.30 | Opening Plenary Session: Next Decade in Valve Disease  
  Moderators: Michael A. Borger, MD  
  Gilles D. Dreyfus, MD  
  Maurice E. Sarano, MD  
  8.30 – 8.45 Historical Perspectives of Heart Valve Replacement Surgery  
  Alain Carpentier, MD  
  8.45 – 9.00 Changing Epidemiology of Heart Valve Disease  
  Maurice Sarano, MD  
  9.00 – 9.15 Advances in Heart Valve Imaging  
  Razvan Ionaesc, MD  
  9.15 – 9.30 The Rapid Evolution of Transcatheter Therapies  
  Martin Leon, MD       |
| 9.30 – 10.00 | Presidential Address  
  Michael Borger, MD       |
| 10.00 – 10.30 | Coffee Break, Poster Viewing  |
| 10.30 – 12.00 | Concurrent Session I: Aortic Stenosis  
  Moderators: Vinod Thourani, MD  
  Raphael Rosenhek, MD  
  Raphael Rosenheck, MD  
  10.42 – 10.54 Bicuspid Aortic Valve Disease: Should These Patients be Managed Differently?  
  Thor Sundt, MD  
  10.54 – 11.06 Management of Moderate Aortic Stenosis at the Time of Concomitant Cardiac Surgical Procedures  
  Blase Carabello, MD  
  11.06 – 11.18 Minimalist Transcatheter Aortic Valve Implantation: Is This The New Gold |
Standard for the Management of Aortic Stenosis
Vinod Thourani, MD

11.18 – 11.30 Update on Rapid Deployment Aortic Valves: Will This Technology Replace the Available Stented Valves in all Patients?
Mattia Glauber, MD

11.30 – 12.00 Discussion

Concurrent Session II: Minimally Invasive Valve Surgery Keynote & Award Abstracts
Moderator: Friedrich Mohr, MD

10:30 – 10:45 Minimally Invasive Valve Surgery Keynote
Friedrich Mohr, MD

Arshad QUADRI. St. Francis Hospital, West Hartford, CT, USA.

10.55 – 11.05 A2. Feasibility And Clinical Outcome After Minimally Invasive David's Procedure
Hardy Baumbach1, Ragi Nagib1, Samir Ahad1, Adrian Ursulescu1, Rashmi Yadav2, Kristina Wachter1, Ulrich F W Franke1.
1Robert Bosch Hospital, Stuttgart, Germany, 2Royal Brompton Hospital, London, United Kingdom.

11.05 – 11.15 A3. Minimally Invasive Video-assisted Mitral Valve Surgery With A Patient's Tailored Approach: Results Of 624 Consecutive Procedures
Davide Ricci, Giovanni Marchetto, Massimo Boffini, Cristina Barbero, Suad ElQarra, Francesca Ivaldi, Mauro Rinaldi.
AOU Città della Salute e della Scienza di Torino – University of Turin, Turin, Italy.

11.15 – 11.25 A4. Minimal Invasive Aortic Valve Replacement: Is The Sutureless Technology A Real Advantage?
Steffen Pfeiffer, Giuseppe Santarpino, Joachim Sirch, Ferdinand Vogt, Theodor Fischlein.
Klinikum Nürnberg, Paracelsus Medical University, Nuremberg, Germany.

11.25 – 11.35 A5. Results and Quality of Life after Minimally Invasive Ross Procedure
Marc Albert1, Hardy Baumbach1, Ragi Nagib1, Adrian Ursulescu1, Rashmi Yadav, MD2, Nora Goebel1, Ulrich F. W. Franke1.
1Robert-Bosch Hospital, Stuttgart, Germany, 2Royal Brompton Hospital, London, United Kingdom.

Jaroslaw Stoliński, Grzegorz Grudzień, Dariusz Plicner, Pawel Kruszec, Robert Musial.
John Paul II Hospital Cracow Poland, Cracow, Poland.

11.45 – 11.55 A7. Pathology of Sutureless Bioprosthetic Valves: Clinical and Experimental Findings
Mila Della Barbera, Marialuisa Valente, Cristina Basso, Gaetano Thiene, Sr. University of Padova, Padova, Italy.
**Concurrent Session III: New Insights in Valvular Calcification**
Moderators: Kristyn Masters, MD
              Jordan Miller, MD

13.30 – 13.45 Title  
  Speaker, MD

13.45 – 14.00 Title  
  Speaker, MD

14.00 – 14.15 Title  
  Speaker, MD

14.15 – 14.30 Title  
  Speaker, MD

14.30 – 15.00 Discussion

**Concurrent Session IV: Ischemic MR**
Moderators: Emmanuel Messas, MD

10.30 – 10.45 The Mitral Distortion of Ischemic MR  
  Robert Levine, MD

10.45 – 11.00 The Lost Dynamics of Ischemic MR  
  Yan Topilsky, MD

11.00 – 11.15 Cutting Chordae-A Realistic Approach  
  Emmanuel Messas, MD

11.15 – 11.30 Alternative Approaches to Ischemic MV Repair  
  Hans-Joachim Schaefers, MD

11.30 – 11.45 TITLE TBD  
  Rakesh Suri, MD

11.45 – 12.00 Discussion

**Concurrent Session V: Tissue Engineering**
Moderators: Artur Lichtenberg, MD  
            Carlijn Bouten, MD

10.30 – 10.45 Preclinical Studies on Modification Steps for Optimization of Decellularized Tissue Engineered Heart Valves  
  Payam Akhyari, MD

10.45 – 11.00 A Decade of Clinical Application of Tissue Engineered Heart Valves Based on Decellularization Technology – 2015 Results of Pulmonary and Aortic Valves  
  Serghei Cebotari, MD

11.00 – 11.15 Recellularization of Decellularized Engineered Tissue Valves; In-Vitro and In-Vivo Outcomes  
  Simon Hoerstrup, MD

11.15 – 11.30 In-Situ Heart Valve Tissue Engineering Using Biodegradable Polymer Scaffolds  
  Carlijn Bouten, MD
Concurrent Session VI: Heart Valve Imaging Abstracts
Moderator(s): TBD

10.30 – 10.40 B1. Mitral effective regurgitant orifice area is an independent predictor of pulmonary artery pressure in patients with aortic stenosis
G Benfari1, Andrea Rossi1, S Nistri2, G Cioffi3, G Faggiano4, G Geremia1, C Vassanelli1.
1University of Verona, Verona, Italy, 2CMSR Veneto Medica, Vicenza, Italy, 3Villa Bianca Hospital, Trento, Italy, 4University of Brescia, Brescia, Italy.

Heart center Leipzig, Leipzig, Germany.

10.50 – 11.00 B3. Correlate Of Global Longitudinal, Radial And Area Strain In Severe Aortic Stenosis With Normal Left Ventricular Ejection Fraction: 3-dimensional And 2-dimensional Multilayer STE
Sung-Ji Park1, Eun-Jeong Cho1, Sang-Chol Lee1, Seung Woo Park1, Dong-Ju Choi2.
1Samsung Medical Center, Seoul, Korea, Republic of, 2Seoul National University Bundang Hospital, Seoul, Korea, Republic of.

11.00 – 11.10 B4. Structural Valve Deterioration: An Appeal For New Definition
Thomas Sénage, Yohann Foucher, Caroline Cueff, Thierry Le Tourneau, Jean Christian Roussel.
Thorax institut, Nantes Cedex 1, France.

11.10 – 11.20 B5. Accuracy of multislice CT for diagnosis of prosthetic valve and device dysfunction: Comparative Study With Echocardiography And Surgery
Gudrun Feuchtner1, Fabian Plank1, Donya A-Hassan2, Silvana Müller1, André Plass3, Orest Chevtchik1, Nikolaos Bonaros1.
1Innsbruck Medical University, Innsbruck, Austria, 2British Columbia University Vancouver, Vancouver, DC, Canada, 3Zürich University, Dept. Cardiac Surgery, Zürich, Switzerland.

11.20 – 11.30 B6.

11.30 – 11.40 B7. Diffused Myocardial Fibrosis Identified by T-1 Mapping Cardiac Magnetic Resonance can be Found in Patients with Severe Aortic Stenosis and It is Independent From Focal Myocardial Fibrosis
Rafael Sádaba, FRCS CTh1, Fernando Olaz, MD, PhD1, Virginia Alvarez Asiain, MD1, Mercedes Ciriza, MD1, Luis Jimenez-Alfaro, MD1, Javier De Diego, MD1, Amaia Melero, RN1, Natalla Lopez-Andres, PhD2.
1Complejo Hospitalario de Navarra, Pamplona, Spain, 2NavarraBiomed, Pamplona, Spain.

12:00 – 13.30 Industry Lunch Symposium
13.30 – 15.00 **Concurrent Session I: Great Debates**


**Pro:** Percutaneous Edge-to-Edge is the Definitive Therapy for Functional MR
Saibal Kar, MD

**Con:** Surgery is the Gold Standard for Functional MR
Antonio Calafiore, MD

14.15 – 15.00 Debate II: Is Early Surgery Indicated for Asymptomatic Aortic Stenosis?

**Pro:** Early Surgery is Indicated for Asymptomatic Aortic Stenosis
Maurice Sarano, MD

**Con:** Watchful Waiting is Indicated for Asymptomatic Aortic Stenosis
Luc Pierard, MD

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**Concurrent Session II: Heart Valve Imaging Keynote & Award Abstracts**

**Moderator:** A. Jamil Tajik, MD

13.30 – 13.45 Heart Valve Imaging Keynote
A. Jamil Tajik, MD

13.45 – 13.55 **A8. Impact of Aortic Valve Phenotype on the Relationship between Aortic Valve Calcification and Aortic Stenosis Hemodynamic Severity**

Theodore Hanson1, Marie-Annick Clavel1, David Messika-Zeitoun2, Philippe Pibarot3, Philip Araoz1, Joseph Maalouf1, Romain Capoulade3, Mylene Shen3, Caroline Cueff2, Hector Michelena1, Maurice Enriquez-Sarano1.

1Mayo Clinic, Rochester, MN, USA, 2Bichat Hospital, Paris, France, 3IUCPQ, Quebec, QC, Canada.


Thierry Le Tourneau1, Antoine Jobbe-Duval1, Caroline Cueff1, Antoine Rimbert1, Damien Duval1, Florence Kyndt1, Claire Toquet1, Patrick Bruneval2, Albert Hagege2, Robert Levine3, Simon Lecointe1, Vincent Probst1, Jean-Christian Rousse1, Olivier Baron1, Christophe Baudefot4, Jean Mér0t1, Hervé Le Marec1, Jean Jacques Schott1.

1Institut du Thorax, Nantes, France, 2HEGP, Paris, France, 3MGH, Boston, MA, USA, 4Cardiovascular Surgery Department, Angers, France.

14.05 – 14.15 **A10. Incremental Prognostic Value of Cardiac Magnetic Resonance for the Preoperative Assessment of Patients with Isolated Severe Tricuspid Regurgitation**

Jun-Bean Park1, Hyung-Kwan Kim1, Ji-Hyun Jung1, Yeonhee E. Yoon2, Seung-Pyo Lee1, Eun-Ah Park3, Ho-Young Hwang4, Whal Lee3, Kyung-Hwan Kim4, Yong-Jin Kim1, Goo-Yeong Cho2, Ki-Bong Kim4, Dae-Won Sohn1, Hyuk Ahn4, Byung-Hee Oh1.

1Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea, Republic of, 2Department of Internal Medicine, Seoul National University Bundang Hospital, Kyeonggi-do, Korea, Republic of, 3Department of Radiology, Seoul National University Hospital, Seoul, Korea, Republic of, 4Department of Cardiovascular Thoracic Surgery, Seoul National University Hospital, Seoul, Korea, Republic of.
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| 14.15 – 14.25   | **A11. Flow dependency of Aortic Valve Resistance in 3D Printed Patient Specific Models of Severe Aortic Valve Stenosis**  
                  | *Houston Methodist Hospital, Houston, TX, USA.*                                                                                               |
                  | Serguei Melnitchouk, Jonathan Teoh, Thoralf Sundt, Judy Hung.  
                  | *Massachusetts General Hospital, Boston, MA, USA.*                                                                                             |
| 14.35 – 14.45   | **A13. Aortic Valve Replacement with Rapid Deployment Bioprosthesis in Patients with Small Aortic Annulus: Preliminary Hemodynamic Results**  
                  | Alexis THERON, Vlad GARIBOLDI, Dominique GRISOLI, Pierre MORERA, Nicolas JAUSSAUD, Virginie CHALVIGNAC, Severine LEROUX, Cecile AMANATIOUT, Alberto RIBERI, Catherine GUIDON, Frederic COLLART.  
                  | *La Timone Hospital, Marseille, France.*                                                                                                       |
                  | Dimitrios Maragiannis1, Matthew S. Jackson1, Kyle Autry1, Jose H. Flores-Arrendondo2, Robert C. Schutt1, Paulino A. Alvarez1, William Zoghbi1, Dipan J. Shah1, Stephen H. Little1.  
                  | 1Houston Methodist Hospital, Houston, TX, USA, 2Baylor College, Houston, TX, USA.                                                             |

**Concurrent Session III: Valve Disease Registries**

Moderator: Johanna Takkenberg, MD

10.30 – 10.45 The Valve-in-Valve International Data Registry  
Danny Dvir, MD

10.45 – 11.00 AVIATOR  
Jolanda Kluin, MD

11.00 – 11.15 GenTac  
Joseph Bavaria, MD

11.15 – 11.30 The Role of Registries in Advancing Knowledge on Outcomes  
Johanna Takkenberg, MD

11.30 – 12.00 Discussion

**Concurrent Session IV: Mitral Valve Prolapse**

Moderators: Robert Levine, MD  
Albert Hagege, MD  
Thierry Le Tourneau, MD

13.30 – 13.45 Normal and Pathologic MV Development  
Russel Norris, MD

13.45 – 14.00 Genome Wide Association Study in MVP  
Christian Dina, MD

14.00 – 14.15 Genes in Non-Syndromic MVP  
Sue Slaugenhaupt, MD
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<tr>
<td>14.15 – 14.30</td>
<td>Mitral Valve Phenotype</td>
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<td>Thierry Le Tourneau, MD</td>
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<td>14.30 – 14.45</td>
<td>Leducq Mitral Network Overview and Future Perspectives</td>
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<td>Robert Levine, MD</td>
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<td>14.45 – 15.00</td>
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**Concurrent Session V: Valve Biology**

**Moderators:** Elena Aikawa, MD  
Jonathan Butcher, MD

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<tr>
<td>13.30 – 13.45</td>
<td>Endothelial Regulation of Aortic Valve Biology and Disease</td>
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<td>Jonathan Butcher, MD</td>
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<tr>
<td>13.45 – 14.00</td>
<td>Signaling Pathways in Valve Homeostasis and Disease</td>
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<td>Joy Lincoln, MD</td>
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<td>14.00 – 14.15</td>
<td>Glycobiology in Health and Disease</td>
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<td>Jane Grande-Allen, MD</td>
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<td>14.15 – 14.30</td>
<td>Extracellular Vesicles and their Role in Valve Pathobiology</td>
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<td>Elena Aikawa, MD</td>
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<td>14.30 – 15.00</td>
<td>Discussion</td>
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**Concurrent Session VI: Percutaneous Valve Abstracts**

**Moderators:** Niel Moat, MD  
Corrado Tamburino, MD

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<td>Miguel A. Maluf¹, Miko Obradovic², Rainier Bregulla², Helmut Grathwohl², Luciedes P. Mercuri¹, Jivaldo R. Matos³.</td>
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<td>¹Universidade Federal de São Paulo, São Paulo, Brazil, ²Bentley InnoMed, Hechingen, Germany, ³Universidade de São Paulo, São Paulo, Brazil.</td>
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<td>Aditi Sinha, Arash Kheradvar.</td>
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<td>University of California, Irvine, Irvine, CA, USA.</td>
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<td>13.50 –14.00</td>
<td>B10. The Impact Of Flow And Gradient On Outcome After Transcatheter Aortic Valve Implantation For Severe Aortic Stenosis</td>
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<td>Medical University of Innsbruck, Innsbruck, Austria.</td>
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<td>14.00 – 14.10</td>
<td>B11. An In Vitro Investigation of Hemodynamic and Pullout Forces in a Valve-in-Valve Implantation</td>
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<td>Prem A. Midha¹, Sivakkumar Arjunon, PhD1, Domingo Uceda1, Vrishank Raghav, PhD1, Jose F. Condado, MD, MS2, Stamatios Lerakis, MD2, Vinod H. Thourani, MD2, Vasilis Babaliaros, MD2, Ajit Yoganathan, PhD1.</td>
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<td>¹Georgia Institute of Technology, ATLANTA, GA, USA, ²Emory University Hospitals, ATLANTA, GA, USA.</td>
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Mauro Romano1, Andrea Da Prati1, Francesco Tizzano1, Daniel Le Houërou1, Thierry Lefèvre2, Bernard Chevalier2, Thomas Hovasse2, Gouge1, Brahim Benomar1.
1Institut Hospitalier Jacques Cartier, Massy, France, 2Institut Hospitalier Jacques Cartier-Institut Cardiovasculaire Paris Sud, Massy, France.

B13. Use of the Edwards Sapien 3 Valve and Medtronic Melody Valve for Surgical Mitral Valve Replacement in Infants and Children
Paul J. Chai, Isaac George, Tamim M. Nazif, David Kalfa, Susheel K. Kodali, Alejandro Torres, Julie A. Vincent, Martin B. Leon, Emile A. Bacha.
Columbia University Medical Center, New York, NY, USA.

B14. Sutureless-adjustable Surgical Mitral Annuloplasty: 2years Follow-up
Paolo Denti1, Giovanni La Canna1, Nicola Buzzatti1, Giovanna Di Giannuario1, Maurizio Taramasso2, Luca Vicentini1, Francesco Maisano2, Ottavio Alfieri1.
1San Raffaele Hospital, Milan, Milan, Italy, 2UniversitätsSpital Zürich, Zürich, Zürich, Switzerland.

B15. Assessment of the Hydrodynamic Function of TAVI prostheses Implanted In Bioprostheses
Ulrich Steinseifer1, Maximilian Kuetting1, Christoph Schmitz1, Marc Utzenrath1, Sandrine Egron1, Alexander Sedaghat2, Buntaro Fujita3, Stephan Ensminger3.
1RWTH Aachen University, Aachen, Germany, 2University of Bonn, Bonn, Germany, 3Heart and Diabetes Center Northrhine Westfalia, Bad Oeynhausen, Germany.

Coffee Break, Poster Viewing

Concurrent Session I: TAVR
Moderators: Thomas Walther, MD
Nicolo Piazza, MD

15.30 – 15.45 Patient Versus Device Selection – A Complex Interplay
Jorg Kempfert, MD

15.45 – 16.00 TAVR For “Lower” Risk Patients – Is It Justified?
Nicolo Piazza, MD

16.00 – 16.15 Failure of Transcatheter Aortic Valves: How, When and What To Do?
Darren Mylotte, MD

16.15 – 16.30 10 Suggestions on How to Improve Your TAVR Program
Thomas Walther, MD

16.30 – 17.00 Discussion

Concurrent Session II: Heart Valve Basic Science Research Keynote & Award Abstracts
Moderator: Roger Markwald, MD
15.30 – 15.45 Heart Valve Basic Science Research Keynote
Roger Markwald, MD

15.45 – 15.55 A15. Mutations in ARHGAP24 encoding Filgap as a cause of Mitral Valve Prolapse
Antoine Rimbert1, Damien Duval1, Florence Kyndt1, Simon Lecointe1, Antoine Jobbe-Duval1, Daniel Trujillano2, Nathan Tucker3, Christophe Baufreton4, Russell A. Norris5, Vincent Probst1, Hervé Le Marec1, Claire Toquet1, Patrick Bruneval6, Xavier Estivill7, Susan Slagheuapt8, Robert A Levine9, Roger R Markwald5, Xavier Jeunemaitre6, David Milan3, Thierry Le Tourneau1, Jean Mérot1, Jean-Jacques Schott1.
1INSERM U1087 Institut du thorax, Nantes, France, 2Genetic Causes of Disease Group, Centre for Genomic Regulation, Barcelona, Spain, 3Cardiovascular Research Center, Massachusetts General Hospital, Boston, MA, USA, 4Cardiovascular surgery department, University Hospital, Angert, France, 5Department of Regenerative Medicine and Cell Biology, Medical University of South Carolina, Charleston, SC, USA, 6Department of Pathology Hôpital Européen Georges Pompidou, Paris, France, 7Genetic Causes of Disease Group, Centre for Genomic Regulation (CRG), Barcelona, Spain, 8Center for Human Genetic Research, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA, 9Cardiac Ultrasound Laboratory, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA.

15.55 – 16.05 A16. Identifying Genetic Causes of Bicuspid Aortic Valve - A Long Way To Go
Catherine Francis1, Matina Prapa2, Nada Abdulkareem3, Roddy Walsh1, Shibu John1, Rachel Buchan1, Paul J. Barton1, Marjan Jahangiri3, Michael A. Gatzoulis2, John Pepper1, Stuart A. Cook1.
1Cardiovascular BRU, Royal Brompton Hospital, London, United Kingdom, 2Royal Brompton Hospital, London, United Kingdom.

16.05 – 16.15 A17. Genetic Association Highlights Biological Pathways Underlying Mitral Valve Prolapse
Christian Dina1, Nabila Bouatila-Naji2, Francesca N. DELLING3, Ronen DURST4, Leticia FERNANDEZ-FRIERA5, Jorge SOLIS5, Thierry LE TOURNEAU1, Vincent PROBST1, Yohan ROSSE6, Philippe PIBAROT7, Mark LATHROP8, Serge HERCBERG9, Ronan ROUSSEL10, Simon LECOINTE1, Florence KYNDT1, Floriane SIMONET1, Emelia J. BENJAMIN11, Richard REDON1, Hervé LE MAREC1, Philippe Foguel12, Ramachandran S. VASAN13, Russell A. NORRIS14, David J. MILAN15, Susan A. SLAGENHAUPT16, Robert A. LEVINE17, Jean-Jacques SCHOTT1, Albert A. HAGEGE18, Xavier JEUNEMAITRE19.
1Inserm UMR1087, CNRS UMR 6291, CHU Nantes, Institut du Thorax, Nantes, France, 2Inserm UMR970 Paris Cardiovascular Research Center, Paris, France, 3Department of Medicine (Cardiovascular Division), Beth Israel Deaconess Medical Center, Harvard Medical School and Framingham Heart Study, Boston, MA, USA, 4. Cardiology Department, Hadassah Hebrew University Medical Center, Jerusalem, Israel, 5Hospital Universitario Montepríncipe, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain, 6Institut universitaire de cardiologie et de pneumologie de Québec, Laval University, Québec, QC, Canada, 7Institut universitaire de cardiologie et de pneumologie de Québec, Laval University, Quebec, QC, Canada, 8Génome Québec, Montréal, QC, Canada, 9Paris 13 University, Sorbonne Paris Cité, Nutritional Epidemiology Research Team, Epidemiology and biostatistics
A18. Attenuated Notch-Tnf Signaling Leads to Semilunar Valve Remodeling Defect and Stenosis
Yidong Wang1, Bingruo Wu1, Emily Farrar2, Christina M. Alfieri3, Kai Mao1, Katherine E. Yutzey3, Jonathan T. Butcher2, Bin Zhou1.
1Albert Einstein College of Medicine, Bronx, NY, USA, 2Cornell University, Ithaca, NY, USA, 3Cincinnati Children's Medical Center, Cincinnati, OH, USA.

A19. Reduction of Krox20 Expression leads to Aortic Valve Dysfunction and Thickening of the Valve Leaflet
Alexis THERON1, Gaëlle ODELIN2, Emilie FAURE2, Jean-François AVIERINOS1, Stéphane ZAFFRAN2.
1Inserm U910/La Timone Hospital, Marseille, France, 2Inserm U910, Faculté de Médecine, Marseille, France.

A20. LVAD-support Induces a M2-type Reparative Response and Progressive Valve Interstitial Cell Activation in the Aortic Valve
Jan Willem van Rijswijk1, Aryan Vink2, Jerson R. Martina1, Nicolaas de Jonge3, Roel A. de Weger2, Faiz Z. Ramjankhan1, Jolanda Kluin1.
1Dept of Cardiothoracic Surgery, University Medical Center Utrecht, Utrecht, Netherlands, 2Dept of Pathology, University Medical Center Utrecht, Utrecht, Netherlands, 3Dept of Cardiology, University Medical Center Utrecht, Utrecht, Netherlands.

A21. Design of 3-Dimensional Spatially Organized PEG-Based Hydrogels for an Aortic Valve Co-Culture Model
Daniel S. Puperi1, Liezl R. Balaoing1, Ronan W. O'Connell2, Jennifer L. West3, Kathryn J. Grande-Allen1.
1Rice University, Houston, TX, USA, 2University of Glasgow, Glasgow, United Kingdom, 3Duke University, Durham, NC, USA.

Concurrent Session III: 3-D Echo Imaging

Moderators: Joerg Ender, MD
Alain Berrebi, MD

15.30 – 15.45 Role of 3D in Cath Lab for Valve Interventions
Thomas Buck, MD

15.45 – 16.00 Role of 3D in Valve Surgery
Alain Berrebi, MD

16.00 – 16.15 Role of 3D and LV/RV Ventricular Function: The Anesthesiologist Point of View
Jörg Ender, MD

16.15 – 16.30 3D Echo Imaging Technology: Past, Present, and Future
Jean Louis Vanoverschelde, MD

16.30 – 17.00 Discussion

Concurrent Session IV: Bicuspid AV

Moderators: Hector Michelena, MD
Alessandro Della Corte, MD
Simon Body, MD
Jyothy Puthumana, MD
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<td>15.30 – 15.45</td>
<td>Genetics in BAV: Problem Solved?</td>
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<td>Bart Loeys, MD</td>
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<td>15.45 – 16.00</td>
<td>BAV Phenotype and Clinical Outcomes: Age-dependent?</td>
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<td>Luciana Young, MD</td>
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<td>16.00 – 16.15</td>
<td>BAV Aortopathy: Should New Science Influence My Patient’s Risk-Assessment</td>
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<td>Paul Fedak, MD</td>
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<td>16.15 – 16.30</td>
<td>Surgical Repair for Isolated Severe BAV Regurgitation: When, Who, and How?</td>
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<td>Hans-Joachim Schafers, MD</td>
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<td>16.30 – 17.00</td>
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**Concurrent Session V: Tricuspid Valve Disease**

**Moderator:** Gilles Dreyfus, MD
Robert Dion, MD

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<tr>
<td>15.30 – 15.45</td>
<td>Assessment and Quantification of Tricuspid Annulus and Regurgitation by Echocardiography</td>
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<td>David Messika-Zeitoun, MD</td>
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<tr>
<td>15.45 – 16.00</td>
<td>Should Less Than Severe TR Be Addressed During Left Sided Surgery</td>
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<td>Michele De Bonis, MD</td>
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<tr>
<td>16.00 – 16.15</td>
<td>Tricuspid Leaflet Tethering, Definition, Treatment</td>
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<td>Robert A. Dion, MD</td>
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<td>16.15 – 16.30</td>
<td>Secondary or Recurrent TR After Surgery, When Operate, How to Select The Patients</td>
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<td>Gilles Dreyfus, MD</td>
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<td>16.30 – 17.00</td>
<td>Discussion</td>
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**Concurrent Session VI: Heart Valve Outcomes Abstracts**

**Moderators:** Blasé Carabello, MD
Thoralf Sundt, MD

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<td>15.30 – 15.40</td>
<td>B16. Prognostic Impact of Age and Sex Adjusted B-Type Natriuretic Peptide Upon Clinical Outcome in Patients with Organic Mitral Regurgitation</td>
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<td>Marie-Annick Clavel1, Christophe Tribouilloy2, Jean-Louis Vanoverschelde3, Rodolfo Pizarro4, Rakesh M. Suri1, Catherine Szymanski2, Siham Lazam3, Maurice Enriquez-Sarano1.</td>
<td>Mayo Clinic, Rochester, MN, USA, 2Centre Hospitalier Universitaire d'Amiens, Amiens, France, 3Université catholique de Louvain, Bruxelles, Belgium, 4Hospital Italiano, Buenos Aires, Argentina.</td>
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<td>15.40 – 15.50</td>
<td>B17. Aortic Valve-sparing With The Reimplantation Technique (El Khoury-David Operation) In Patients With A Bicuspid Valve: Long-term Results</td>
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<td>Stefano Mastrobuoni, Maxime Laflamme, Jean Rubay, Philippe Noirhomme, Laurent de Kerchove, Gebrine El Khoury.</td>
<td>St. Luc’s Hospital, Catholic Univeristy of Louvain, Brussels, Belgium.</td>
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<td>15.50 –16.00</td>
<td>B18. Detrimental Impact Of Prosthetic Aortic Endocarditis On Early And Long-term Outcome And Lack Of Improvements In The Last</td>
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Years: Results From The Multicenter European "Record" (redo Cardiac Operation Research Database) Initiative
Francesco Onorati1, Fausto Biancari2, Marisa De Feo3, Livio San Biagio1, Giovanni Mariscalco4, Antonio Messina5, Giuseppe Santarpino6, Francesco Santini7, Giuseppe Faggian1.
1Division of Cardiac Surgery, University of Verona Medical School, Verona, Italy, Italy, 2Division of Cardiac Surgery, University of Oulu, Oulu, Finland, Finland, 3Department of Cardiothoracic and Respiratory Sciences, Second University of Naples, Naples, Italy, Italy, 4Cardiac Surgery Unit, Varese University Hospital, Varese, Italy, Italy, 5Cardiac Surgery Unit, Poliambulanza Foundation Hospital, Brescia, Italy, Italy, 6Department of Cardiac Surgery, Klinikum Nürnberg, Nuremberg, Germany, Germany, 7Cardiac Surgery Unit, San Martino University Hospital, Genova, Italy, Italy.

Bardia Arabkhani, Elrozy Andrinopoulou, Jos Bekkers, Johanna Takkenberg, Ad Bogers.
Erasmus MC, Rotterdam, Netherlands.

16.10 – 16.20 B20. Patient-prosthesis Mismatch After Mitral Valve Replacement
Yong Han Kim, Ho Young Hwang, Kyung-Hwan Kim, Ki-Bong Kim, Hyuk Ahn.
Seoul National University Hospital, Seoul, Korea, Republic of.

16.20 – 16.30 B21. Hemodynamic Predictors of Normally Sized Ascending Aorta in Patients with Bicuspid Aortic Valve Stenosis
Evaldas Girdauskas1, Mina Rouman1, Kushtrim Disha1, Andres Espinoza1, Georg Dubslaff1, Beatrix Fey1, Bernhard Theis2, Iver Petersen2, Michael A. Borger3, Thomas Kuntze1.
1Central Hospital Bad Berka, Bad Berka, Germany, 2Institute of Pathology, Friedrich-Schiller University Jena, Germany, 3Columbia University Medical Center, New York, NY, USA.

16.30 – 16.40 B22. Long-Term Outcomes Of Aortic Valve Replacement With Or Without Concurrent Coronary Revascularization In Morbid And Extreme Morbid Obesity- Does The Obesity Paradox Hold Up?
Tomasz Timek1, Olivia Hulme2, Ben Himelhoch2, Alan Davis3, Charles Willekes1, Edward Murphy1, Theodore Boeve1, John Heiser1, Lawrence Patzel1.
1Meijer Heart and Vascular Institute, Grand Rapids, MI, USA, 2Michigan State College of Human Medicine, Grand Rapids, MI, USA, 3Grand Rapids Education Partners, Grand Rapids, MI, USA.

17:00 – 17.30 Annual Business Meeting
17.30 – 19:00 Welcome Reception

FRIDAY, MAY 8

7:00 am Continental Breakfast – Fairmont

8.30 – 10.00 Concurrent Session I: Degenerative MR
Moderators: David Adams, MD, Ottavio Alfieri, MD
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<td>8.30 – 8.45</td>
<td>Mitral Valve Repair with Resection</td>
<td>David Adams, MD</td>
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<td>8.45 – 9.00</td>
<td>Mitral Valve Repair without Resection</td>
<td>Patrick Perier, MD</td>
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<td>9.00 – 9.15</td>
<td>Clipping for Inoperable Patients</td>
<td>Paul Sorajja, MD</td>
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<td>9.15 – 9.30</td>
<td>Long Term Outcomes</td>
<td>Ottavio Alfieri, MD</td>
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<td>9.30 – 10.00</td>
<td>Discussion</td>
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**Concurrent Session II: Percutaneous Valve Therapies Keynote & Award Abstracts**

**Moderator:** Martin Leon, MD

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<td>8.30 – 8.45</td>
<td>Percutaneous Valve Therapies Keynote</td>
<td>Martin Leon, MD</td>
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<td>8.45 – 8.55</td>
<td>A22. Six Months Follow Up Results from Multicentre First-in-Man Feasibility Trial of a Percutaneous mitral valve direct annuloplasty system</td>
<td>Karl Heinz Kuck1, Alec Vahanian2, Antonio Colombo3, Georg Nickenig4, Stephan Baldus5, Christian Frerker6, David Messika-Zeitoun2, Francesco Maisano7. 1Asklepios Clinic St. Georg, Hamburg, Germany, 2Bichat Hospital, Paris, France, 3San Raffaele University Hospital, Milan, Italy, 4Universitätsklinikum Bonn, Bonn, Germany, 5Cologne University Heart Center, Köln, Germany, 6Asklepios Clinic St. Georg, Hamburg, Grenada, 7University Hospital Zurich, Zurich, Switzerland.</td>
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<tr>
<td>8.55 – 9.05</td>
<td>A23. Transcatheter Mitral Valve Implantation for the Treatment of Mitral Regurgitation ; First-in-Man Experience with an Apically Tethered Device</td>
<td>Neil Moat1, Alison Duncan2, Cesare Quarto2, Alastair Lindsay1, Micheal Gosh-Dastidar1, Simon Davies1. 1Royal Brompton Hospital, London, United Kingdom, 2royal brompton hospital, london, United Kingdom.</td>
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<tr>
<td>9.15 – 9.25</td>
<td>A25. Would Any Mitral Annuloplasty Ring And Band Be Suitable For Valve-in-Ring Technique And How To Size</td>
<td>Gry Dahle, Kjell Arne Rein, Arnt E. Fiane. Rikshospitalet, Oslo University Hospital, Oslo, Norway.</td>
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<td>9.25 – 9.35</td>
<td>A26. Multicenter Assessment of SAPIEN 3 Implantation with Optimization of Clinical Outcomes: Result of the OPTIMAL S3 study</td>
<td>Danny Dvir1, Julinda Mehilli2, Thomas Walther3, Tamir Levi4, Matheus Simonato1, David Wood1, John Webb1. 1St Paul's Hospital, Vancouver, BC, Canada, 2Munich, Munich heart center, Germany, 3Kerckhoff HeartCenter, Bad Nauheim, Germany, 4Edwards Lifescinces, Caesaria, Israel.</td>
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9.35 – 9.45  **A27. Effect of Transcatheter Aortic Valve Tissue Thickness on Leaflet Stress Distribution: A Finite Element Study under Dynamic Loading Condition**  
*University of Denver, Denver, CO, USA.*

*Jose L. Navia.*  
*Cleveland Clinic, Cleveland, OH, USA.*

**Concurrent Session III: Imaging Case Review I**  
Moderator: Randolph Martin, MD

**Concurrent Session IV: Biomarkers in Valve Diseases**  
Moderators: Marie-Annick Clavel, MD  
TBD, MD

8.30 – 8.45  Interest in B-Type Natriuretic Peptide in Mitral Valve Disease  
TBD, MD

8.45 – 9.00  Interest in B-Type Natriuretic Peptide in Aortic Valve Disease  
Marie-Annick Clavel, MD

9.00 – 9.15  High-Sensitivity Troponin I and LV Hypertrophy in Aortic Stenosis  
Marc Dweck, MD

9.15 – 9.30  Role of microRNAs in Aortic Valve Calcification  
Magnus Back, MD

9.30 – 10.00  Discussion

**Concurrent Session V: Rheumatic Heart Disease**  
Moderators: David Messika-Zeitoun, MD  
Chotivatanapong Taweesak, MD

8.30 – 8.45  Epidemiology of Rheumatic Disease  
Mariana Mirabel, MD

8.45 – 9.00  Percutaneous Treatment of Mitral Stenosis – Patients Selection and Long Term Results  
David Messika-Zeitoun, MD

9.00 – 9.15  Rheumatic Mitral Valve Repair for All: Possible and Justify?  
Chotivatanapong Taweesak, MD

9.15 – 9.30  Primary and Secondary Prevention  
Ana Olga Mocumbi, MD

9.30 – 10.00  Discussion

**Concurrent Session VI: Heart Valve Basic Science Research Abstracts**  
Moderator(s): John Elefteriades, MD

8.30 – 8.40  **B23. Unifying Mechanisms of MVP; From Gene Mutations to Treatments: Results from a Leducq Transatlantic Consortium on Mitral Valve Disease**  
*Chip Norris1*, Katelynn Toomer1, Kimberly Sauls1, Roger Markwald1, Christian Dina2, Nabila Bouatia-Naji3, Nathan Tucker4, Jean-Jacques
8.40 – 8.50  **B24. Maintenance of Aortic Valve Competence in Marfan Syndrome**
John Pepper\(^1\), Mario Petrou\(^2\), Filip Rega\(^3\), Conal Austin\(^4\), Ulrich Rosendahl\(^1\), Raad Mohiaddin\(^5\), Tom Treasure\(^6\).
\(^1\)National Institute of Health Research (NIHR) Cardiovascular Biomedical Research Unit (BRU), Royal Brompton Hospital, London, UK, London, United Kingdom, \(^2\)John Radcliffe Hospital, Oxford, United Kingdom, \(^3\)University Hospital, Leuven, Belgium, \(^4\)St Thomas’ Hospital, London, United Kingdom, \(^5\)Imperial College, London, United Kingdom, \(^6\)University College London, London, United Kingdom.

8.50 – 9.00  **B25. Involvement of LRRFip1 gene and canonical Wnt pathway in Mitral Valve Prolapse (MVP)**
Pauline Labbé\(^1\), Emilie Faure\(^2\), Simon Lecointe\(^1\), Florence Kyndt\(^1\), Thierry Le Tourneau\(^1\), José Luis de la Pompa\(^3\), Cécile Duplaà\(^4\), Stéphane Zaffran\(^2\), Jean-Jacques Schott\(^1\), Jean Mérot\(^1\).
\(^1\)Inserm U1087 Institut du Thorax, Nantes, France, \(^2\)Inserm UMR S_910, Marseille, France, \(^3\)CNIC National Cardiovascular Research Center, Madrid, Spain, \(^4\)Inserm U1034, Pessac, France.

Francesco Sturla\(^1\), Francesco Onorati\(^1\), Emiliano Votta\(^2\), Konstantinos Pechlivanidis\(^1\), Omar Pappalardo\(^1\), Giovanni Puppini\(^1\), Alberto Redaelli\(^2\), Giuseppe Faggian\(^1\).
\(^1\)Università degli Studi di Verona, Verona, Italy, \(^2\)Politecnico di Milano, Milano, Italy.

9.10 – 9.20  **B27. Oct4 : A Novel Player In Endothelio-Mesenchymal Transition During Developmental Valvulogenesis And In Valvulopathies**
Emily Farrar\(^1\), Thomas Moore-Morris\(^2\), Emiyle Hiriart\(^2\), David Peal\(^3\), David Milan\(^3\), Jonathan Butcher\(^1\), Michel Puceat\(^2\).
\(^1\)Cornell University, Ithaca, NY, USA, \(^2\)Inserm, Marseille, France, \(^3\)Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA.

Kai Cao, Philippe Sucosky.
University of Notre Dame, Notre Dame, IN, USA.

9.30 – 9.40  **B29. EGFR is required for Heart Valve Development and Homeostasis**
Bingruo Wu\(^1\), Xiangjiang Chen\(^2\), Michael J. Campbell\(^3\), Bin Zhou\(^1\).
\(^1\)Albert Einstein College of Medicine, Bronx, NY, USA, \(^2\)The First Affiliate
B30. Targeted Next-generation Sequencing of Nine Candidate Genes in Bicuspid Aortic Valve Patients Identifies Novel and Known Potentially Pathogenic Variants
Natasha Dargis1, Maxime Lamontagne1, Nathalie Gaudreault1, Laura Sbarra1, Cyndi Henry1, Philippe Pibarot1, Patrick Mathieu1, Yohan Bosse2.
1Centre de recherche Institut univ de cardiologie et de pneumologie de Quebec, Quebec, QC, Canada, 2Department of Molecular Medicine, Laval University, Quebec, QC, Canada.

10:00 – 10:30 Coffee Break, Poster Viewing

Concurrent Session I: Aortic Valve Repair: Setting Up New Standards for the Treatment of Aortic Regurgitation
Moderators: Hans-Joachim Schaefers, MD
Jean-Louis Vanoverschelde, MD

10.30 – 10.45 What Echo Criteria for Selection
Jean-Louis Vanoverschelde, MD

10.45 – 11.00 What Intraoperative Criteria for Repair
Laurent De Kherchove, MD

11.00 – 11.15 Concepts of Aortic Valve Repair
Hans-Joachim Schaefers, MD

11.15 – 11.30 Benefits of Repair
Emmanuel Lansac, MD

11.30 – 12.00 Discussion

Concurrent Session II: Heart Valve Outcomes Keynote & Award Abstracts
Moderator: Robert Bonow, MD

10:30 – 10:45 Heart Valve Outcomes Keynote
Robert Bonow, MD

10.45 – 10.55 A29. 50 Years’ Follow-up of Mechanical Heart Valve Replacement: Late Survival and Prosthesis Durability
Tony Furnary1, Gary Grunkemeier2, Mansen Wang2, Albert Starr3.
1StarrWood-Cardiac Group, Portland, OR, USA, 2Providence Health & Services, Portland, OR, USA, 3Oregon Health & Science University, Portland, OR, USA.

10.55 – 11.05 A30. Very Long-term Outcomes Of The Carpentier-Edwards Perimount Aortic Valve In Patients Aged Between 50 To 65: The End Of The Grey Zone?
Thierry Bourguignon, Rym El Khoury, Pierre Lhommet, Claudia Loardi, Alain Mirza, Julie Boulanger-Lothion, Anne Lorraine Bouquiaux-Stablo-Duncan, Michel Marchand, Michel Aupart. Trousseau Hospital, Tours, France.

11.05 – 11.15 A31. Assessment of Frailty using patient-provided information
independently predicts outcome in Aortic Stenosis

**Marie-Annick Clavel**, Sheila M. Manemann, Joseph Malouf, Hector I. Michelen, Veronique L. Roger, Maurice Enriquez-Sarano.
*Mayo Clinic, Rochester, MN, USA.*

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<td>11.15 – 11.25</td>
<td>A32.</td>
<td>Phenotypes of Mitral Valve Prolapse as a Cause of Sudden Death: a Case-Control Study</td>
<td>Jerome HOURDAIN1, Marie Annick Clavel2, Jean Claude Deharo1, Gilbert Habib1, Maurice Enriquez Sarano3.</td>
<td>1CHU TIMONE, MARSEILLE, France, 2IUCPQ, QUEBEC, QC, Canada, 3Mayo Clinic, Rochester, MN, USA.</td>
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<td>11.25 – 11.35</td>
<td>A33.</td>
<td>Decellularized Aortic Valve Allografts - 10 Years Experience</td>
<td>Francisco D. Costa, Daniele Fornazari Colatusso, Ana Claudia Brenner Affonso da Costa, Claudinei Colatusso, Andreia Dumsch Ferreira, Sergio Veiga Lopes.</td>
<td>1CHU TIMONE, MARSEILLE, France, 2IUCPQ, QUEBEC, QC, Canada, 3Mayo Clinic, Rochester, MN, USA.</td>
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<td>11.35 – 11.45</td>
<td>A34.</td>
<td>Progression of Mitral Valve Prolapse: a Follow-up Investigation in the Framingham Heart Study</td>
<td>Francesca N. Delling1, Jian Rong2, Martin G. Larson2, Birgitta Lehman2, Ewa Osypiuk2, Plamen Stantchev2, Emelia J. Benjamin2, Robert A. Levine3, Ramachandran S. Vasan2.</td>
<td>1Beth Israel Deaconess Medical Center, Boston, MA, USA, 2Framingham Heart Study, Framingham, MA, USA, 3Massachusetts General Hospital, Boston, MA, USA.</td>
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<td>11.45 – 11.55</td>
<td>A35.</td>
<td>Comparison Of Cardiac Surgery With Left Atrial Ablation vs. Cardiac Surgery Without Ablation In Patients With Valvular Heart Disease: Subanalysis Of The PRAGUE-12 Prospective Randomized Study.</td>
<td>Petr Budera1, Pavel Osmancik1, Marek Maly2, Zbynek Straka1.</td>
<td>1University Hospital Kralovske Vinohrady, Prague, Czech Republic, 2National Institute of Public Health, Prague, Czech Republic.</td>
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**Concurrent Session III: New Approaches to the Mitral Annulus**

Moderators: Carlos Ruiz, MD
            Hugo Vanermen, MD

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<td>Assessing the Mitral Annulus Anatomy Through Innovative Imaging Approaches</td>
<td>Carlos Ruiz, MD</td>
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<td>10.45 – 11.00</td>
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<td>Transcatheter Direct Adjustable Annuloplasty Devices</td>
<td>Hugo Vanermen, MD</td>
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<td>11.00 – 11.15</td>
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<td>Bridging Conventional Wisdom – “The Mitral Annular Bridge”</td>
<td>Valavanur Subramanian, MD</td>
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<td>11.15 – 11.30</td>
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<td>The Docking Concept for Transcatheter Mitral Replacement: The Cardiac Implants Approach</td>
<td>Carlos Ruiz, MD</td>
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**Concurrent Session IV: InterAmerican Society of Cardiology Collaborative Session**

Moderators: Marcia Barbosa, MD
           Jose Pomar, MD

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<td>10.30 – 10.45</td>
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<td>MS: Beyond Gradients and Mitral Valve Area</td>
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<td>10.45 – 11.00</td>
<td>3D Impact on Valve Management</td>
<td>Clara Vazquez, MD</td>
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<td>11.00 – 11.15</td>
<td>Is Mitral Valve Repair a Dream or a Reality in Latin America?</td>
<td>Javier Dario, MD</td>
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<td>11.15 – 11.30</td>
<td>The Ross Operation in 2015: Our Large Experience Over the Years</td>
<td>Francisco Costa, MD</td>
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**Concurrent Session V: Epidemiology**
Moderators: Johanna Takkenberg, MD
            Jeffrey Borer, MD

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<td>Mitral Valve Regurgitation: Natural History and Optimal Treatment Strategies</td>
<td>Raphael Rosenhek, MD</td>
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<td>10.45 – 11.00</td>
<td>Gender Differences in the Diagnosis and Surgical Treatment of VHD</td>
<td>Johanna Takkenberg, MD</td>
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<td>11.00 – 11.15</td>
<td>The Current Epidemiology and Case Distribution of Valvular Regurgitation at a Time of Increasing Disease Awareness</td>
<td>Jeffrey Borer, MD</td>
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<td>11.15 – 11.30</td>
<td>Epidemiology of the Bicuspid Aortic Valve and it’s Sequelae</td>
<td>John Elefteriades, MD</td>
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<td>11.30 – 12.00</td>
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**Concurrent Session VI: 3-D Echo Imaging – How to Use the Quantitative Software**
Moderators: A. Jamil Tajik, MD

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<td>Mitral Valve</td>
<td>Hani Mohamed Mahmoud</td>
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<td>10.45 – 11.00</td>
<td>Aortic Annulus and Root</td>
<td>Mani Vanna, MD</td>
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<td>11.00 – 11.15</td>
<td>Tricuspid Valve</td>
<td>TBD, MD</td>
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<td>11.15 – 11.30</td>
<td>Quantification of Regurgitation (3D Pisa)</td>
<td>TBD, MD</td>
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12:00 – 13:30  **Industry Lunch Symposium**

13.30 – 15.00  **Concurrent Session I: Great Debates**

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<td></td>
<td>Pro: MV Replacement is the Procedure of Choice</td>
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Con: MV Repair is Still Indicated  
Robert Dion, MD

14.15 – 15.00 Debate II: TAVI in Low- to Medium-Risk Patients

Pro: TAVI Should be Performed in Low- to Medium-Risk Patients  
Corrado Tamburino, MD

Con: Surgical AVR Is and Will Remain the Gold Standard  
Thomas Walther, MD

Concurrent Session II: Mitral Valve Prolapse: New Insights  
Moderators: Jane Grande-Allen, MD  
            Robert Levine, MD

13.30 – 13.45 Animal Models of Mitral Valve Prolapse  
Robert Levine, MD

13.45 – 14.00 Examining the Role of Tension on Mitral Valve Remodeling In Vitro  
Jane Grande-Allen, MD

14.00 – 14.15 New Insights into Remodeling Mechanisms Involved in Mitral Valve Prolapse  
Joy Lincoln, MD

14.15 – 14.30 Personalized Computational Modeling of Mitral Valve Prolapse for Surgical Planning  
Hyunggun Kim, MD

14.30 – 15.00 Discussion

Concurrent Session III: Valve Replacement – Past & Future  
Moderators: Alain Carpentier, MD  
            Didier Lapeyre, MD

TBD, MD

13.45 – 14.00 Flow Induced Thrombosis: New Insights from Experimental, Numerical & Bio-Molecular Methodologies  
Dominik Obrist, MD

14.00 – 14.15 Novel Bench Test Methods for Evaluating Mechanical Heart Valves  
Ajit Yoganathan, MD

14.15 – 14.30 The Concept of Mechanical Bioprosthesis: Design & Materials  
Didier Lapeyre, MD

14.30 – 15.00 Discussion

Concurrent Session IV: Structural Bioprosthesis Degeneration  
Moderators: Gino Gerosa, MD  
            Vered Padler-Karavani, MD  
            Rafael Manez, MD  
            Jean Christian Roussel, MD

13.30 – 13.45 Translink European Project Dedicated to SVD: An Overview
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<td>13.45</td>
<td>SVD: Immunologic or Non-Immunological Process?</td>
<td>Jean Christian Roussel, MD</td>
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<td>14.00</td>
<td>Epidemiology and Diagnosis of SVD</td>
<td>Bart Meuris, MD</td>
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<td>14.15</td>
<td>SVD Treatment: Redo Surgery or Valve-in-Valve?</td>
<td>Vinod Thourani, MD</td>
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<td>14.30</td>
<td>Discussion</td>
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**Concurrent Session V: Endocarditis**

**Moderators:** Gilbert Habib, MD  
Marta Sitges, MD

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<tr>
<td>13.30</td>
<td>Improvements in Diagnosis by Imaging: Multimodality Imaging is Here to Stay</td>
<td>Gilbert Habib, MD</td>
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<td>13.45</td>
<td>Device Endocarditis</td>
<td>Marta Sitges, MD</td>
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<td>14.00</td>
<td>Evolving Indications for Surgery</td>
<td>Carlos Mestres, MD</td>
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<td>14.15</td>
<td>Valve Repair in Endocarditis: Current Status and Outcomes</td>
<td>Gilles Dreyfus, MD</td>
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15:00 – 15:30 Coffee Break, Poster Viewing

**Concurrent Session I: Mitral and Tricuspid Disease**

**Moderators:** Maurice Sarano, MD  
Christophe Tribouilloy, MD

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<td>15.30</td>
<td>The LV in Patients with MR: A Practical Approach to Avoid LV Dysfunction</td>
<td>Christophe Tribouilloy, MD</td>
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<td>15.45</td>
<td>How to Quantify MR and How Useful Is It?</td>
<td>TBD, MD</td>
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<td>16.00</td>
<td>MVP, Is It Benign? What are the Surgical Indications for Degenerative MR</td>
<td>Jean Francois Avierinos, MD</td>
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<td>16.15</td>
<td>How to Assess TR and What To Do With the Information?</td>
<td>Yan Topilsky, MD</td>
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**Concurrent Session II: Heart Valve Repair Keynote & Award Abstracts**

**Moderator:** Gilles Dreyfus, MD

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<tr>
<td>15.30</td>
<td>Heart Valve Repair Keynote</td>
<td>Gilles Dreyfus, MD</td>
</tr>
<tr>
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<td>Authors</td>
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<tr>
<td>15.45</td>
<td>A36. Long Term Results Of External Aortic Ring Annuloplasty For Aortic Valve Repair</td>
<td>Emmanuel LANSAC1, Isabelle Di Centa2, Ghassan Sleilaty1, Alain Berrebi1, Nizar Khellil1, Konstantinos Zannis1, Patrice Dervanian1, Susanna Salvi1, Mathieu Debauchez1. 1Institut Mutualiste Montsouris, PARIS, France, 2Hopital Foch, SURESNES, France.</td>
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<td>16.05</td>
<td>A38. Early Results and Mid-Term Durability of Extra-Aortic Annuloplasty Ring Implantation on Aortic Annular Dimensions and Dynamics</td>
<td>Lauren Basmadjian1, Arssene Basmadjian1, Louis-Mathieu Stevens2, Nancy Poirier1, Raymond Cartier1, Ismail El-Hamamsy1. 1Montreal Heart Institute, Montreal, QC, Canada, 2CHUM, Montreal, QC, Canada.</td>
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<td>16.15</td>
<td>A39. Development of In-Body Tissue-Engineered Heart Valve (Biovalve Type VIII) and Its Preclinical Study in a Beagle Model with Congenital Pulmonary Stenosis</td>
<td>Yasuhide Nakayama1, Masami Uechi2, Takeshi Moriwaki1, Marina Funayama1, Takeshi Mizuno2, Maya Furukoshi1. 1National Cerebral and Cardiovascular Center, Osaka, Japan, 2Veterinary Cardiovascular Medical Center, JASMIN, Yokohama, Japan.</td>
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Concurrent Session III: Transcatheter valve Implantation in Failed Bioprosthesis/Rings: The Valve-in-Valve Approach

Moderators: Danny Dviv, MD

15.30 – 15.40 Introduction to Valve-in-Valve Therapies and Update from the VIVVD Registry
Danny Dviv, MD
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<td>Coronary Occlusion: Preprocedural Evaluation, Protection, and Treatment</td>
<td>Chad Kligel, MD</td>
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<td>15.50 – 16.00</td>
<td>Elevated Gradients: The “Achilles Heel” of Valve-in-Valve Procedures</td>
<td>Sabine Bleiziffer, MD</td>
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<td>16.00 – 16.10</td>
<td>Treatment of Failed Homografts and Stentless Bioprosthesis</td>
<td>Alison Duncan, MD</td>
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<td>16.10 – 16.20</td>
<td>Mitral Valve-in-Valve / Valve-in-Ring</td>
<td>Ehud Raanani, MD</td>
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<td>16.20 – 16.30</td>
<td>Tricuspid Valve-in-Valve / Valve-in-Ring</td>
<td>David Holzhey, MD</td>
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<td>16.30 – 17.00</td>
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**Concurrent Session IV: Achieving Clinical Approval**
Moderators: Jeffrey Borer, MD Jose Pomar, MD

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<td>Putting Together the Long-Term Results of the Randomized SYNTAX Trial</td>
<td>Michael Mack, MD</td>
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<td>15.45 – 16.00</td>
<td>FDA and CE: Do They Search for the Same Goals in the Same Way?</td>
<td>John Ely, MD</td>
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<td>16.00 – 16.15</td>
<td>Current Criteria for Prosthetic Valve Approval and Major Impediments to Their Achievement</td>
<td>Jeffrey Borer, MD</td>
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<td>16.15 – 16.30</td>
<td>What Bench Studies are Needed to Support Design of Implements for Valve-in-Valve and Paravalvular Leak Repair Procedures?</td>
<td>Ajit Yoganathan, MD</td>
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**Concurrent Session V: Management of Transcatheter Complications**
Moderator: Carlos Ruiz, MD Vinod Thourani, MD

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<tr>
<td>15.30 – 15.45</td>
<td>Managing Coronary Occlusion During Primary TAVR and Valve-In-Valve Externally Mounted Bioprosthesis</td>
<td>Carlos Ruiz, MD</td>
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<td>15.45 – 16.00</td>
<td>Management of Acute Hemodynamic Collapse During TAVR</td>
<td>David Holzhey, MD</td>
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<td>16.00 – 16.15</td>
<td>Management of and Prevention of Acute and Remote Paravalvular Leak Following TAVR</td>
<td>Vinod Thourani, MD</td>
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<td>16.15 – 16.30</td>
<td>Management of Failures During and After a Transcatheter Mitral Procedure</td>
<td>Hugo Vanerman, MD</td>
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<td>16.30 – 17.00</td>
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**Concurrent Session VI: Minimally Invasive Heart Valve Abstracts**
Moderators: Rakesh Suri, MD Mattia Glauber, MD
Fraser W H Sutherland, MD.
Golden Jubilee National Hospital, Glasgow, United Kingdom.

15.40 – 15.50  B32. Intermediate and Long-term Results of Prosthetic Heart Valves Made From Ultra High Molecular Weight Polyethylene Fibers, an In-vivo Experiment.
Amir Basir, Remco Grobben, Gerard Pasterkamp, Jolanda Kuin, Paul Gründeman.
University Medical Center Utrecht, Utrecht, Netherlands.

15.50 – 16.00  B33. Is Minimally Invasive Mitral Valve Repair With Artificial Chords Reproducible In Routine Surgery?
ARISTOTELIS PANOS1, Patrick-Olivier Myers2.
1CLINIQUE LA COLLINE, GENEVA, Switzerland, 2UNIVERSITY HOSPITAL OF GENEVA, GENEVA, Switzerland.

16.00 – 16.10  B34. Minimally Invasive Complex Mitral Valve Repair: a single center Experience
Davide Ricci, Massimo Boffini, Cristina Barbero, Suad ElQarra, Giovanni Marchetto, Francesca Ivaldi, Mauro Rinaldi.
AOU Città della Salute e della Scienza di Torino - University of Turin, Turin, Italy.

Tomasz Niklewski, Marcin Kaczmarczyk, Krzysztof Filipiak, Michael Zembala Jr., Roman Przybylski, Jacek Wojarski, Marian Zembala.
Silesian Center For Heart Diseases, Zabrze, Poland.

Juan P. Umana, Marisol Carreno Jaimes, Jaime Camacho, Nestor F. Sandoval.
Fundación Cardioinfantil - Cardiology Institute, Bogota, Colombia.

16.30 – 16.40  B37. Isolated Tricuspid Valve Surgery Using an Endoscopic Robotic Technique
Douglas A. Murphy, Emmanuel Moss, Michael E. Halkos.
Emory University, Atlanta, GA, USA.

16.40 – 16.50  B38. Conversion To Full Sternotomy In Minimally Invasive Mitral Valve Surgery Is Associated With Increased, But Not Excessive Mortality
Bastian Schneider, Christoph Krapf, Elfriede Ruttmann-Ulmer, Juliane Kilo, Herbert Hängler, Michael Grimm, Ludwig Mueller.
Department of Cardiac Surgery, Innsbruck, Austria.

19:00 – 22:00  Presidents Reception
8:20 – 8:30  Award Presentations for Best Abstracts
Michael A. Borger, MD
President
Maurice E. Sarano, MD
President-Elect
Gilles D. Dreyfus, MD
Program Chair

8.30 – 10.00  Concurrent Session I: Percutaneous and Minimally Invasive Valve Interventions: The Latest
Moderators: Saibal Kar, MD
Gilles Dreyfus, MD

8.30 – 8.45 Robotic Surgery
Dider Loulmet, MD
Rakesh Suri, MD

8.45 – 9.00 Mitral Clip: What is the Future?
Saibal Kar, MD

9.00 – 9.15 Transapical Neochordae, The Topmini Revolution: Shifting the Paradigm from Minimally Invasive to Microinvasive Mitral Valve Repair
Gino Gerosa, MD

9.15 – 9.30 Percutaneous Annuloplasty: Where Are We?
Dominique Himbert, MD

9.30 – 10.00 Discussion

Concurrent Session II: My Most Interesting Case - Cardiology
Moderator: Blasé Carabello, MD

Concurrent Session III: Heart Valve Repair Abstracts
Moderators: Patrick Perrier, MD
James Gammie, MD

8.30 – 8.40 B39. Glenn Operation In Association With Tricuspid Repair According To peacock Tail” Technique In Patients With Ebstein Malformation And Failing Right Ventricle”
Edvin Prifti, Sr.1, Arben Baboci1, Efrosina Kajo1, Altin Veshti1, Giampiero Esposito2, Vittorio Vanini2.
1University Hospital Center of Tirana, Tirana, Albania, 2Humanitas Gavazzeni Clinic, Bergamo, Italy.

Eva Maria Delmo Walter1, Alexander Horke2, Luitgard Meschenmoser2, Mariano Javier3, Roland Hetzer1.
1Deutsches Herzzentrum Berlin, Berlin, Germany, 2Medizinische Hochschule Hannover, Hannover, Germany, 3Harvard Medical School, Boston, MA, USA.

8.50 –9.00 B41. Posterior Annulus Shortening Increases Leaflet Coaptation in Ischemic Mitral Incompetence: a New Concept and Valid Technique
Eva Maria Delmo Walter, Natalia Solowjowa, Henryk Siniawski, Roland Hetzer.
Deutsches Herzzentrum Berlin, Berlin, Germany.
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| 9.00 – 9.10| **B42. Degenerative Mitral Valve Repair: Mechanisms And Risk Of Late Repair Failure**  
Dan Spiegelstein, Michael Stein, Rafael Kuperstein, Uri Vaturi, Micha S. Feinberg, Leonid Sternik, Ehud Raanani.  
*Chaim Sheba Medical Center, Ramat Gan, Israel.* |
*Cedars-Sinai Medical Center, Los Angeles, CA, USA.* |
| 9.20 – 9.30| **B44. Surgical Repair of Unicuspid Aortic Valves: Technical Reproducibility and Early Echocardiographic Results**  
Ismail El-Hamamsy1, Michael Chu2, Jessica Forcillo1, Nancy Poirier1.  
1*Montreal Heart Institute, Montreal, QC, Canada, 2London Health Sciences Center, London, ON, Canada.* |
| 9.30 – 9.40| **B45. Aortic Valve Repair: Our Ten Years Experience**  
Monica Contino1, Andrea Mangini1, Claudia Romagnoni1, Guido Gelpi1, Paolo Vanelli1, Carlo Antona2.  
1*Ospedale Sacco University General Hospital, Milano, Italy, 2Università degli studi di Milano, Milano, Italy.* |
| 9.40 – 9.50| **B46. Long-term Outcomes of Various Tricuspid Valve Repair Techniques in Patients with Previously Implanted Permanent Pacemaker or Implantable Cardioverter Defibrillator Leads**  
Asim Khan, Eva Maria Delmo Walter, Roland Hetzer.  
*Deutsches Herzzentrum Berlin, Berlin, Germany.* |

**Concurrent Session IV: Aortic Valve Repair Case Review**  
Moderator: Emmanuel Lansac, MD

**Concurrent Session V: Sutureless Aortic Valves (Hands-On)**  
Moderator: Mattia Glauber, MD

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| 10.00 – 11.30| **Concurrent Session I: Ross / Homograft**  
Moderator: Johanna Takkenberg, MD Francisco Costa, MD  
10.00 – 10.15 How to Set Up a Successful Ross Clinic  
Ismail El-Hamamsy, MD  
10.15 – 10.30 Lessons Learned from the European Ross Registry  
Thorsten Hanke, MD  
10.30 – 10.45 The Fate of the Homograft in the RVOT  
Mostafa Mokhles, MD  
10.45 – 11.00 Does the Autograft Root Adapt Well to the Systemic Circulation  
Elaine Tseng, MD  
11.00 – 11.30 Discussion |
Concurrent Session III: Imaging Case Review II
Moderator: Alain Berrebi, MD

Concurrent Session IV: Mitral Valve Repair Case Review
Moderator: Rakesh Suri, MD

Concurrent Session V: Sutureless Aortic Valves (Hands-On)
Moderator: Mattia Glauber, MD