THE 13th INTERNATIONAL CONFERENCE ON PEDIATRIC MECHANICAL CIRCULATORY SUPPORT SYSTEMS & PEDIATRIC CARDIOPULMONARY PERFUSION

28th-30th September 2017

Pontificia Università Urbaniana
Via Urbano VIII, 16 - 00165 Roma
GUIDELINES FOR CONFERENCE AWARDS

YOUNG INVESTIGATOR AWARDS

The following Young Investigator Awards will be given based on the quality of the original manuscripts.

- The John A. Waldhausen, MD Young Investigator Award
- The William S. Pierce, MD Young Investigator Award
- The Penn State Health Children’s Hospital Young Investigator Award
- The Ospedale Pediatrico Bambino Gesù Young Investigator Award

In order to apply for a Young Investigator Award, the candidate must be less than 40 years of age, must have completed his/her training, and must be employed as a Postdoctoral Fellow, Research Associate, or Instructor, or at a level no greater than Assistant Professor in an institution.

The following guidelines must be adhered to for consideration for a Young Investigator Award.

STEP 1: The candidate must submit an abstract for consideration (abstract deadline is June 1, 2017) and request that the committee consider the abstract for a Young Investigator Award.

STEP 2: Members of the Scientific Committee will decide if the quality of the abstract is adequate for consideration. On or before June 15, 2017, the candidate will receive official notification via e-mail regarding the abstract.

STEP 3: The candidate must submit the following by August 1, 2017 to be considered as an award finalist:

- A full manuscript
- CV
- Letter from the Chair of the Department stating the candidate’s position
- Copies of related articles the candidate published previously

All original manuscripts will be peer-reviewed and published in Artificial Organs. Please refer to the Artificial Organs author guidelines.

STEP 4: Members of the Scientific Committee will choose the awardees. Award winners will be announced during the conference.

Awardees will receive a plaque and $500 (USD).
RESIDENT AWARDS

In order to apply for a Resident Award, the candidate must be currently enrolled in a Residency Program in an institution.

The following guidelines must be adhered to for consideration for a Resident Award.

**STEP 1:** The candidate must submit an abstract for consideration (abstract deadline is June 1, 2017) and request that the committee consider the abstract for a Young Investigator Award.

**STEP 2:** Members of the Scientific Committee will decide if the quality of the abstract is adequate for consideration. On or before June 15, 2017, the candidate will receive official notification via e-mail regarding the abstract.

**STEP 3:** The candidate must submit the following by August 1, 2017 to be considered as an award finalist:

- A full manuscript
- CV
- Letter from the Chair of the Department stating the candidate’s position
- Copies of related articles the candidate published previously

All original manuscripts will be peer-reviewed and published in Artificial Organs. Please refer to the Artificial Organs author guidelines.

**STEP 4:** Members of the Scientific Committee will choose the awardees. Award winners will be announced during the conference.

Awardees will receive a plaque and $500 (USD).

BIOMEDICAL ENGINEERING AWARDS

In order to apply for a Biomedical Engineering Award, the candidate must be currently enrolled in a Bioengineering Department as an undergraduate/graduate student or in an entry-level position within a company.

The following guidelines must be adhered to for consideration for a Biomedical Engineering Award.

**STEP 1:** The candidate must submit an abstract for consideration (abstract deadline is June 1, 2017) and request that the committee consider the abstract for a Young Investigator Award.

**STEP 2:** Members of the Scientific Committee will decide if the quality of the abstract is adequate for consideration. On or before June 15, 2017, the candidate will receive official notification via e-mail regarding the abstract.
STEP 3: The candidate must submit the following by August 1, 2017 to be considered as an award finalist:

- A full manuscript
- CV
- Letter from the Chair of the Department stating the candidate's position
- Copies of related articles the candidate published previously

All original manuscripts will be peer-reviewed and published in Artificial Organs. Please refer to the Artificial Organs author guidelines.

STEP 4: Members of the Scientific Committee will choose the awardees. Award winners will be announced during the conference.

Awardees will receive a plaque and $500 (USD).
PROGRAM CO-DIRECTORS

Antonio Amodeo, M.D.
Akif Ündar, PHD.

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VanderPluym Christina  
**Boston Children's Hospital, Boston, USA**

Wilson Ronald  
**Penn State University, Hershey, USA**
# SCIENTIFIC PROGRAM

## 28th September 2017

### 8:00 - 8:30

**Opening Ceremony**  
Enoc M, President, Bambino Gesù Children Hospital (Italy)  
**Welcome to Bambino Gesù Children Hospital:**  
Raponi M, Medical Director, Bambino Gesù Children Hospital (Italy)  
**Welcome from Organizing Committee:**  
Amodeo A (Italy) - Ündar A (USA)  
**Tribute to Carlo Marcelletti:**  
Iorio FS (Italy)

### 8:30-10:45  
**Plenary Session 1**

**Pediatric Mechanical Circulatory Support System: 2017 Update**  
**Moderators:** Pierce W.(USA), Amodeo A (Rome), Massetti M. (Rome), Gargiulo G. (Bologna)

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 8:30 - 8:45| MCS in pediatric: How does registry data translate to patients care (PediMACS)  
            | VanderPluym CJ (USA)                       |
| 8:45 - 9:00| MCS Hemocompatibility: A difficult Journey  
            | Massicotte P (Canada)                     |
| 9:00 - 9:15| Weaning from MCS in pediatric patients: Fiction or reality?  
            | Miera O (Germany)                         |
| 9:15 - 9:30| New approach in MCS for the Single Ventricle Failure  
            | Adachi I (USA)                            |
| 9:30 - 9:45| Early and Late MCS Post Transplantation: Which Devices? Which Outcome?  
            | Griselli M (Saudi Arabia)                 |
| 9:45 - 10:00| From micro to macro: tailoring VAD in pediatric  
            | Amodeo A (Italy)                          |
| 10:00 - 10:15| Biomarkers, genetics and epigenomics in pediatric VAD Patients  
            | Trivella MG (Italy)                       |
| 10:15 - 10:45| Discussion                                 |

### 10:45-11.15  
**Coffee+Posters+Exhibits**

### 11.15-11.45  
**Keynote Lecture 1**

Treatment of pediatric heart failure: Medical vs Surgical strategies in shortage donor era  
Blume E (USA)
11.45-12.15  Keynote Lecture 2  
OPBG experience: 30 years of pediatric heart transplantation  
Carotti A (Italy)

12.15-12.30  Young Investigator Awards

12.30-13.30  Lunch

13.30 - 14:30  Guest Lecture:  
The Sistina Chapel History  
Director Vatican Museum (Vatican State)

14.30-15.30  Plenary Session 2  
Pediatric Cardiopulmonary Bypass and Adult Congenital Heart Disease  
Moderators: Giamberti A (Italy) - Galletti L. (Italy) - Rosenthal T (USA)

CBP  
14:30 - 14:45  Brain Monitoring and Protection in neonatal and pediatric cardiopulmonary bypass  
Di Chiara L (Italy)

14:45 - 15:00  Perfusion strategies for aortic arch surgery in congenital heart disease  
Luciani GB (Italy)

GUCH  
15:00 - 15:15  Adult Cardiac Transplant in Congenital Heart Disease  
Asif H (England)

15:15 - 15:30  MCS in Adult Congenital Heart Patients  
Morales D (USA)

15:30-16:00  Coffee+Posters+Exhibits

16:00-17.30  Symposium:  
The OPBG Approach in MCS as Destination Therapy  
Moderators: Bacha E (USA) - Gaynor W (USA) - Morales D (USA)

16:00 - 16:10  Cardiologist: Adoriso R (Italy)

16:10 - 16:20  Anestetist: Iodice F (Italy)

16:20 - 16:30  Intensivist: Morelli S (Italy)

16:30 - 16:40  Pneumologist: Paglietti MT (Italy)

16:40 - 16:50  Surgeon: Filippelli S (Italy)

16:50 - 17:00  Cardio-Genetic: D’Amario D. (Italy)

17:00 - 17:10  Medical Engineer: Di Molfetta A (Italy)

17:10 - 17:30  Discussion
17:30 - 18.45  Regular slide presentation on MCS (selection from Abstract)

Moderators: Brancaccio G (Italy) - Agati S (Italy) - Costello JM (USA)

S1 (15 min) : 10min+5min  
S2 (15 min) : 10min+5min  
S3 (15 min) : 10min+5min  
S4 (15 min) : 10min+5min  
S5 (15 min) : 10min+5min

29th September 2017

8:00 - 10:00  Plenary Session 3

ECLS: Utilization, Management and Outcome

Moderators: Di Chiara L (Italy) - Stiller B (Germany) - Annich G (Canada)

08:00 - 08:15  Unloading of L V during pediatric VA-ECMO: new strategies  
Costello JM (USA)

08:15 - 08:30  ECLS support in hemopoietic stem cells Tx: New frontiers  
Di Nardo M (Italy)

08:30 - 08:45  The circuit of the future  
Annich G (Canada)

08:45 - 09:00  High-risk ECMO  
Stiller B (Germany)

09:00 - 09:15  Optimizing ECMO Circuitry - is newer better?  
Rosenthal T (USA)

09:15 - 09:30  Evaluation of combined ECLS and CRRT on hemodynamic performance and Gaseous Microemboli handling ability in a simulated neonatal patient  
Undar A (USA)

09:30 - 10:00  Discussion

10:00 - 10:45  Coffee+Posters+Exhibits

10:45 - 11:15  Keynote Lecture 3  
Neurodevelopment outcome after pediatric cardiac surgery  
Gaynor JW (USA)

11:15 - 11:45  Keynote Lecture 4  
Artificial Placenta  
Flake A (USA)

11:45 - 12:15  Keynote Lecture 5  
Preserve Pulmonary Valve Function in Congenital Heart Disease: Comparing a New Approach to Traditional Management.  
Bacha E (USA)
12:15 - 13:15  Lunch

13:15 - 15:15  Regular slide presentation on ECLS+CPBP (selection from Abstract)
Moderators: Perri G (Italy) - Iacobelli R (Italy) - Morelli S (Italy)

S1 (15 min): 10min+5min
S2 (15 min): 10min+5min
S3 (15 min): 10min+5min
S4 (15 min): 10min+5min
S5 (15 min): 10min+5min
S6 (15 min): 10min+5min
S7 (15 min): 10min+5min

15:15 - 15:45  Coffee+Posters+Exhibits

15:45 - 16:15  Keynote Lecture 4
Pediatric Excor Berlin Heart: USA Experience
Kroslowitz R (USA)

Practical Activities

16:15 - 17:45  ECLS/ECMO Simulations (at the Exhibit Hall)
Moderators: Di Nardo M (Italy) - Stoppa F (Italy) - La Salvia O (Italy)
Bravetti G (Italy)
(advanced registration is required: max 40 participants)

15:45 - 17:15  Hospital Tour (At Bambino Gesù Children Hospital)
(advanced registration is required: max 30 participants)
Tailoring the VAD setting by Hybrid Model: the clinical impact
(G. Ferrari, A. Di Molfetta)
(advanced registration is required: max 30 participants)

30th September 2017

8:00 - 10:15  Plenary Session 4
Experimental Approach to Pediatric Cardiovascular Medicine
Moderators: Ündar A (USA), A. Amodeo (Italy), Di Molfetta A (Italy)

8:00 - 8:15  Hemodynamic evaluation of VAD in isolated heart set up
Moscato F (Italy)

8:15 - 8:30  Animal Model for Pediatric MCS Research
Wilson RP (USA)
8:30 - 8:45  The Zebrafish model - approach to HLHS  
Hübler M (Switz)

8:45 - 9:00  TAH in failing Fontan. Can one ventricle be enough?  
Data from experimental study  
Tenderich G (Germany)

9:00 - 9:15  CorWave as new a concept in MCS  
Botterbusch C (France)

9:15 - 9:30  Device hemocompatibility: New Frontiers?  
Snyder T (USA)

9:30 - 9:45  The infant pump: clinical perspective  
Jarvik R (USA)

9:45 - 10:15  Discussion

10:15 - 10:45  Coffee+Posters+Exhibits

10:45 - 13:00  Regular slide presentation on BME (selection from Abstract)  
Moderators: Grigioni M (Italy) - Ferrari G. (Italy)

S1 (15 min): 10min+5min
S2 (15 min): 10min+5min
S3 (15 min): 10min+5min
S4 (15 min): 10min+5min
S5 (15 min): 10min+5min
S6 (15 min): 10min+5min
S7 (15 min): 10min+5min
S8 (15 min): 10min+5min
S9 (15 min): 10min+5min

13:00  Final Remarks  
Antonio Amodeo (Italy) - Akif Undar (USA)
Welcome to the 13th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. The overall objective of the conference is to bring together internationally recognized clinicians, bioengineers and basic scientists involved in research on pediatric mechanical circulatory support (MCS) system and pediatric cardiopulmonary bypass (CPB) physiology.

GENERAL INFORMATION

DATE AND VENUE:
28th-30th September 2017
Pontificia Università Urbaniana, Via Urbano VIII, 16 - 00165 Roma

REGISTRATION FEES:
EARLY REGISTRATION (ends June 30th, 2017 – fees will increase by € 100 after June 30th)
€500  –  MD’s – MScBME-MSc Eng -PhDs
€300  –  Perfusionists, Nurses
€100  –  Students, Fellows (local only)

LATE REGISTRATION (July 1st – September 27th, 2017)
€600  –  MD’s – MScBME-MSc Eng -PhDs
€400  –  Perfusionists, Nurses
€150  –  Students, Fellows (local only)

ON-SITE REGISTRATION (if space is available – September 28, 29, 30, 2017)
€650  –  MD’s – MScBME-MSc Eng -PhDs
€450  –  Perfusionists, Nurses
€200  –  Students, Fellows (local only)

Please note: Registration is limited and will be handled on a first-come, first-served basis.

ORGANIZING COMMITTEE
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CONGRESS WEBSITE:
http://www.pediatricmcsrome2017.it/

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