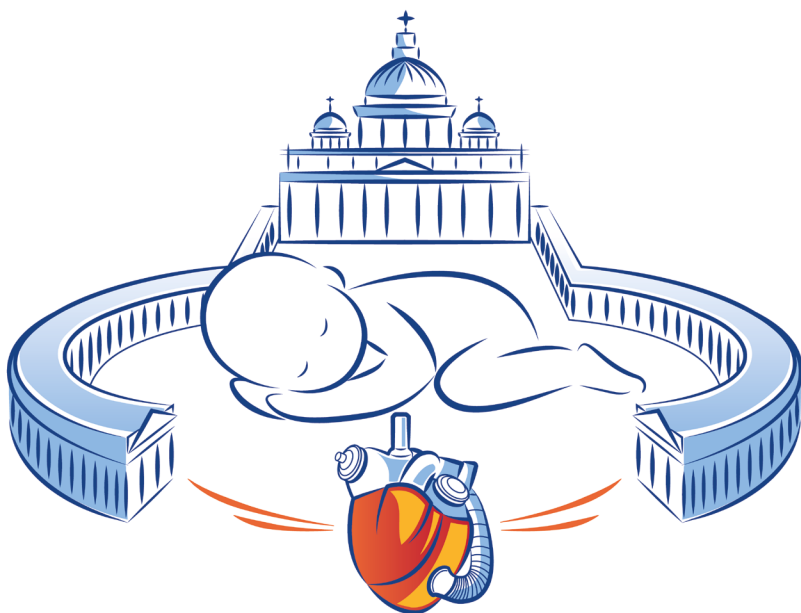


# THE 13th INTERNATIONAL CONFERENCE ON PEDIATRIC MECHANICAL CIRCULATORY SUPPORT SYSTEMS & PEDIATRIC CARDIOPULMONARY PERFUSION

28th-30th September 2017

Pontificia Università Urbaniana  
Via Urbano VIII, 16 - 00165 Roma



**PennState Health**  
Milton S. Hershey  
Medical Center



**Bambino Gesù**  
OSPEDALE PEDIATRICO

# GUIDELINES FOR CONFERENCE AWARDS

## YOUNG INVESTIGATOR AWARDS

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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

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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

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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.

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# PROGRAM CO-DIRECTORS

Antonio Amodeo, M.D.

Akif Ündar, PHD.

# ORGANIZING COMMITTEE

Rachele Adorasio

*Bambino Gesù Children's Hospital, Rome, Italy*

Luca Di Chiara

*Bambino Gesù Children's Hospital, Rome, Italy*

Arianna Di Molfetta

*Bambino Gesù Children's Hospital, Rome, Italy*

Matteo Di Nardo

*Bambino Gesù Children's Hospital, Rome, Italy*

Roberta Iacobelli

*Bambino Gesù Children's Hospital, Rome, Italy*

Francesca Iodice

*Bambino Gesù Children's Hospital, Rome, Italy*

Sergio Filippelli

*Bambino Gesù Children's Hospital, Rome, Italy*

Stefano Morelli

*Bambino Gesù Children's Hospital, Rome, Italy*

Gianluigi Perri

*Bambino Gesù Children's Hospital, Rome, Italy*

Giuseppina Testa

*Bambino Gesù Children's Hospital, Rome, Italy*

# SCIENTIFIC SECRETARY

Arianna Di Molfetta

*Bambino Gesù Children's Hospital, Rome, Italy*

Sergio Filippelli

*Bambino Gesù Children's Hospital, Rome, Italy*

Gianluigi Perri

*Bambino Gesù Children's Hospital, Rome, Italy*

# FACULTY

<b>Adachi Iki</b>	<i>Texas Children's Hospital, Houston, Texas</i>
<b>Adorisio Rachele</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Agati Salvatore</b>	<i>Bambino Gesù Children Hospital, San Vincenzo Hospital, Taormina, Italy</i>
<b>Amodeo Antonio</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Annich Gail</b>	<i>Hospital for Sick Children, Toronto, Canada</i>
<b>Asif Hasan</b>	<i>Freeman Hospital, Newcastle upon Tyne, England</i>
<b>Bacha Emile</b>	<i>Columbia University Medical Center, New York, USA</i>
<b>Blume Elizabeth</b>	<i>Boston Children's Hospital, Boston, USA</i>
<b>Botterbusch Carl</b>	<i>CTO, Corwave, Paris, France</i>
<b>Brancaccio Gianluca</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Bravetti Giulia</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Carotti Adriano</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
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<b>D'Amario Domenico</b>	<i>Catholic University of Sacred Heart, Rome, Italy</i>
<b>Di Chiara Luca</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Di Molfetta Arianna</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Di Nardo Matteo</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Filippelli Sergio</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Flake Alan</b>	<i>Center for Fetal Research, Children's Hospital of Philadelphia, Philadelphia, USA</i>
<b>Galletti Lorenzo</b>	<i>"Papa Giovanni XXIII" Hospital, Bergamo, Italy</i>
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<b>Hübler Michael</b>	<i>University Children's Hospital, Zurich, Switzerland</i>
<b>Iacobelli Roberta</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Iodice Francesca</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>
<b>Iorio Fiore Salvatore</b>	<i>Bambino Gesù Children Hospital, Rome, Italy</i>

<b>Jarvik Robert</b>	CEO, Jarvik Inc, New York, USA
<b>Kroslowitz Robert</b>	President and CEO Berlin Heart Inc., USA
<b>La Salvia Ondina</b>	Bambino Gesù Children Hospital, Rome, Italy
<b>Luciani Giovanni Battista</b>	University of Verona, Verona, Italy
<b>Massetti Massimo</b>	Catholic University of Sacred Heart, Rome, Italy
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<b>Morales David</b>	Cincinnati Children's Hospital Medical Center, Cincinnati, USA
<b>Morelli Stefano</b>	Bambino Gesù Children Hospital, Rome, Italy
<b>Moscato Francesco</b>	Center for Medical Physics and Biomedical Engineering, Vienna, Austria
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<b>Perri Gianluigi</b>	Bambino Gesù Children Hospital, Rome, Italy
<b>Pierce William</b>	Penn State University, Hershey, USA
<b>Rosenthal Tami</b>	Children's Hospital of Philadelphia, Philadelphia, USA
<b>Snyder Trevor</b>	Vice President VadoVations, Oklahoma City, USA
<b>Stiller Brigitte</b>	Heart Center, University of Freiburg, Freiburg, Germany
<b>Stoppa Francesca</b>	Bambino Gesù Children Hospital, Rome, Italy
<b>Tenderich Gero</b>	Heart and Vascular Center, Duisburg, Germany
<b>Trivella Maria Giovanna</b>	Institute of Clinical Physiology of the National Research Council, Rome and Pisa, Italy
<b>Ündar Akif</b>	Penn State University, Hershey, USA
<b>VanderPluym Christina</b>	Boston Children's Hospital, Boston, USA
<b>Wilson Ronald</b>	Penn State University, Hershey, USA

# SCIENTIFIC PROGRAM

## 28th September 2017

### 08:00 - 08:30 **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)*

### 08:30 - 10:45 **Plenary Session 1**

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**Pediatric Mechanical Circulatory Support System: 2017 Update**

**Moderators:** *Pierce W.(USA), Amodeo A (Rome), Massetti M. (Rome),*

*Gargiulo G. (Bologna)*

### 08:30 - 08:45 **MCS in pediatric: How does registry data translate to patients care (PediMACS)**

*VanderPluym CJ (USA)*

### 08:45 - 09:00 **MCS Hemocompatibility: A difficult Journey**

*Massicotte P (Canada)*

### 09:00 - 09:15 **Weaning from MCS in pediatric patients: Fiction or reality?**

*Miera O (Germany)*

### 09:15 - 09:30 **New approach in MCS for the Single Ventricle Failure**

*Adachi I (USA)*

### 09:30 - 09:45 **Early and Late MCS Post Transplantation: Which Devices?**

**Which Outcome?**

*Griselli M (Saudi Arabia)*

### 09:45 - 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 Vatican Museum**  
*Jatta B, Director Vatican Museum*

**14.30 - 15.30 Plenary Session 2**  

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**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:**  

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

16:00 - 16:10 **Cardiologist:** *Adorisio R (Italy)*

16:10 - 16:20 **Anesthetist:** *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**

# 29th September 2017

## 08:00 - 10:00 Plenary Session 3

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ECLS: Utilization, Management and Outcome

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

### 08:00 - 08:15 Unloading of LV 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

Anich 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

Úndar 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)

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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**  
*Kroschwitz R (USA)*

**16:15 - 17:30 Regular slide presentation on MCS (selection from Abstract)**  
**Moderators:** *Brancaccio G (Italy) - Agati S (Italy) - Costello JM (USA)*

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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

## **Practical Activities**

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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**

**08:00 - 10:15 Plenary Session 4**  
**Experimental Approach to Pediatric Cardiovascular Medicine**  
**Moderators:** *Ündar A (USA), A. Amodeo (Italy), Di Molfetta A (Italy)*

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08:00 - 08:15 **Hemodynamic evaluation of VAD in isolated heart set up**  
*Moscato F (Italy)*

08:15 - 08:30 **Animal Model for Pediatric MCS Research**  
*Wilson RP (USA)*

- 08:30 - 08:45 **The Zebrafish model - approach to HLHS**  
*Hübler M (Switz)*
- 08:45 - 09:00 **TAH in failing Fontan. Can one ventricle be enough?**  
**Data from experimental study**  
*Tenderich G (Germany)*
- 09:00 - 09:15 **CorWave as new a concept in MCS**  
*Botterbusch C (France)*
- 09:15 - 09:30 **Device hemocompatibility: New Frontiers?**  
*Snyder T (USA)*
- 09:30 - 09:45 **Preserving hearts from DCD donors using an ECMO type system**  
*Horton S (Australia)*
- 09:45 - 10:00 **The infant pump: clinical perspective**  
*Jarvik R (USA)*
- 10:00 - 10:30 **Discussion**
- 10:30 - 10:45 **Coffee+Posters+Exhibits**

**10:45 - 13:00 Regular slide presentation on BME (selection from Abstract)**

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**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

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### 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

Servizio Eventi Formativi ECM - Ospedale Pediatrico Bambino Gesù

P.zza S. Onofrio, 4 - 00165 Roma - Tel: 06/68592290-3768-3770

e-mail: congressi@opbg.net - <http://www.ospedalebambinogesu.it/>

### CONGRESS WEBSITE:

<http://www.pediatricmcrome2017.it/>

### CON IL PATROCINIO DELLA SICCH

