PVRI
Pulmonary Vascular Research Institute

Date // **29 January - 2 February 2020**

14th PVRI Annual World Congress

on Pulmonary Vascular Disease

Hotel // **The Swissotel • Lima • Peru**

WELCOME TO

LIMA • PERU

PVRI
Pulmonary Vascular Research Institute

Our Scientific Planning Committee welcomes you to **Lima**, Peru

Max Gassmann
- Chair
- Chairman, Institute of Veterinary Physiology, Vetsuisse Faculty and Zurich Center for Integrative Human Physiology, University of Zürich, Switzerland

Harm-Jan Bogaard
- Co Chair
- VU University Medical Centre, Netherlands

Elena Goncharova
- Division of Pulmonary, Allergy and Critical Care Medicine, Pittsburgh, USA

David Montani
- Hopitaux Universitaires, Paris-Sud, France

Zhenguo Zhai
- China-Japan Friendship Hospital, China

Paul Corris
- PVRI Chief Medical Scientific Officer
- University of Newcastle, UK

Scientific programme overseen by

Werner Seeger
- PVRI President 2020/21
- Justus-Liebig University Giessen, Germany

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Pre-Congress MEETINGS

Wednesday 29 January 2020

PVRI Board of Directors Meeting **09:00 - 17:00**
Chair: Paul Hassoun PVRI President 2018/19 JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, USA
and official handover to Werner Seeger, PVRI President 2020/21 JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

PVRI Task Force Meetings including the:

- Exercise Task Force **tbc**
- Imaging Task Force **tbc**
- Infection & Pulmonary Hypertension Task Force **08:30 - 17:30**

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Scientific Programme // Lima • Peru 2020

14th PVRI Annual World Congress

on Pulmonary Vascular Disease

Thursday 30 January 2020

WELCOME	**08:15 - 08:20**

Plenary 1

Moderators:
// Luis Efrén Santos-Martínez NATIONAL INSTITUTE OF CARDIOLOGY OF MEXICO, MEXICO
// Kurt Stenmark UNIVERSITY OF COLORADO, DENVER, USA

Hypoxia, mitochondria and metabolism - a dynamic triangle? **08:20 - 10:00**

Target audience: All

Objectives:
This session will provide current updates on molecular mechanisms underlying hypoxic signalling, cellular metabolism and mitochondrial alterations in PH and RV dysfunction. This session will also address potential therapeutic implications of targeting mitochondrial and metabolic alterations, with directions for future research and translational focus.

Physiological and mitochondrial features that lead to a successful acclimatization to hypoxia // Jorge Soliz LAVAL UNIVERSITY, CANADA	08:20 - 08:37
Discussion	08:37 - 08:45
Metabolic mechanisms in PAH // Samar Farha CLEVELAND CLINIC ABU DHABI, UNITED ARAB EMIRATES	08:45 - 09:02
Discussion	09:02 - 09:10
ROS signalling in smoke-induced pulmonary hypertension and emphysema // Natascha Sommer JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY	09:10 - 09:27
Discussion	09:27 - 09:35
Best abstract presentation // To be announced	09:35 - 09:52
Discussion	09:52 - 10:00
BREAK	**10:00 - 10:30**

Plenary 2

Moderators:
// Roberto Accinelli UNIVERSIDAD PERUANA CAYETANO HEREDIA, PERU
// Aaron Waxman BRIGHAM AND WOMEN'S HOSPITAL, HARVARD MEDICAL SCHOOL, USA

Lessons from high altitude for pulmonary hypertension — 10:30 - 12:30

Target audience: All

Objectives:
Lessons from the naturally occurring hypoxic environment taking place at high altitude to reduce oxygenation at sea level, with special focus on the lung. Overall, humans are not designed to live at high altitudes and thus, evolution has come up with different strategies on how to adapt and reduce oxygenation. These mechanisms are different among the human population, e.g. South Americans adapt differently from the Himalayans. Accordingly, the pathologies are different between the ethnicities, and different lessons are to be learned for PH in general.

Haemoglobin levels from low to high altitude in different ethnologies // Max Gassmann VETSUISSE - FACULTY UNIVERSITY OF ZURICH, SWITZERLAND	10:30 - 10:47
Discussion	10:47 - 10:55
Chronic mountain sickness and PH // Francisco Villafuerte UNIVERSIDAD PERUANA CAYETANO HEREDIA, PERU	10:55 - 11:12
Discussion	11:12 - 11:20
The molecular biology of the hypoxic lung // Heimo Mairbäurl UNIVERSITY OF HEIDELBERG, GERMANY	11:20 - 11:37
Discussion	11:37 - 11:45
High altitude pulmonary oedema: Mechanisms and insight from MRI imaging // Sue Hopkins UNIVERSITY OF CALIFORNIA SAN DIEGO, USA	11:45 - 12:02
Discussion	12:02 - 12:10
Best abstract presentation // To be announced	12:10 - 12:22
Discussion	12:22 - 12:30

Pulmonary Circulation Editorial Board Meeting — 12:30 - 13:30

LUNCH — 12:30 - 13:30

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SHEILA GLENNIS HAWORTH LECTURE: 13:30 - 14:10

Mechanistic links between iron deficiency and pulmonary arterial hypertension

Moderator // Max Gassmann VETSUISSE - FACULTY UNIVERSITY OF ZURICH, SWITZERLAND
Speaker // Samira Lakhal-Littleton UNIVERSITY OF OXFORD, UK
30 minutes talk plus 10 minutes discussion

Pro-con debate session 14:10 - 15:30

Optimised risk assessment, non-invasive imaging and CPET will substitute right heart catherisation in PH

Moderators:
// Harm-Jan Bogaard VU UNIVERSITY MEDICAL CENTRE, THE NETHERLANDS
// Vallerie McLaughlin UNIVERSITY OF MICHIGAN, USA

Pro // Raymond Benza TEMPLE UNIVERSITY SCHOOL OF MEDICINE, USA	14:10 - 14:25
Con // Aaron Waxman BRIGHAM AND WOMEN'S HOSPITAL, HARVARD MEDICAL SCHOOL, USA	14:25 - 14:40
Pro Rebuttal // Raymond Benza	14:40 - 14:45
Con Rebuttal // Aaron Waxman	14:45 - 14:50

TGFß signalling plays a crucial role in PH independent of BMPR2

Moderators:
// Marie-José Goumans LEIDEN UNIVERSITY, THE NETHERLANDS
// Martin Wilkins IMPERIAL COLLEGE LONDON, UK

Pro // Brian Graham UNIVERSITY OF COLORADO, USA	14:50 - 15:05
Con // Nick Morrell UNIVERSITY OF CAMBRIDGE, UK	15:05 - 15:20
Pro Rebuttal // Brian Graham	15:20 - 15:25
Con Rebuttal // Nick Morrell	15:25 - 15:30

BREAK **15:30 - 16:00**

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Plenary 3

Moderators:
// Gérald Simonneau HÔPITAUX UNIVERSITAIRES PARIS-SUD, FRANCE
// Rogerio Souza UNIVERSITY OF SAO PAULO, BRAZIL

PVOD and PCH - orphan of the orphans, or just a common trait in some forms of PAH? 16:00 - 18:00

Target audience: Clinicians, biologists, geneticists & pathologists

Objectives:
A comprehensive session to include different disciplines and provide a needed rescaling of the understanding of PVOD, after changes were made in the diagnostic classification at the World Symposium on PH in 2018. The session will cover what is known, what is new, and how scientific understanding, diagnostic approach and medical treatment of the disease can be optimised on consensus within the PH community.

Pulmonary veno-occlusive disease or PAH with predominant venous remodelling: The pathologist's view // Peter Dorfmüller UNIVERSITY OF GIESSEN AND MARBURG LUNG CENTER, GERMANY	16:00 - 16:17
Discussion	16:17 - 16:25
Genetic and molecular mechanisms of pulmonary venous remodelling // Frédéric Perros INSERM UMR_S999, UNIVERSITÉ PARIS-SACLAY, FRANCE	16:25 - 16:42
Discussion	16:42 - 16:50
Relevance of the Apelin receptor in PH: PVOD, PAH, or both? // Patricia Thistlethwaite UNIVERSITY OF CALIFORNIA SAN DIEGO, USA	16:50 - 17:07
Discussion	17:07 - 17:15
Characterising and phenotyping patients with sporadic and heritable PVOD // David Montani INSERM UMR_S 999, HÔPITAL DE BICÊTRE, ASSISTANCE PUBLIQUE HÔPITAUX DE PARIS, FRANCE	17:15 - 17:32
Discussion	17:32 - 17:40
Best abstract presentation // To be announced	17:40 - 17:52
Discussion	17:52 - 18:00

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Please stay on for our AGM

and hear about all the exciting opportunities planned for 2020 and beyond!

PVRI Annual General Meeting — 18:00 - 19:15

Including: // Launch of the PVRI Digital Clinic (12 patient cases)
// PVRI Dinosaur Trust Sponsored Research Grants

Welcome — 18:00 - 18:05
// Paul Hassoun PVRI PRESIDENT 2018/19, JOHN HOPKINS UNIVERSITY USA

Overview of the year 2019 — 18:05 - 18:20
// Stephanie Barwick PVRI CEO

PVRI Digital Clinic 12 patient cases — 18:20 - 18:35
// Martin Johnson UNIVERSITY OF GLASGOW, UK
// Colin Church UNIVERSITY OF GLASGOW, UK
// Aaron Shefras PVRI MARKETING MANAGER

The Dinosaur Trust sponsored Research Grant — 18:35 - 18:40
// Sébastien Bonnet LAVAL UNIVERSITY, CANADA
// Frédéric Perros INSERM, UNIVERSITÉ PARIS SUD, FRANCE

The Dinosaur Trust sponsored Research Grant — 18:40 - 18:45
// Hyung Chun YALE UNIVERSITY, USA

PVRI Research Grant — 18:45 - 18:50
// Presented by Paul Corris on behalf of Lucilla Piccari HOSPITAL DEL MAR, SPAIN

PVRI goals 2020/21 & Global Registry Initiative — 18:50 - 19:15
// Werner Seeger PVRI PRESIDENT 2020/21, JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

Welcome & Networking Reception — 19:15 - 21:00

END OF DAY 1 SCIENTIFIC SESSIONS

Friday 31 January 2020

PVRI Innovative Drug Development Initiative breakfast meeting for members of the IDDI Working Group **06:30-07:45**

Plenary 4

Moderators:
// Gabriel Diaz UNIVERSIDAD NACIONAL DE COLOMBIA, COLOMBIA
// Soni Savai-Pullamsetti MAX-PLANCK-INSTITUTE FOR HEART AND LUNG RESEARCH, GERMANY

PH in neonates and children development **08:00 - 10:00**

Target audience: All

Objectives:
Interdependency between lung disease and PH from neonates to children - does this have impact on adult life? How to optimally treat newborns and children, and what are the trajectories for adult life?

Lung vascular changes in bronchopulmonary dysplasia // Anne Hilgendorff LUDWIG-MAXIMILLIANS-UNIVERSITÄT MÜNCHEN, GERMANY	08:00 - 08:17
Discussion	08:17 - 08:25
Perivascular cells: The culprit in pediatric pulmonary hypertension and potential target for therapy // Robbert Rottier ERASMUS UNIVERSITY MEDICAL CENTER, THE NETHERLANDS	08:25 - 08:42
Discussion	08:42 - 08:50
Some neonates say no to NO. We are looking for YES drugs for treating the pulmonary hypertension of the newborn. // Anibal Llanos UNIVERSITY OF CHILE, CHILE	08:50 - 09:07
Discussion	19:07 - 19:15
Trajectory of PH in newborns: persistence in childhood, recurrence in adulthood // Sheila Glennis Haworth GREAT ORMOND STREET CHILDREN'S HOSPITAL LONDON, UK	09:15 - 09:32
Discussion	09:32 - 09:40
Best abstract presentation // To be announced	09:40 - 09:52
Discussion	09:52 - 10:00

BREAK **10:00 - 10:30**

STUART RICH LECTURE: **10:30 - 11:10**
Gene editing - ready for translation into clinical medicine
Moderator // Roham Zamanian STANFORD UNIVERSITY, USA
Speaker // Mark Geraci UNIVERSITY OF COLORADO DENVER, USA
30 minutes talk plus 10 minutes discussion

Paediatric & Congenital Heart Disease Task Force meeting **11:15 - 16:00**

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Rapid fire poster presentation (6 selected posters) **11:10 - 11:40**

3 minutes presentation plus 2 minutes discussion for each poster, mixed clinical plus basic

Moderators:
// Tim Lahm MEDICAL CENTER INDIANAPOLIS, USA
// Anna Hemnes VANDERBILT UNIVERSITY MEDICAL CENTER, USA

Moderated poster session 1 **11:40 - 13:00**

80 minutes

Moderators:
// Vallerie McLaughlin // Raymond Benza // Nick Morrell // Martin Wilkins // Christophe Guignabert // Vinicio de Jesus Perez // Gaurav Choudhary // Patricia Thislethwaite // Brian Graham // Rogerio Souza // Kurt Stenmark

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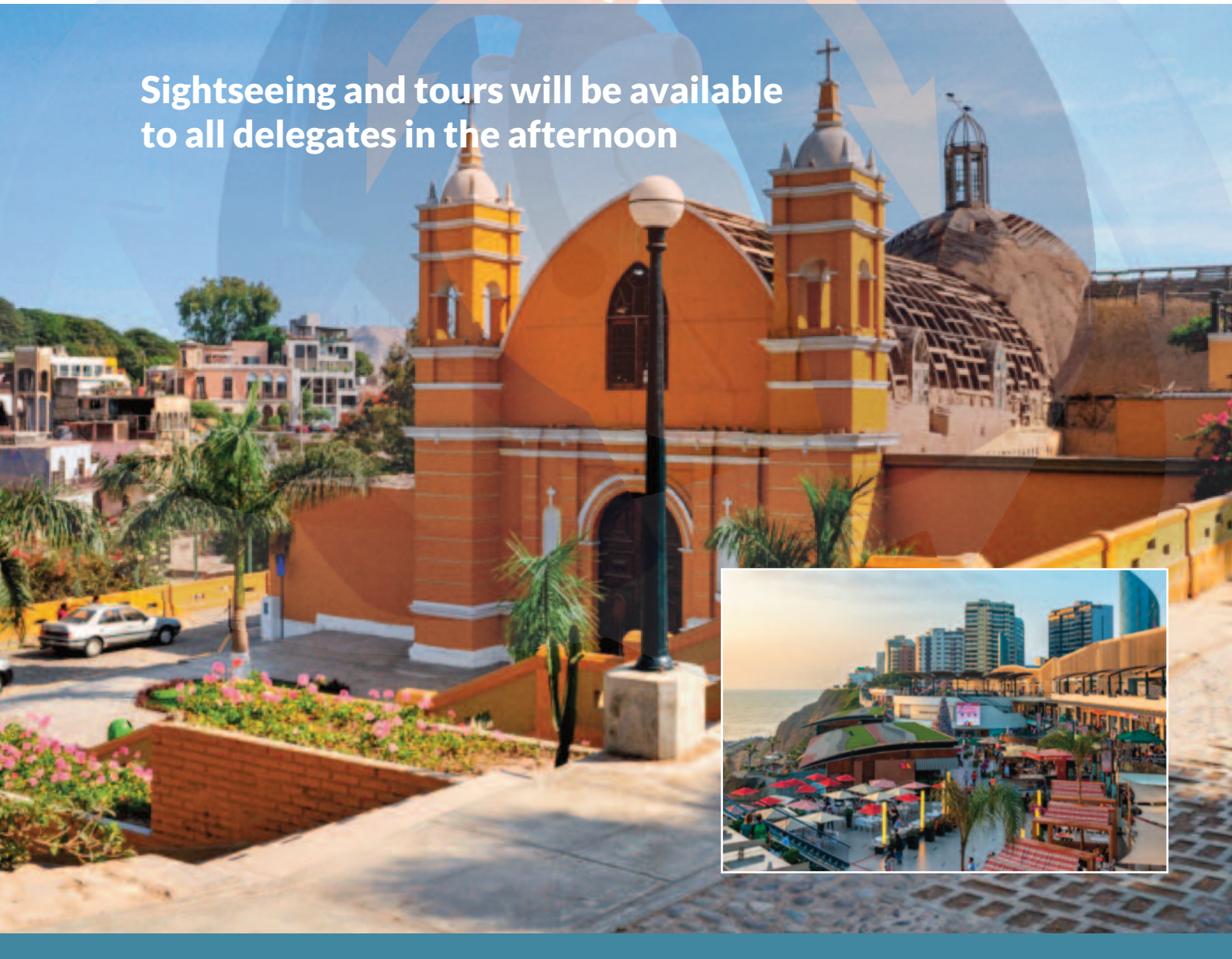
LUNCH **13:00**

END OF DAY TWO SCIENTIFIC SESSIONS



Saturday 1 February 2020

Plenary 5

Moderators:
// Ardeschir Ghofrani JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY
// Mark Gladwin UNIVERSITY OF PITTSBURGH MEDICAL CENTRE, USA

Targeting growth suppressors in PH: current progress and therapeutic prospects **08:00 - 10:00**

Target audience: All

Objectives:
Learning from cancer, paving the avenue to true "reverse remodelling" therapy. Different strategies to achieve one common goal, the restoration of normal lung vascular architecture.

FoxO re-activation and and beyond – the epigenetic treatment arsenal // Soni Savai-Pullamsetti MAX-PLANCK-INSTITUTE FOR HEART AND LUNG RESEARCH, GERMANY	08:00 - 08:17
Discussion	08:17 - 08:25
GATA6 deficiency as a molecular target for PAH // Maria Trojanowska BOSTON UNIVERSITY, USA	08:25 - 08:42
Discussion	08:42 - 08:50
TSC2: New molecular target for therapeutic intervention in PAH // Elena Goncharova UNIVERSITY OF PITTSBURGH, USA	08:50 - 09:07
Discussion	09:07 - 09:15
Cyclin-dependent kinase inhibition as new treatment concept in PH // Ralph Schermuly UNIVERSITY OF GIESSEN AND MARBURG LUNG CENTER, GERMANY	09:15 - 09:32
Discussion	09:32 - 09:40
Best abstract presentation // To be announced	09:40 - 09:52
Discussion	09:52 - 10:00

BREAK **10:00 - 10:30**

Plenary 6

Moderators:
// Paul Corris NEWCASTLE UNIVERSITY, UK
// Stuart Rich NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE, USA

The global burden of PH - Time to engage with global health — 10:30 - 12:30

Target audience: All

Objectives:
PH to be addressed from a global perspective. Engagement of the PVRI in global health organisations: The PVRI has a major focus on raising the profile of PH to a global audience as part of our strategy over next 5 years and we are engaged with the WHF, WHO, NCDA and the UN.

PH in Latin America

A) Management of the RELAHP II Registry // Luis Efrén Santos-Martínez NATIONAL INSTITUTE OF CARDIOLOGY OF MEXICO, MEXICO	10:30 - 10:40
B) RELAHP II Registry. Preliminary data // Ricardo Adrián Gómez Tejada UNIVERSITY OF BUENOS AIRES, ARGENTINA	10:40 - 10:50
Discussion	10:50 - 11:00
ECHO based worldwide screening for PH // Geoff Strange UNIVERSITY OF NOTRE DAME | FCSAN, AUSTRALIA	11:00 - 11:17
Discussion	11:17 - 11:25
Challenges in establishing centres of cardiology excellence in the developing world // Mark Huffman NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE, USA	11:25 - 11:42
Discussion	11:42 - 11:50
Modelling the global burden of disease. Current progress in PH // Sophia Emmons-Bell INSTITUTE FOR HEALTH METRICS AND EVALUATION SEATTLE, USA	11:50 - 12:05
Discussion	12:05 - 12:13
Best abstract presentation // To be announced	12:13 - 12:25
Discussion	12:25 - 12:30

LUNCH — **12:30 - 13:30**

Plenary 7

Moderators:
// Werner Seeger JUSTIUS-LEIBIG UNIVERSITY GIESSEN, GERMANY
// Bradley Maron BRIGHAM AND WOMEN'S HOSPITAL, HARVARD MEDICAL SCHOOL, USA

The right ventricle - forgotten no more — 13:30 - 15:30

Target audience: Clinicians, radiologists, basic scientists

Objectives:
To discuss the current methods to assess the function of the right ventricle and its impact on prognosis in pulmonary hypertension. Furthermore, the session aims to cast light on current measures of the RV-PA-Unit and to critically reflect its clinical relevance in comparison to conventional parameters of RV function. Additionally, new and well-known therapeutic approaches of RV failure will be discussed.

Methods to assess RV contractility and diastolic stiffness. From gold-standard PV-loops to surrogates. // Khodr Tello UNIVERSITY HOSPITAL OF GIESSEN AND MARBURG, GERMANY	13:30 - 13:47
Discussion	13:47 - 13:55
Right ventricular fibrosis and right ventricular function in pulmonary hypertension // Gaurav Choudhary PROVIDENCE MEDICAL CENTER, USA	13:55 - 14:12
Discussion	14:12 - 14:20
Oestrogens and RV failure in PAH // Tim Lahm MEDICAL CENTER INDIANAPOLIS, USA	14:20 - 14:37
Discussion	14:37 - 14:45
Right ventricular failure - new therapeutic avenue/approaches // Rebecca Vanderpool UNIVERSITY OF ARIZONA COLLEGE OF MEDICINE, USA	14:45 - 15:02
Discussion	15:02 - 15:10
Best abstract presentation // To be announced	15:10 - 15:22
Discussion	15:22 - 15:30

BREAK — **15:30 - 15:45**

Rapid fire poster presentation (6 selected posters) — 15:45 - 16:15

3 minutes presentation plus 2 minutes discussion for each poster, mixed clinical plus basic

// Ralph Schermuly UNIVERSITY OF GIESSEN AND MARBURG LUNG CENTER, GERMANY
// Marco Guazzi IRCCS POLICLINICO SAN DONATO, UNIVERSITY OF MILANO, ITALY

Moderated poster session 2 — 16:15 - 17:15

60 minutes

Moderators:
// David Montani // Bradley Maron // Nick Morrell // Ekkehard Grünig // Christophe Guignabert
// Vinicio de Jesus Perez // Gaurav Choudhary // Tim Lahm // Brian Graham // Elena Goncharova
// Rogerio Souza // Kurt Stenmark

Plenary 8

Moderators:
// George Giannakoulas AHEPA UNIVERSITY GENERAL HOSPITAL ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE
// Ryan Tedford MEDICAL UNIVERSITY OF SOUTH CAROLINA, USA

This is a joint session with the ESC Working Group on Pulmonary Circulation and Right Ventricular Function **17:15 - 18:55**

PH and HFpEF - driving forces, ventricular interplay and therapeutic options

Target audience: All

Objectives:
To discuss the current knowledge on the mechanisms involved in the development of pulmonary hypertension and their impact on prognosis in heart failure with preserved ejection fraction (HFpEF). Furthermore, the session will handle measures of the RV/PA unit in this context under resting conditions and during exercise, highlighting RV dysfunction even at early stages of HFpEF. Finally, the potential role of established PH targeted therapies, as well as new approaches to improve PH and RV function in HFpEF will be discussed, focusing on specific haemodynamic phenotypes.

Driving forces of PH in heart failure with preserved ejection fraction - what can we learn from animal models? // Mark Gladwin UNIVERSITY OF PITTSBURGH MEDICAL CENTRE, USA	17:15 - 17:32
Discussion	17:32 - 17:40
Driving forces of PH in heart failure with preserved ejection fraction - what is established in humans? // Marco Guazzi IRCCS POLICLINICO SAN DONATO, UNIVERSITY OF MILANO, ITALY	17:40 - 17:57
Discussion	17:57 - 18:05
The right ventricle in HFpEF – RV/PA coupling at rest and during exercise. // Ryan Tedford MEDICAL UNIVERSITY OF SOUTH CAROLINA, USA	18:05 - 18:22
Discussion	18:22 - 18:30
Is there a role for PH targeted therapies in HFpEF? Haemodynamic phenotypes and therapeutic responses // Stephan Rosenkranz UNIVERSITY OF COLOGNE, GERMANY	18:30 - 18:47
Discussion	18:47 - 18:55

END OF DAY THREE SCIENTIFIC SESSIONS

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PVRI Gala Dinner with salsa music

Saturday 1 February 2020 **19:30 onwards**

(All welcome, including partners & guests)
Buy your ticket at the Reception Desk

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Sunday 2 February 2020

GHAZWAN BUTROUS LECTURE: **08:00 - 08:40**
The global burden of cardiovascular diseases. What do we know about heart failure and pulmonary hypertension?
Moderator // Paul Corris UNIVERSITY OF NEWCASTLE, UK
Speaker // Greg Roth UNIVERSITY OF WASHINGTON, USA
30 minutes talk plus 10 minutes discussion

MEMBER OF WORLD HEART FEDERATION

Member of NCDAlliance

Plenary 9

Moderators:
// Stephan Chan UNIVERSITY OF PITTSBURGH MEDICAL CENTER, USA
// Anton Vonk Noordegraaf DEPARTMENT OF PULMONARY DISEASES, VU UNIVERSITY MEDICAL CENTER, THE NETHERLANDS

Imaging in PH - from rodents to men - new insights from new technologies? **08:40 - 10:40**

Target audience: Basic scientists, clinicians, physiologists, radiologists.

Objectives:
To discuss the methods and approaches for non-invasive evaluation of the right ventricular and lung function/morphology. This includes pre-clinical, translational, and clinical research on novel imaging methodologies, imaging biomarkers and probes, as well as new molecular imaging applications in diagnoses and prognoses of experimental and human pulmonary hypertension. The session will provide a platform for knowledge exchange covering basic sciences, translational aspects, as well as clinical applications.

Imaging biomarkers in experimental PH // Baktybek Kojonazarov UNIVERSITY HOSPITAL OF GIESSEN AND MARBURG, GERMANY	08:40 - 08:57
Discussion	08:57 - 09:05
Artificial intelligence to make more of clinical technologies for cardiac imaging // Declan O'Regan MRC LONDON INSTITUTE OF MEDICAL SCIENCES, IMPERIAL COLLEGE LONDON, UK	09:05 - 09:22
Discussion	09:22 - 09:30
Right ventricle and lung 18FLT and 18FDG PET in experimental and human PH // Lan Zhao IMPERIAL COLLEGE LONDON, UK	09:30 - 09:47
Discussion	09:47 - 09:55
Ventricular mass as a prognostic imaging biomarker in incident PAH // Paul Hassoun JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, USA	09:55 - 10:12
Discussion	10:12 - 10:20
Best abstract presentation // To be announced	10:20 - 10:32
Discussion	10:32 - 10:40

BREAK **10:40 - 11:10**

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Plenary 10

Moderators:
// James Klinger BROWN UNIVERSITY, USA
// Sébastien Bonnet UNIVERSITÉ LAVAL, CANADA

RNA therapeutics in PH - fact, future or fantasy? **11:10 - 13:10**

Target audience: All

Objectives:
Advances in RNA-sequencing techniques have led to the discovery of thousands of non-coding transcripts with unknown functions. There are several types of non-coding linear RNAs, such as microRNAs (miRNA) and long non-coding RNAs (lncRNA), as well as circular RNAs (circRNA) consisting of a closed continuous loop. Among these types, lncRNAs have emerged as critical regulators of gene expression in both normal and diseased states. This session will highlight current knowledge of the function of lncRNAs in pulmonary hypertension and right ventricle (RV) hypertrophy and failure. This session will also address potential therapeutic implications and the challenges of lncRNA research, with directions for future research and translational focus.

Network analysis of the expanding RNA landscape in PH // Stephen Chan UNIVERSITY OF PITTSBURGH MEDICAL CENTER, USA	11:10 - 11:27
Discussion	11:27 - 11:35
Role of LnRNA in pulmonary hypertension and RV failure // Sébastien Bonnet UNIVERSITY LAVAL, CANADA	11:35 - 11:52
Discussion	11:52 - 12:00
RNA-mediated regulation of BMPR2 in heritable and idiopathic pulmonary arterial hypertension // James West VANDERBILT CHILDREN'S NASHVILLE, USA	12:00 - 12:17
Discussion	12:17 - 12:25
Right ventricular long non-coding RNA expression in human heart failure // Anna Hemnes VANDERBILT UNIVERSITY MEDICAL CENTER, USA	12:25 - 12:42
Discussion	12:42 - 12:50
Best abstract presentation // To be announced	12:50 - 13:02
Discussion	13:02 - 13:10

CLOSING REMARKS **13:10 - 13:30**

END OF CONGRESS

Following on immediately after the PVRI Congress!

Date // **2 -3 February 2020**

2nd International Consortium for Genetic Studies in PAH

Hotel // **The Swissotel • Lima • Peru**

We are pleased to announce that the second scientific meeting of the International Consortium for Genetic Studies in PAH (PAH-ICON http://www.pahicon.com) will be held in Lima, sponsored by the PVRI.

The meeting immediately follows the PVRI 14th Annual World Congress and will be held at the same venue.

The meeting will include presentations and abstracts from researchers in the field of PAH genetics, and will provide an opportunity for collaborative networking and participating in future international collaborations in this rapidly evolving field.

For further information go to **www.pvrinstitute.org**

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