



PVRI 2025 Rio Annual Congress

29 January - 1 February 2025

Embracing Heterogeneity

Windsor Convention & Expo Centre, R. Martinho de Mesquita, 129 - Barra da Tijuca Rio de Janeiro - RJ, 20031-204

SESSION 1: Establishing the framework for the classification & diagnosis of PH worldwide

Moderators: Katarina Zeder, Lindsay Forbes, Olivier Sitbon (TBC)

- 08:00-08:05 PVRI President's welcome
Anna Hemnes
- 08:05-08:20 PH care in Brazil
Rogerio Souza
- 08:20-08:35 Classification & diagnosis of PH: Updates from the 7th WSPH
Gabor Kovacs
- 08:35-08:50 Omics-based & data-driven approaches to early disease diagnosis
Catherine Simpson
- 08:50-08:57 **Basic/translational abstract**
Speaker TBC
- 08:57-09:12 CIPHER & CIPHER-MRI studies for early diagnosis of PH
Ioana Preston
- 09:12-09:27 Advanced medical imaging & AI in PH diagnosis & classification
Andy Swift

09:27-09:57 Refreshment break

Moderators: Tatiana Kudryashova, Gustavo Heresi (TBC), Tim Lahm

- 09:57-10:12 Cardiopulmonary exercise testing in the diagnosis & phenotyping of PH patients
Khodr Tello
- 10:12-10:27 Classification & diagnosis of pediatric PH: Updates from the 7th WSPH
Dunbar Ivy
- 10:27-10:35 **Basic/translational abstract**
Speaker TBC
- 10:35-10:50 CTEPH & CTED approach to early diagnosis & treatment
Mark Toshner
- 10:50-11:05 How pre-clinical models can be used to improve clinical phenotyping & early diagnosis
Vineet Agrawal

11:05-13:00 Lunch break, Barra Restaurant

11:05-13:00 Career Catalyst Luncheon

SESSION 2: Risk stratification & treatment in the new era of PH therapeutics

Moderators: Pilar Ruiz Lozano, Sue Gue, Sandeep Sahay

- 13:00-13:15 Developments in risk stratification scores in PH
Athenais Boucly (TBC)
- 13:15-13:30 RV phenotyping in PH risk stratification & treatment
Tim Lahm
- 13:30-13:37 **Basic/translational abstract**
Speaker TBC
- 13:37-13:52 The impact of novel therapeutics on the treatment algorithm of PH
Sandeep Sahay
- 13:52-14:07 Surgical Interventions, mechanical support, & transplant in end-stage PH
Nayeli Zayas

14:07-14:37 Refreshment break

Moderators: Corey Ventetuolo, Athiththan Yogeswaran, Horst Olschewski

- 14:37-14:52 Approach to the treatment of Group 1 PH patients with co-morbidities
Anna Hemnes
- 14:52-15:07 Risk stratification & treatment of pediatric PH
Rolf Berger
- 15:07-15:15 **Basic/translational abstract**
Speaker TBC
- 15:15-15:30 Medical & surgical management of CTED & CTEPH
Hiromi Matsubara
- 15:30-16:00 Panel dicussion: Realities & challenges of applying PH guidelines for diagnosis & treatment in LMIC
Facilitators: Vinicio de Jesus Perez, Werner Seeger, Ana Mocumbi, Gerald Maarman, Mauricio Orozco Levi (TBC)

16:00-18:00 Poster presentations

18:00-19:30 Drinks Reception

**Thursday
30 January**
Windsor Oceanico,
Asia, 3rd Floor

SESSION 3: Vascular heterogeneity in chronic lung disease

Moderators: Grazyna Kwapiszewska, Shelsey Johnson

- 08:00-08:05 Introduction
Grazyna Kwapiszewska
- 08:05-08:20 Clinical aspects of PH heterogeneity in chronic lung disease: Same as PAH or different?
TBC
- 08:20-08:35 Translational investigations of PH in fibrotic lung disease models
Andrew Bryant
- 08:35-08:50 Translational investigations of PH in COPD disease models
Natascha Sommer
- 08:50-08:57 Abstract
Speaker TBC
- 08:57-09:05 Abstract
Speaker TBC

09:05-09:20 Panel discussion: Comparison of vascular changes in CLD & PAH

09:20-09:50 Refreshment break

Moderators: David Kiely, Mona Lichtblau

- 09:50-09:55 Introduction
David Kiely
- 09:55-10:10 Vasculature in CLD: Imaging insights
Nick Rahaghi
- 10:10-10:25 Pulmonary vascular heterogeneity: Insights from contemporary pathological approaches
Rubin Tudor
- 10:25-10:40 Vascular changes in pediatric chronic lung disease
Steven Abman
- 10:40-10:47 Abstract
Speaker TBC
- 10:47-10:55 Abstract
Speaker TBC
- 10:55-11:10 Panel discussion: Should we target vascular changes in chronic lung disease?

11:10-13:00 Lunch break, Barra Restaurant

11:10-13:00 Women in PH Luncheon

SESSION 4: Heterogeneity in PH associated with heart disease

Moderators: Nidhy Varghese, TBC

- 13:00-13:05 Introduction
Nidhy Varghese
- 13:05-13:20 How do HFrEF & HFpEF affect the pulmonary vasculature & how can we model it?
Charly Lai
- 13:20-13:35 Congenital heart disease & the pulmonary vasculature
Speaker TBC
- 13:35-13:42 Abstract
Speaker TBC
- 13:42-13:50 Abstract
Speaker TBC
- 13:50-14:05 Animal models of heart disease PH
Wolfgang Kübler
- 14:05-14:20 Effect of pre and post-tricuspid shunts on the pulmonary vasculature
Rachel Hopper

14:20-14:50 Refreshment break

Moderators: Harm Jan Bogaard, Andrea Frump (TBC), Philipp Douschan

- 14:50-14:55 Introduction
Harm Jan Bogaard
- 14:55-15:10 How can we study the right ventricle to develop novel therapies?
Edda Spiekerkoetter
- 15:10-15:25 Advances in imaging RV function in humans & animal models with PH
Rebecca Vanderpool
- 15:25-15:32 Abstract
Speaker TBC
- 15:32-15:40 Abstract
Speaker TBC
- 15:40-15:55 Cellular heterogeneity in RV dysfunction
Soni Savai-Pullamsetti
- 15:55-16:10 Managing RV dysfunction in resource-limited settings
Prashant Bobhate
- 16:10-16:30 Panel discussion

16:30-18:00 Poster presentations

19:00-23:59 Gala Dinner & Award Presentations

**Friday
31 January**
Windsor Oceanico,
Asia, 3rd Floor

SESSION 5: The individual exposome & its contribution to PH heterogeneity

Moderators: Lan Zhao, Navneet Dhillon

- 08:00-08:15 Drug exposures and PH
Vinicio de Jesus Perez
- 08:15-08:30 Infectious exposures & pulmonary vascular disease
Rudolf Oliveira
- 08:30-08:45 High altitude exposure and PH
Silvia Ulrich
- 08:45-09:00 Early life exposures and pulmonary vascular disease
Kara Goss
- 09:00-09:15 The Microbiome in PH
Sasha Prisco

09:15-09:45 Refreshment break

Moderators: Flavia Navarro, Luke Howard

- 09:45-10:00 Less considered exposures that contribute to PH
Stephen Chan
- 10:00-10:15 Real world activity and exercise perception in PH patients - MyHeart Counts
Niamh Errington
- 10:15-10:30 Insights from All of Us/EHR
Evan Brittain
- 10:30-10:37 Abstract
Speaker TBC
- 10:38-10:45 Abstract
Speaker TBC
- 10:45-11:00 Exposome as a modifiable factor for PH management
Bradley Maron

11:00-12:45 Lunch break, Barra Restaurant

11:00-12:00 Hot topics from PVRI GoDeep meeting

SESSION 6: Quantifying therapeutic responses

Moderators: Patricia Thistlethwaite, Andy Sweatt, Steeve Provencher

- 12:45-13:00 How should we define disease modification?
Roham Zamanian
- 13:00-13:15 Developing imaging surrogates of vascular histology to quantify reverse remodeling
Karin Tran Lundmark
- 13:15-13:23 Abstract - Digital endpoints & monitoring
Speaker TBC
- 13:23-13:30 Abstract - Molecular classification
Speaker TBC
- 13:30-13:45 Patient reported outcomes - A joint talk with PVRI and PHA USA
Frances Varian

13:45-14:15 Refreshment break

SESSION 7: Leveraging disease heterogeneity in clinical trial design

Moderators: Jude Moutchia, Jane Leopold, Navneet Singh

- 14:15-14:30 What is a platform trial?
Charlotte Summers
- 14:30-14:45 Global perspective & digital trials
Otavio Berwanger (TBC)
- 14:45-15:00 Update in pediatric clinical trials
Maria Jesus del Cerro

Dragon's Den / Shark Tank

Dragons/Sharks: Irene Lang, Olivier Sitbon (TBC), Ardeshir Ghofrani, Charlotte Summers

- 15:00-15:05 Dragon Den introduction
Martin Wilkins
- 15:05-15:20 PHoenix trial (Rationalising current treatments using implanted devices)
Alex Rothman
- 15:20-15:35 Stratosphere Bayesian trial for BMPR2 mutation carriers
Sofia Villar
- 15:35-15:50 CRAVE: Canadian Right ventricular Adaptive platform trial
Jason Weatherald
- 15:50-16:00 Summary
Martin Wilkins

- 16:00-16:15 Building and testing a personal digital twin for PH
Steve Niederer

**Saturday
1 February**
Windsor Oceanico,
Asia, 3rd Floor

