

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

Programme overview

Pre-congress satellite meetings, Windsor Oceanico, 2nd Floor

Wednesday, 29 January

Innovative Drug Development Initiative (IDDI) Meeting, Oceania IX
Infection in Pulmonary Vascular Disease (iPVD) Consortium Meeting, Oceania X
Paediatric Task Force Meeting, Oceania II
PAH-ICON: International Consortium for Genetic Studies in PAH Meeting, Oceania II
Imaging Task Force, Bora Bora I
High Altitude Task Force Meeting, Oceania X
PVRI Board Meeting, Bora Bora IV

Scientific programme, Windsor Oceanico, Asia, 3rd Floor

Thursday, 30 January: Heterogeneity in the presentation of PH

Session 1: Establishing the framework for the classification and diagnosis of PH worldwide
Buffet lunch
Session 2: Risk stratification and treatment in the new era of PH therapeutics
Poster presentations

Friday, 31 January: Heterogeneity in the pathobiology of PH

08:00-11:10	Session 3: Vascular heterogeneity in chronic lung disease
11:10-13:00	Buffet lunch
13:00-16:30	Session 4: Heterogeneity in PH associated with heart disease
16:30-18:00	Poster presentations

Saturday, 1 February: Learning from heterogeneity to improve outcomes in PH

08:00-11:00	Session 5: The individual exposome and its contribution to PH heterogeneity
11:00-12:45	Buffet lunch
12:45-13:45	Session 6: Quantifying therapeutic responses
14:15-16:15	Session 7: Leveraging disease heterogeneity in clinical trial design

Functions and meetings

Thursday, 30 January

11:05-13:00	Career Catalyst Luncheon (bookable), Windsor Barra, Alhambra & El Pardo, 2nd Floor
18:00-20:00	Welcome Drinks Reception (open to all), Windsor Barra, Alhambra & El Pardo, 2nd Floor

Friday, 31 January

11:10-13:00	Women in PH Luncheon (bookable), Windsor Barra, Alhambra & El Pardo, 2nd Floor
19:00-23:59	Gala Dinner & Awards Presentation (bookable), Windsor Barra, Louvre, Ground Floor

Saturday, 1 February

11:00-12:00	Hot topics from PVRI GoDeep (bookable), TBC
TBC	Pulmonary Circulation Journal Meeting (closed meeting), TBC

High-Altitude Task Force

Challenges to the pulmonary circulation & beyond at high altitude

Moderators: Aasta	Mishra,	Silvia	Ulrich	

Each talk includes 10 minutes of discussion time		
16:00-16:30	Birth at high altitude – immediate cha Alexandra Heath	
16:30-17:00	The role of the endothelium in acute to hypoxia Wolfgang Kübler	
17:00-17:30	Patients diagnosed with pulmonary v Silvia Ulrich	
17:30-18:00	Lowlanders with COPD going to altitu pulmonary vasculature Mona Lichtblau	
18:00-18:30	High Altitude Task Force meeting	



Wednesday 29 January Windsor Oceanico, Oceania X, 2nd Floor

allenges & life-long consequences

& chronic pulmonary vascular adaptation

vascular disease (PAH/CTEPH) at high altitude

ude – implication for the right heart & the

Paediatric & Congenital Heart Disease Task Force

	Moderators: Maria Jesus del Cerro, Steve Abman, Shahin Moledina			
Opportunities for Paediatric Task Force involvement in PVRI activities 08:00-08:08 PVRI GoDeep TBC				
	08:08-08:15	PVRI Pulmonary Hypertension Global Patient Survey (PH GPS) Shahin Moledina		
	08:15-08:23	Innovative Drug Development Initiative Steven Abman		
	08:23-08:30	Discussion: Opportunities & proposal for Task Force lead initiatives All		
World Symposium recommendations & changes 08:30-08:40 Comments on the World Symposium – lights and shadows Maria Jesus del Cerro		Comments on the World Symposium – lights and shadows		
	08:40-09:00	Main changes & rationale TBC		
	09:00-09:30	Discussion All		
	Collaboration 09:30-10:00	Ilaboration between registries 30-10:00 Collaboration between registries: Let's make it real Maria Jesus del Cerro		
	09:30-10:00	Discussion All		
-	10:00-10:15	Refreshment break		
	Persistent pu 10:15-10:25	Ilmonary hypertension of the newborn Let's talk about PPHN Steven Abman		
	10:25-11:00	Defining the disease, clinical phenotypes, global differences & next steps All		
	Experiences 11:00-11:30	& initiatives from the Task Force I have a clinical case I want to discuss All		
	11:30-12:00	I have a research project I want to share All		



Wednesday 29 January

Windsor Oceanico, Oceania II, 2nd Floor

Infection in Pulmonary Vascular Disease (iPVD) Consortium Task Force

08:00-08:05	Welcome and opening remarks Navneet Dhillon
Session 1: Current updates on infection associated PVDs Chairs: Navneet Dhillon, Suellen Oliveira	
08:05-08:25	Pulmonary vascular complications of tuberculosis: PH and beyond Brian Allwood
08:25-08:45	Update on multiple co-morbidities and PVD Peter Nyasulu
08:45-09:05	Update on HIV and PVD Ana Olga Mocumbi
09:05-09:25	Mechanistic overlap between inflammatory pathways relevant to PH and COVID-19 Stephen Chan
09:25-09:45	Pathobiology of inflammatory immune cells in schistosoma induced PH Rahul Kumar
09:45-10:05	Fungal infections induced PH Alexandre Fabro
10:05-10:30	Refreshment break
Session 2: Schistosomiasis associated PVD in Latin America Chairs: Ghazwan Butrous, Brian Graham	
10:30-10:50	Overview of Sch-PAH: case-based presentation of the disease spectrum Angela Bandeira
10:50-11:10	Clinical and epidemiological aspects of Sch-PAH in Bahia Camila Loureiro
11:10-11:30	Clinical and epidemiological aspects of Sch-PAH in Minas Gerais Ricardo Correa

	11:30-11:50	Clinical presentation of hepatoesplenic schistosomiasis in Brazil Roberto José Carvalho
	11:50-12:10	Advances in schistosomiasis basic resear Katia Oliveira
_	12:10-12:30	Insights from NIH schistosomiasis PAH m Rudolf Oliveira
	12:30-13:30	Lunch break
_		ssions on schistosomiasis beet K Dhillon, Suellen Oliveira
	13:30-14:00	Panel 1: Current challenges in diagnosing availability and diagnostic tools Chair: Rogerio Souza Panel: Eliane Mancuzo, Camila Rezende,
	14:00-14:30	Panel 2: Epidemiological and preventive current status, future perspectives, and i Chair: Ricardo Correa Panel: Miriam Tendler, Roberto José Carv
_	14:30-15:00	Refreshment break
_		econd hit phenomenon in infection asso olf Oliviera, Vinicio de Jesus Perez
	15:00-15:20	Air pollution, climate change, infection ar Mona Lichtblau
	15:20-15:40	Emerging insights into HIV- and metham to management Prangthip Charoenpong
	15:40-16:00	Microbiome and schistosomiasis Suellen Oliveira



Wednesday 29 January

Windsor Oceanico, Oceania X, 2nd Floor

search: insights from Brazil

H multicenter study

sing schistosomiasis, including biomarker

de, Camila Loureiro

ive aspects of schistosomiasis in Brazil, including nd impact on PH development

Carvalho, Rudolf Oliveira, Angela Bandeira

ssociated PVDs

n and PH

amphetamine-driven PAH: From mechanisms

Scientific programme speakers



Steven Abman University of Colorado



Prashant Bobhate Kokilaben Dhirubai Ambani Hospital

Stephen Chan

School of Medicine

Kara Goss

UT Southwestern

Medical Center

University of Pittsburgh



Medical Center



Vinicio de Jesus

Stanford University

Anna Hemnes

Medical Center

Vanderbilt University

Maria Jesus del

Hospital Universitario

Wolfgang Kübler

Universitätsmedizin

Cerro Marin

Ramón y Cajal

Charité -

Charly Lai

Indiana University

School of Medicine

Berlin

Perez

Vineet Agrawal

Vanderbilt University



Rolf Berger

University Medical

Center Groningen

Vanderbilt University



Niamh Errington

Rachel Hopper Lucile Packard Children's Hospital/ Stanford University School of Medicine

David Kiely

Grazyna **Kwapiszewska** Medical University Graz & Institute of Lung Health



Brad Maron University of Maryland

Shahin Moledina Great Ormond Street Hospital

Sasha Prisco University of Minnesota



Soni Savai-**Pullamsetti** Max Planck Institute

Charlotte

Summers

University of

Cambridge



Medical School



Giessen

Khodr Tello University Hospital

Nidhy Varghese

Texas Children's

Hospital

Sofia Villar

University of

Cambridge

Roham Zamanian

Stanford University

Rubin Tuder University of Colorado Anschutz Medical Campus









Dunbar Ivy Children's Hospital Colorado/University of Colorado School of Medicine



Gabor Kovacs Medical University of Graz



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Hiromi Matsubara Okayama Medical Center

Tim Lahm

National Jewish Health



Steven Niederer Imperial College London



Rudolf Oliveira Federal University of Sao Paulo



Ioana Preston Lahey Clinic



University of Sheffield



Farbod (Nick) Rahaghi Brigham and Women's

Hospital / Harvard Medical School

Sandeep Sahay Houston Methodist Hospital

Rogerio Souza

University of Sao Paulo



Alex Rothman University of Sheffield



Catherine Simpson Johns Hopkins University



Edda Spiekerkoetter Stanford University



Caio Tavares Imperial College London



Karin Tran Lundmark Skane University Hospital & Lund University



Rebecca Vanderpool The Ohio State University



Corey Ventetuolo Brown University



Martin Wilkins Imperial College London



Andrew Swift University of Sheffield

Mark Toshner University of Cambridge

Silvia Ulrich University Hospital Zurich

Frances Varian University of Sheffield

Jason Weatherald University of Alberta

Nayeli Zayas Instituto Nacional de Cardiologia Ignacio Chavez

SESSION 1: I worldwide	Establishing the framework for the classification & diagnosis of PH	SESSION 2 of PH ther	2: Risk stratification apeutics
Moderators: K	atarina Zeder, Lindsay Forbes, Sonja Bartolome	Moderators:	Pilar Escribano Subia
08:00-08:05	PVRI President's welcome Anna Hemnes	13:00-13:15	Developments in ri Valentina Mercurio
08:05-08:20	PH care in Brazil Rogerio Souza	13:15-13:30	RV phenotyping in Tim Lahm
08:20-08:35	Classification & diagnosis of PH: Updates from the 7th WSPH Gabor Kovacs	13:30-13:37	Basic/translational Speaker TBC
08:35-08:50	Omics-based & data-driven approaches to early disease diagnosis Catherine Simpson	13:37-13:52	The impact of nove Sandeep Sahay
08:50-08:57	Basic/translational abstract Speaker TBC	13:52-14:07	Surgical Interventic Nayeli Zayas
08:57-09:12	CIPHER & CIPHER-MRI studies for early diagnosis of PH Ioana Preston	14:07-14:37	Refreshment break
09:12-09:27	Advanced medical imaging & AI in PH diagnosis & classification	Moderators:	Corey Ventetuolo, Atl
57.12-07.27	Andy Swift	14:37-14:52	Approach to the tre
9:27-09:57	Refreshment break		Anna Hemnes
Moderators: T	atiana Kudryashova, Gustavo Heresi, Tim Lahm	14:52-15:07	Risk stratification & Rolf Berger
09:57-10:12	Cardiopulmonary exercise testing in the diagnosis & phenotyping of PH patients Khodr Tello	15:07-15:15	Basic/translational Speaker TBC
10:12-10:27	Classification & diagnosis of paediatric PH: Updates from the 7th WSPH Dunbar Ivy	15:15-15:30	Medical & surgical Hiromi Matsubara
10:27-10:35	Basic/translational abstract Speaker TBC	15:30-16:00	Panel discussion: R treatment in LMIC Facilitators: Vinicio
10:35-10:50	CTEPH & CTED approach to early diagnosis & treatment Mark Toshner	16:00-18:00	Mauricio Orozco Le Poster presentatio
10:50-11:05	How pre-clinical models can be used to improve clinical phenotyping & early diagnosis Vineet Agrawal	18:00-19:30	Drinks Reception
44:05 40:00			

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

11:05-13:00 **Career Catalyst Luncheon**

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ESSION 2: Risk stratification & treatment in the new era

Moderators: Pilar Escribano Subias, Sue Gue, Sandeep Sahay

Developments in risk stratification scores in PH

Basic/translational abstract

Mauricio Orozco Levi

Poster presentations

Basic/translational abstract

RV phenotyping in PH risk stratification & treatment

The impact of novel therapeutics on the treatment algorithm of PH

Surgical Interventions, mechanical support, & transplant in end-stage PH

Thursday

30 January

Windsor Oceanico, Asia, 3rd Floor

Moderators: Corey Ventetuolo, Athiththan Yogeswaran, Horst Olschewski

Approach to the treatment of Group 1 PH patients with co-morbidities

Risk stratification & treatment of paediatric PH

Medical & surgical management of CTED & CTEPH

Panel discussion: Realities & challenges of applying PH guidelines for diagnosis &

Facilitators: Vinicio de Jesus Perez, Werner Seeger, Ana Mocumbi, Gerald Maarman,



 Moderators: Grazyna Kwapiszewska, Shelsey Johnson, Susan Majka 08:00-08:05 Introduction Grazyna Kwapiszewska 08:05-08:20 Clinical aspects of PH heterogeneity in chronic lung disease: Same as or different? Corey Ventetuolo 		arazyna Kwapiszewska, Shelsey Johnson, Susan Majka
	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? Corey Ventetuolo
	08:20-08:35	Translational investigations of PH in fibrotic lung disease models Susan Majka
	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, Sarah MacIssac
	09:50-09:55	Introduction David Kiely
	09:55-10:10	Vasculature in CLD: Imaging insights Farbod (Nick) Rahaghi
	10:10-10:25	Pulmonary vascular heterogeneity: Insights from contemporary pathological approaches Rubin Tuder
	10:25-10:40	Vascular changes in paediatric 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 Host: Anna Hemnes Guest speakers: Jill Maron, Karin Tran-Lundmark,

SESSION 3: Vascular heterogeneity in chronic lung disease

SESSION 4: Heterogeneity in PH associated with heart disease

Moderators: N	lidhy Varghese, Baktybek Kojonazarov, I
13:00-13:05	Introduction Nidhy Varghese
13:05-13:20	How do HFrEF & HFpEF affect the pulr Charly Lai
13:20-13:35	Congenital heart disease & the pulmon Shahin Moledina
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 Rachel Hopper
14:20-14:50	Refreshment break
Moderators:	Harm Jan Bogaard, Evan Brittain, Philip
14:50-14:55	Introduction Harm Jan Bogaard
	nann oan bogaala
14:55-15:10	How can we study the right ventricle to Edda Spiekerkoetter
14:55-15:10 15:10-15:25	How can we study the right ventricle to
	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu
15:10-15:25	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract
15:10-15:25 15:25-15:32	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract Speaker TBC Abstract
15:10-15:25 15:25-15:32 15:32-15:40	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract Speaker TBC Abstract Speaker TBC Cellular heterogeneity in RV dysfunction
15:10-15:25 15:25-15:32 15:32-15:40 15:40-15:55	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract Speaker TBC Abstract Speaker TBC Cellular heterogeneity in RV dysfunction Soni Savai-Pullamsetti
15:10-15:25 15:25-15:32 15:32-15:40 15:40-15:55 15:55-16:10	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract Speaker TBC Abstract Speaker TBC Cellular heterogeneity in RV dysfunction Soni Savai-Pullamsetti Managing RV dysfunction in resource- Prashant Bobhate
15:10-15:25 15:25-15:32 15:32-15:40 15:40-15:55 15:55-16:10 16:10-16:30	How can we study the right ventricle to Edda Spiekerkoetter Advances in imaging RV function in hu Rebecca Vanderpool Abstract Speaker TBC Abstract Speaker TBC Cellular heterogeneity in RV dysfunction Soni Savai-Pullamsetti Managing RV dysfunction in resource- Prashant Bobhate Panel discussion

Ana Olga Mocumbi

, Dora Haag (TBC)

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

Ilmonary vasculature & how can we model it?

onary vasculature

ts on the pulmonary vasculature

lipp Douschan

to develop novel therapies?

numans & animal models with PH

tion

e-limited settings





ESSION 5: The individual exposome	& its contribution to PH heterogeneity
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	Moderators: Lan Zhao, Navneet Dhillon, Harry Karmouty Quintana	
	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: F	lavia Navarro, Luke Howard, Nicolas Kolaitis (TBC)
	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
	10:37-10:45	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 Chairs: Martin Wilkins, Paul Hassoun, Werner Seeger Overview of the GoDeep meta-registry Werner Seeger Risk scores beyond group 1 PH – baseline and follow-up Athiththan Yogeswaran Survival outcomes and Impact of targeted PAH therapy in PoPH
		 Arun Jose PAH-targeted therapies in group 3 PH – PDE5 inhibitor therapy associated with improved survival Khodr Tello Male survival disadvantage in PH: independent of etiology, age, disease
		severity, comorbidities and treatment, but race-dependent Evan Brittain

SESSION 6: Quantifying therapeutic responses

Moderators: P	atricia Thistlethwaite, Andy Sweatt, Ste
12:45-13:00	How should we define disease modifi Roham Zamanian
13:00-13:15	Developing imaging surrogates of vas Karin Tran Lundmark
13:15-13:23	Abstract - Digital endpoints & monito Speaker TBC
13:23-13:30	Abstract - Molecular classification Speaker TBC
13:30-13:45	A joint talk with PVRI and PHA USA Patient reported outcomes Frances Varian
13:45-14:15	Refreshment break
SESSION 7: I	Leveraging disease heterogeneit
Moderators: T	BC, Jane Leopold, Navneet Singh
14:15-14:30	What is a platform trial? Charlotte Summers
14:30-14:45	Global perspective & digital trials Caio Tavares
14:45-15:00	Update in paediatric clinical trials Maria Jesus del Cerro
Dragon's Den Dragons/Shar	<mark>/ Shark Tank</mark> ks: Sonja Bartolome, Ardeshir Ghofran
15:00-15:05	Dragon Den introduction Martin Wilkins
15:05-15:20	PHoenix trial (Rationalising current tr Alex Rothman
15:20-15:35	Stratosphere Baysian trial for BMPR2 Sofia Villar
15:35-15:50	CRAVE: Canadian Right ventricular A Jason Weatherald
15:50-16:00	Summary Martin Wilkins
16:00-16:15	Building and testing a personal digita Steve Niederer



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ication?

scular histology to quantify reverse remodeling

oring



Saturday

1 February Windsor Oceanico, Asia, 3rd Floor

y in clinical trial design

i, Charlotte Summers, Raymond Benza

eatments using implanted devices)

mutation carriers

daptiVE platform trial

al twin for PH

