Sunday 21 January 2018

**PVRI Board of Directors Meeting**
Chair: Paul Corris PVRI President 2016/17, UNIVERSITY OF NEWCASTLE, UK
and official handover to Paul Hassoun, PVRI President 2018/19, JOHNS HOPKINS SCHOOL OF MEDICINE, USA

10:00 - 17:00

**PVRI Pre-clinical & Molecular Science Task Force Meeting**
Chairs: Sebastien Bonnet LAVAL UNIVERSITY, CANADA, Duncan Stewart OTTAWA HOSPITAL, CANADA & Soni Pullamsetti INSTITUTE FOR HEART & LUNG RESEARCH, GERMANY
Methodological rigour in pre-clinical pulmonary studies

09:00 - 17:00

**PVRI Imaging Task Force Meeting**
Chairs: Andrew Peacock UNIVERSITY OF GLASGOW, UK & David Kiely UNIVERSITY OF SHEFFIELD, UK
Imaging and pulmonary hypertension

10:00 - 13:00
12th PVRI Annual World Congress
on Pulmonary Vascular Disease

Monday 22 January 2018

Breakfast 07:00 - 08:00

Welcome 08:00 - 08:10

Plenary 1
Chairs: Nick Morrell UNIVERSITY OF CAMBRIDGE, UK,
Mohamed Ahmed COHEN CHILDREN’S HOSPITAL, NEW YORK, FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH, USA
& Hong Gu BEIJING ANZHEN HOSPITAL, CAPITAL MEDICAL UNIVERSITY, CHINA

Genes and pulmonary hypertension 08:10 - 10:00

PROFESSOR SHEILA GLENNIS HAWORTH LECTURE:
The genetics of pulmonary arterial hypertension // Nick Morrell UNIVERSITY OF CAMBRIDGE, UK

New genetic findings in pulmonary arterial hypertension // Christina Eichstaedt UNIVERSITY OF HEIDELBERG, GERMANY

Genetics of pulmonary arterial hypertension - from bench towards bedside // Micheala Aldred DEPARTMENT OF MEDICINE, INDIANA UNIVERSITY, USA

DNA sequencing of neonates with chronic lung disease with and without pulmonary hypertension // Mohamed Ahmed COHEN CHILDREN’S HOSPITAL, NEW YORK, FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH, USA

1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.

BREAK 10:00 - 10:30
**Plenary 2**

**Chairs:** Paul Yu BRIGHAM AND WOMEN’S HOSPITAL, USA & Stuart Cook DUKE NATIONAL UNIVERSITY, SINGAPORE & Stefano Ghio UNIVERSITY OF PAVIA, ITALY

**The myocardium**  
10:30 - 12:30

**PROFESSOR STUART RICH LECTURE:**  
Genotype-phenotype studies in the heart // Stuart Cook DUKE NATIONAL UNIVERSITY, SINGAPORE

Epigenetics of Heart Failure  
// Roger Foo NATIONAL UNIVERSITY HEART CENTRE, SINGAPORE

LMNA cardiomyopathy  
// Colin Stewart INSTITUTE OF MEDICAL BIOLOGY, SINGAPORE

Developing a cardiopulmonary resuscitation strategy for the right ventricle  
// Cameron Dezfulian UNIVERSITY OF PITTSBURG MEDICAL CENTRE, USA

1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.

**LUNCH**  
12:30 - 13:30

**Pulmonary Circulation Editorial Meeting**  
12:30 - 13:30

**Plenary 3**

**Chairs:** Bradley Maron BRIGHAM & WOMEN’S HOSPITAL, USA & Allan Lawrie UNIVERSITY OF SHEFFIELD, UK

"Towards a molecular classification of PH". The American Heart Association Partnership with PVRI  
13:30 - 15:30

Comorbidity-driven taxonomy of paediatric pulmonary hypertension  
// Mei-Sing Ong HAVARD MEDICAL SCHOOL; HAVARD PILGRIM CARE INSTITUTE, USA

Network medicine to phenotype exercise limitation: beyond cluster analyses  
// Bradley Maron BRIGHAM & WOMEN’S HOSPITAL, USA

PVDOMICS // Jane Leopold PARTNERS HEALTHCARE, BOSTON, USA

Using biology to phenotype pulmonary hypertension // Evan Brittain VANDERBILT UNIVERSITY, USA

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

**PVRI Annual General Meeting**  
16:00 - 17:00

**Welcome & networking reception, incorporating CLINICAL and BASIC poster sessions**  
17:30 - 20:00

Attendees mingle with posters over drinks and snacks. Presenters stand by their posters between 18:30 - 19:30 and are prepared to discuss their work.

Organisers of the poster session: Ralph Schermuly JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY, Adrian Hobbs WILLIAM HARVEY RESEARCH INSTITUTE, UK & Norbert Weissmann JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

**Regional Task Force Leaders Meeting**  
Chair: Sheila Glennis Haworth CBE UNIVERSITY COLLEGE LONDON, UK  
19:00 - 21:00

**END OF DAY ONE SCIENTIFIC SESSIONS**
Tuesday 23 January 2018

Plenary 4

Chairs: Kurt Stenmark UNIVERSITY OF COLORADO DENVER SCHOOL OF MEDICINE, USA, Edda Spiekerkoetter STANFORD SCHOOL OF MEDICINE, USA

What’s hot BASIC

08:00 - 10:00

The role of Hif2-α in pulmonary vascular remodelling and heart failure
// YouYang Zhao UNIVERSITY OF ILLINOIS, USA

Using lineage tracing and deep tissue imaging to understand neointima formation in PAH
// Maya Kumar STANFORD UNIVERSITY, USA

Local and systemic consequences of pulmonary glycocalyx degradation
// Eric Schmidt UNIVERSITY OF COLORADO DENVER SCHOOL OF MEDICINE, USA

Cellular stress pathways in PAH // Sebastien Bonnet LAVALE UNIVERSITY, CANADA

1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.

BREAK

10:00 - 10:30

Plenary 5

Chairs: James Yip NATIONAL UNIVERSITY HEART CENTRE, SINGAPORE & Hsu Chih Hsin NATIONAL TAIWAN UNIVERSITY, TAIWAN

Panel: Comprises all discussants from case presentations

Clinical case round table

10:30 - 12:30

Presenters: Presenters are expected to identify an anonymised case, which can be presented based on up to 3 slides. The case should clearly highlight a challenging diagnostic or management issue. (25 minutes per case)

Case 1
Presenter: Gérald Simonneau HOPITAUX UNIVERSITAIRES PARIS-SUD, FRANCE

Case 2
Presenter: Reda Girgis MICHIGAN STATE UNIVERSITY COLLEGE OF HUMAN MEDICINE, USA

Case 3
Presenter: Werner Seeger JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

Case 4
Presenter: Ardeschir Ghofrani JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

One minute poster session

1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.
PVRI Digital Clinic // Colin Church UNIVERSITY OF GLASGOW, UK & Martin Johnson UNIVERSITY OF GLASGOW, UK 12:00 - 12:30

LUNCH 12:30 - 13:30

Asia-Pacific meeting open to all delegates 13:30 - 17:30
A joint session with the Asia Pacific Cardiovascular Society // James Yip NATIONAL UNIVERSITY HEART CENTRE, SINGAPORE

Difficult cases in pulmonary hypertension symposium // Sponsored by Bayer Singapore 13:00 - 17:00

Theme 1: Mix and match 13:30 - 15:00
Closure of congenital defects with PAH // Joseph Vettukattil SPECTRUM HEALTH, HELEN DEVOS CHILDREN'S HOSPITAL, USA
Discussant // Edgar Tay NATIONAL UNIVERSITY HEART CENTRE, SINGAPORE
CTD-PAH or CTD-ILD // Ivandito Kuntjoro NATIONAL UNIVERSITY HEART CENTRE, SINGAPORE
Discussant // Andrea Low SINGAPORE GENERAL HOSPITAL, SINGAPORE
PAH vs pulmonary venous hypertension // James Yip NATIONAL UNIVERSITY HEART CENTRE
Discussant // Ju Le Tan NATIONAL HEART CENTRE, SINGAPORE

BREAK 15:00 - 15:30

Theme 2: Difficult problems 15:30 - 17:00
Pregnancy and PAH // Geetha Kandavello INSTITUT JANTUNG NEGARA, MALAYSIA
Discussant // Ju Le Tan NATIONAL HEART CENTRE, SINGAPORE
PAH in NYHA 4 (ICU Care) // Hsu Chih Hsin NATIONAL CHENG KUNG UNIVERSITY HOSPITAL, TAINAN, TAIWAN
Discussant // Phua Ghee Chee SINGAPORE GENERAL HOSPITAL, SINGAPORE
PAH with Chest Pain // Dyah Wulan Anggrahini UNIVERSITY GADJAH MADA, INDONESIA
Discussant // Lim Soo Teik NATIONAL HEART CENTRE, SINGAPORE

PVRI Pharma Task Force Working Group Meeting 18:00 - 20:00
Initiative 1: Clinical Trial Designs, Endpoints & Biomarkers
Chairs: Peter Fernandes BELLEROPHON, USA, Sylvia Nikkho BAYER, GERMANY & Lawrence Zisman PULMOKINE, USA

PVRI Paediatric & Congenital Heart Disease Task Force Meeting 17:00 - 21:00
Chairs: Maria Jesus del Cerro RAMON Y CAJAL UNIVERSITY HOSPITAL, SPAIN, Shahin Moledina GREAT ORMOND STREET HOSPITAL, UK, & Steven Abman UNIVERSITY OF COLORADO DENVER SCHOOL OF MEDICINE, USA

END OF DAY TWO SCIENTIFIC SESSIONS
Wednesday 24 January 2018

**Plenary 6**

**Chairs:** Ardeschir Ghofrani, JUSTUS LIEBIG UNIVERSITY GIESEN, GERMANY, Nick Kim, UNIVERSITY OF CALIFORNIA, SAN DIEGO, USA

& Gérald Simonneau, HÔPITAUX UNIVERSITAIRES PARIS-SUD, FRANCE

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<th>Time</th>
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<tr>
<td>08:00 - 10:00</td>
<td><strong>Chronic thromboembolic pulmonary hypertension (CTEPH)</strong></td>
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<td>Diagnosis: What are the advantages and limitations of each imaging modality?</td>
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<td>//Kim Kerr, UNIVERSITY OF CALIFORNIA, SAN DIEGO, USA</td>
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<td>PEA: Who are poor candidates for pulmonary endarterectomy?</td>
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<td>//Andrea D’Armini, UNIVERSITY OF PAVIA, ITALY</td>
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<td>Medical Therapy: Time for combination therapy or multi-modality approach?</td>
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<td>//Marion Delcroix, UZ LEUVEN, BELGIUM</td>
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<td>BPA: What are the complications and how are they avoided/managed?</td>
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<td>//Hiromi Matsumara, NATIONAL HOSPITAL ORGANISATION, JAPAN</td>
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1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.

**BREAK**

10:00 - 10:30

**Plenary 7**

**Chair:** Stuart Rich, NORTHWESTERN UNIVERSITY, USA

**Panel:** Paul Corris, UNIVERSITY OF NEWCASTLE, UK, Peter Fernandes, BELLEROPHON THERAPEUTICS, USA

Declan Doogan, BIOHAVEN PHARMACEUTICALS, USA & patient representative

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<tr>
<td>10:30 - 11:30</td>
<td><strong>Personalised medicine</strong></td>
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<td>Interactive discussion with audience exploring the need for, and place of, personalised medicine in the management of pulmonary hypertension.</td>
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1 minute poster presentations will follow the talks. Presenters will introduce their novel work from 1 slide. There will be no questions at this time, but interested parties can discuss the posters with the presenters during the allocated poster session slots.

**Lunchtime poster session**

**Moderators:** Allan Lawrie, UNIVERSITY OF SHEFFIELD, UK,

Brian Graham, UNIVERSITY OF COLORADO DENVER SCHOOL OF MEDICINE, USA,

Werner Seeger, JUSTUS LIEBIG UNIVERSITY GIESEN, GERMANY,

Ju Le Tan, DEPARTMENT OF CARDIOLOGY, NATIONAL HEART CENTRE, SINGAPORE

& Ghazwan Butrous, PVRI PRESIDENT EMERITUS

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<tr>
<td>11:45 - 13:45</td>
<td><strong>Lunchtime poster session</strong></td>
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PVRI Pharma Task Force ‘Meet & Greet Open-house’

12:30 - 13:30

**LUNCH**

12:45 - 14:00
Plenary 8

Chairs: Martin Willkins IMPERIAL COLLEGE LONDON, UK, Anna Hemnes VANDERBILT UNIVERSITY, USA & Mark Richards NATIONAL UNIVERSITY OF SINGAPORE, UNIVERSITY OF OTAGO, NEW ZEALAND

Biomarkers and clinical trial endpoints 14:00 - 15:30

Experience with high throughput proteomics to identify biomarkers in inform clinical trial design // Sarah Grant NOVARTIS, USA

Challenges using the metabolome to inform pulmonary hypertension // Chris Rhodes IMPERIAL COLLEGE LONDON, UK

Defining drug targets using Mendelian randomisation // Dan Swerdlow GENOMICS PLC, UK

What you need to do to to qualify a biomarker as useful to inform clinical trial // Krishna Prasad MHRA, UK

BREAK 15:30 - 16:00

Plenary 9

Chairs: Luke Howard IMPERIAL COLLEGE LONDON, UK & Harry Karmouty-Quintana UTHEALTH-MCGOVERN MEDICAL SCHOOL, HOUSTON, USA

Talks from 1 slide 16:00 - 17:00

Speakers present a new concept or address a big idea from 1 slide presentation (5 minutes) followed by a 10-minute discussion.

ACTRIIA-Fc rebalances BMP and Activin/TGF-B signalling to attenuate experimental pulmonary hypertension // Paul Yu BRIGHAM AND WOMEN’S HOSPITAL, USA

Endothelium-protective effects of exosomal KLF2-induced micro RNAs: implications for treatment of pulmonary hypertension // Beata Wojciak Stothard IMPERIAL COLLEGE, LONDON, UK

NMDA-type glutamate receptor activation promotes vascular remodeling and pulmonary arterial hypertension // Sylvia Cohen-Kaminsky UNIVERSITE PARIS SUD, FRANCE

END OF DAY THREE SCIENTIFIC SESSIONS

PVRI GALA DINNER (All welcome, including partners & guests) 20:00 onwards

Buy your ticket at the Reception Desk
Thursday 25 January 2018

**Plenary 10**  
**Chairs:** Magdi Yacoub IMPERIAL COLLEGE LONDON, UK & Sheila Glennis Haworth CBE UNIVERSITY COLLEGE LONDON, UK

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<th>Time</th>
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<tr>
<td>08:00 - 09:30</td>
<td><strong>Global issues</strong></td>
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| 09:30 - 10:00 | **Plenary 11**

**PROFESSOR GHAZWAN BUTROUS PLENARY LECTURE:**  
Pulmonary hypertension in lung disease  
// Werner Seeger JUSTUS LIEBIG UNIVERSITY GIESSEN, GERMANY

Pulmonary hypertension in Tibet  
// Lan Zhao IMPERIAL COLLEGE LONDON, UK

What to expect from the World Pulmonary Hypertension meeting in Nice 2018  
// Gérald Simonneau HÔPITAUX UNIVERSITAIRES PARIS-SUD, FRANCE

**BREAK**

**Plenary 11**  
**Chairs:** Paul Hassoun JOHNS HOPKINS SCHOOL OF MEDICINE, USA  
& Christophe Guignabert UNIVERSITÉ PARIS-SUD / UNIVERSITÉ PARIS-SACLAY, FRANCE

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<td>10:00 - 12:00</td>
<td><strong>Immunity and inflammation</strong></td>
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Role of inflammation in pulmonary hypertension  
// Brian Graham UNIVERSITY OF COLORADO DENVER SCHOOL OF MEDICINE, USA

Inflammation in pre-clinical models and humans  
// Christophe Guignabert UNIVERSITÉ PARIS-SUD / UNIVERSITÉ PARIS-SACLAY, FRANCE

Trial of Tocilizumab for PAH - The UK Clinical Trial Network  
// Paul Corris UNIVERSITY OF NEWCASTLE, UK

**END OF MEETING**

**Afternoon travel**