

## Registration:

Please register for our conference via our website: [www.uke.de/DECIPHER/en](http://www.uke.de/DECIPHER/en).

**Registration deadline is August 30, 2019.**

Please note that for administrative reasons no registration and payment of conference fee will be possible on-site.

**Registration fee is 80 €.**

## Abstract submission:

Abstract submission is possible via our website: [www.uke.de/DECIPHER/en](http://www.uke.de/DECIPHER/en).

**Abstract submission deadline is August 30, 2019.**

Presenting authors will be notified of their abstract status and presentation mode by mid-September.

## Organizers:

**Prof. Dr. Rainer Böger**

**Dr. Juliane Hannemann**

University Medical Center Hamburg-Eppendorf,  
Germany

**Prof. Dr. Julio Brito**

**Prof. Dr. Patricia Siquès**

Universidad Arturo Prat, Iquique, Chile



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# 1<sup>st</sup> International DECIPHER Symposium on Hypoxia and the Lung

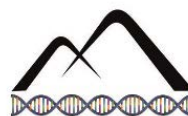
**Iquique (Chile)**

**October 16 – 17, 2019**



Scientific program and extended information  
available at:

[www.uke.de/DECIPHER/en](http://www.uke.de/DECIPHER/en)



**DECIPHER**

German-Chilean Institute for Research on  
Pulmonary Hypoxia and its Health Sequelae

## Scientific program

### Wednesday morning

*Pre-symposium, GORE-TARAPACA Generation project*

#### F. León-Velarde (Lima, PE)

Importance of international cooperation and Networks in Research and formation of advanced human capital

#### B. Quintana (Madrid, ES)

Available tools for the study of cardiac metabolism and remodelling in left and right ventricle

*Short oral presentations*

#### S. Arribas (Madrid, ES)

Fetal programming: oxidative status role and consequences for pulmonary hypertension

*Lunch break*

### Wednesday afternoon

*Welcome and Introduction to DECIPHER*

#### J. Brito (Iquique, CL)

The epidemiology and clinical manifestation of cardio-pulmonary disease in chronic and chronic intermittent hypoxia

#### H. Mairböurl (Heidelberg, DE)

The role of hypoxia-induced modulation of alveolar epithelial sodium transport in hypoxemia at high altitude

#### F. Villafuerte (Lima, PE)

Genetic and physiological factors modulating the adaptation to chronic hypoxia at high altitude

*Coffee break and Poster viewing*

#### R. Böger (Hamburg, DE)

The dual role of the L-arginine/NO pathway in systemic hypoxic vasodilation and pulmonary hypoxic vasoconstriction

#### E. Herrera (Santiago, CL)

The roles of oxidative stress and heme oxygenase in the pulmonary response to hypoxia

#### P. Siquès (Iquique, CL)

Involvement of overweight and lipid metabolism in the development of pulmonary hypertension in chronic intermittent hypoxia

#### P.T. Schumacker (Chicago, US)

The role of mitochondria in oxygen sensing and in the tissue response to hypoxia

### DECIPHER Institute signing ceremony

U. Koch-Gromus, Dean, University Medical Center Hamburg-Eppendorf (DE)

G. Soto Bringas, Rector, Universidad Arturo Prat, Iquique (CL)

*Conference Dinner*

### Thursday morning

#### J. Hannemann (Hamburg, DE)

Metabolism of asymmetric dimethylarginine (ADMA) in hypoxia: from bench to bedside

#### J.I. Mendes Campos (Los Andes, CL)

Relevance of chronic exposure to hypoxia at high altitude for occupational medicine

#### E. Swenson (Seattle, US)

Therapeutic options in the prevention and treatment of acute and chronic mountain sickness

*Coffee break and Poster viewing*

*Short oral presentations*

#### G.F. Díaz (Bogotá, CO)

Neonatal pulmonary arterial hypertension at high altitude – what is different, what is similar to newborn PAH in lowlands?

#### J. Hohlfield (Hannover, DE)

The role of hypoxia in chronic lung diseases

*Farewell*