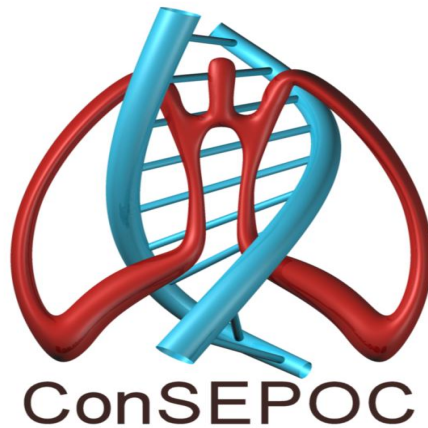


ConsEPOC International Meeting

“Hypoxia and Inflammation in Physiology and Disease”



MADRID, MAY 4th, 2015

**“Aula Magna” Faculty of Medicine (Universidad Autónoma de Madrid)
ArzobispoMorcillo Street 4, Madrid**



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INTRODUCTION

Chronic obstructive pulmonary disease (COPD) and sleep apnea-hypopnea syndrome (SAHS) are pathologies with a high prevalence and morbidity, characterized by a decrease in the blood oxygen tension (hypoxemia) and, in the case of COPD, an excessive inflammatory response that damages lungs. Combination of hypoxemia and inflammation is responsible for the symptoms of these patients. However, the subjacent cellular and molecular mechanisms are, to a large extent, unknown. The clinical course of COPD or SAHS patients is significantly variable and is not attributable to differences in degree of lung involvement or PaO₂ values. As a consequence of the hypoxemia that is produced in both pathologies, tissues suffer a change of balance between contribution and demand for oxygen (hypoxia), giving rise to activation of the Hypoxia-Inducible Factor (HIF) and the induction of its target genes. Given the central role of this molecule in the adaptive responses to the lack of oxygen, our first hypothesis is that HIF, by means of the induction of one of its target genes, plays a central role in the clinical course of both pathologies and in particular, in the inflammatory response of the lung.



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ABSTRACTS SUBMISSION GUIDELINES

To submit an abstract, please follow the indications below

1. Click [here](#) to register for the Main Conference
 2. Select 'Yes' under "I am submitting an abstract".
 3. Read the guidelines below and send the abstract to consepoc@idipaz.es
- The first Author (presenter) must have been registered to the Conference before abstract submission.
 - All abstracts must be prepared, sent and presented in English (official language of the Conference).
 - First authors are expected to attend the meeting. Authors should not submit abstracts if they do not plan to attend the meeting.
 - All abstracts will be reviewed by the Scientific Committee. The first author will be notified by e-mail about acceptance or rejection of the submitted abstract.
 - Deadline: April 23rd 2015.
 - List of topics:
 - Hypoxia and Inflammation
 - Angiogenesis
 - Sleep apnea-hypopnea syndrome (SAHS)
 - Chronic obstructive pulmonary disease (COPD)
 - Length: The whole abstract must not exceed 300 words without including title, Authors and Co-Authors
 - Content of the abstract:
 - Title of the research project
 - Author & Co-authors (up to 5 co-authors). The presenter must be highlighted
 - Affiliation of each author & co-author
 - Structure of the text body of the abstract:
 - Hypothesis
 - Objectives
 - Methods
 - Results
 - Conclusions



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PROGRAM

8:30-8:45 REGISTRATION

8:45-9:00 WELCOME

9:00-11:00 SESSION I: "HYPOXIA AND INFLAMMATION"

CHAIRPERSON: SIMÓN MÉNDEZ

- 9:00-9:30 **"Carotid body stem cells and adaptation to hypoxia".**

José López Barneo, Instituto de Biomedicina de Sevilla (IBIS).

- 9:30-10:00 **"Effect of hypoxia on TAM metabolism: implications for cancers".**

Max Mazzone, VIB Vesalius Research Center, University of Leuven, Belgium.

- 10:00-10:30 **"Hypoxic metabolism in hematopoietic stem cell".**

Toshio Suda, Cancer Science Institute, National University of Singapore and IRCMS, Kumamoto University

- 10:30-11:00 DISCUSSION

11:00-11:30 COFFEE BRAK /POSTER SESSION

11:30-13:30 SESSION II: "ANGIOGENESIS"

CHAIRPERSON: JULIÁN ARAGONÉS

- 11:30-12:00 **"Resistance to anti-angiogenics in Cancer: To be or not to be Hypoxic".**

Oriol Casanova, Catalan Institute of Oncology – IDIBELL, Barcelona

- 12:00-12:30 **"Hypoxia and microglia, the innate immune system of the brain".**

Alberto Pascual, Instituto de Biomedicina de Sevilla (IBIS)

- 12:30-13:00 **"Hypoxia and inflammation in Pulmonary imaging".**

Jesús Ruiz-Cabello, CNIC, Centro Nacional de Investigaciones Cardiovasculares, Madrid.

- 13:00-13:30 DISCUSSION

13:30-15:00 LUNCH/POSTER SESSION



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15:00-17:00 SESSION III: "SLEEP APNEA – A CLINICAL MODEL OF INTERMITTENT HYPOXIA"

CHAIRPERSON: FRANCISCO GARCÍA RÍO

- **15:00-15:30 "Signalling pathways during intermittent hypoxia".**

Walter McNicholas, St. Vincent's University Hospital, School of Medicine and Medical Science, University College Dublin, Ireland.

- **15:30-16:00 "Learnings from animal models of sleep apnea".**

Ramón Farré, Unitat de Biofísica i Bioenginyeria, Facultat de Medicina, Barcelona.

- **16:00-16:30 "Sleep apnea, hypoxia and innate immune system".**

Carolina Cubillos-Zapata, IdiPAZ, Madrid.

- **16:30-17:00 DISCUSSION**

17:00-17:30 COFFEE BRAK / POSTER SESSION

17:30-19:30 SESSION IV: "CHRONIC OBSTRUCTIVE PULMONARY DISEASE – A CLINICAL MODEL OF CONTINUOUS HYPOXIA"

CHAIRPERSON: JULIO ANCOCHEA

- **17:30-18:00 "Mitochondrial dysfunction in COPD: role of hypoxia".**

Luis Puente Maestu, Hospital Gregorio Marañón, Madrid

- **18:00-18:30 "Learnings from animal models of emphysema".**

Germán Peces-Barba, IIS-FJD, Madrid.

- **18:30-19:00 DISCUSSION**

19:00 CLOSING REMARKS



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SCIENTIFIC ORGANIZERS:

- **Francisco García Río, Fundación para la Investigación Biomédica del Hospital Universitario la Paz (coordinator)**
- **Silvia Martín Puig, Centro Nacional de Investigaciones Cardiovasculares**
- **Julio Ancochea Bermúdez, Fundación para la Investigación Biomédica del Hospital Universitario de La Princesa**
- **Manuel Ortiz de Landázuri Busca, Fundación para la Investigación Biomédica del Hospital Universitario de La Princesa**
- **Julián Aragonés López, Universidad Autónoma de Madrid**
- **Simón Méndez Ferrer, Centro Nacional de Investigaciones Cardiovasculares**
- **Luis del Peso Ovalle, Universidad Autónoma de Madrid**
- **Jaime Feliu Batlle, Fundación para la Investigación Biomédica del Hospital Universitario la Paz**

For any further information related to the meeting please send an email to consepoc@idipaz.es or contact Ana Hernández +34 91 20 71 329

Meeting supported by ConsEPOC Consortium, funded by Comunidad Autónoma de Madrid and the European Union (*European Social Fund*).

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