



ISAC XXI Meeting 2020

Mal(adaptive) responses of peripheral chemoreceptors: O₂ dependent and independent mechanisms

Jun 29-Jul 2, 2020, Lisbon, PORTUGAL

29th June

13.00 - Registration and coffee

13:45 -14:00 Opening session –Emilia Monteiro

14:00 – 14:30 Celebrating 40 years of carotid body research in Portugal – Alexandre Ribeiro (Portugal)

14.30- 16.00 Plenary sessions

14.30-15.15 Emerging molecular and physiological perspectives in chronic intermittent hypoxia - Nanduri Prabhakar (USA)

15.15 - 16.00 Adaptive responses to chronic intermittent hypoxia: new contributions from clinical studies - tbd

16:00 – 16:30 Coffee-break

16.30 - 18.30 **Symposium- Chronic intermittent hypoxia and systemic arterial hypertension**

Chair: Davi Moraes

16.30 - 17.00 Emerging evidences from animal models - Emilia Monteiro (Portugal)

17.00 - 17.30 Emerging evidences from clinical studies – Jean Louis Pepin (France)

17.30 (4 oral presentations)

18.30-19.30 Poster presentations with wine and cheese (chaired by Maria Guarino)

30th June

9.00-13.00 Symposium - Chronic intermittent hypoxia and metabolic dysfunction

Chair: Cláudia Cavadas

9.00 - 9.30 Hypoxia and diabetes – Silvia Conde (Portugal)

9.30 - 10.00 Intermittent hypoxia and lipid metabolism – Seva Polotsky (USA)

10.00-10.30 Coffee

10.30 -12.30 (8 oral presentations)

12.30- 14.00 Lunch

14.00-16.30 Symposium- Chronic intermittent hypoxia and cancer

Chair: Tiago Oliveira de Sá

14.00-14.30 Evidence from animal models- Ana Obeso (Spain)

14.30- 15.00 Evidence from clinical studies – David Gozal (USA) (tbc)

15.00-16.30 (6 oral presentations)

16.30-18.00 Poster presentations and coffee (chaired by Andrea Porzionatto)

18.00-19.00: Scientific speed dating: networking and benchmarking - organized by Maria Guarino (ciTechCare, Leiria, Portugal) and by David Burns (University of Cork, Ireland)

19:00 Gala Dinner

1st July

9.00-10.45 Symposium - (Mal)adaptive responses to chronic sustained hypoxia: heart failure, COPD and altitude

Chair: Rodrigo del Rio

9.00-9.30 Hypoxia and Heart failure: Evidence from experimental models - Schultz (USA)

9.30-10.15 3 oral presentations

10.15-10.45 Coffee

10.45 -12.30

Chair: António Morais

10.45-11.15 *Genetic and epigenetic changes induced by chronic sustained hypoxia in experimental models - Rodrigo Iturriaga (Chile)*

11.15-11.45. *New insights in COPD: data from clinical studies (Portuguese Society of Pneumology guest)*

12.45-12.30 *3 oral presentations*

12.30-14.00 *Lunch*

14.00-16.30 **Symposium- O₂ independent mechanisms of chemoreceptor function**

Chair: Isabel Rocha

14.00-14.30 *Neurogenic hypertension and autonomic function - Julian Paton (New Zealand)*

14.30-15.00 *Role of carotid bodies in the management of salt overload - Eduardo Colombari (Brasil)*

15.00 – 15.30 *Neuronal mechanisms involving the carotid body in asthma – Richard Wilson (Canada)*

15.30-16.30 *(4 oral presentations)*

16.30-17.30 *Poster presentations and coffee (chair by Angela Gomez-Niño)*

17.30-18.30 *Meet the seniors: mentoring and emerging opportunities for young investigators (organized by Chris Wyatt)*

18.30 *ISAC society meeting*

2nd July

9.00-11.00 Symposium - Chemoreceptor function through the life span and sex differences

Chair: Aida Bairam

9.00-9.30 – *Comorbidities of hypoxia in neonates - Estelle Gauda (Canada)*

9.30-10.00 – *Sex differences in the control breathing – Richard Kinkead (Canada)*

10.00-11.00 *4 oral presentations*

11.00-11.30 *Coffee*

11.30 -13.00 Symposium Mechanisms of O₂ and CO₂ sensing and transduction

Chair: Jose Lopez-Lopez

11:30- 12:00 *O₂ sensing in the carotid body - Lopez Barneo (Spain)*

12.00-13.00 *4 oral presentations*

13.00 – 14.30 *Lunch*

14.30-16.00 *Symposium- Mechanisms of O₂ and CO₂ sensing and transduction*

Chair: Mark Evans

14.30 – 15:00 *The tripartite synapse – Colin Nurse (Canada)*

15.00-16.00 *(4 oral presentations)*

16.00 – 16.30 *Coffee*

16.30-18.00 *New insights in CO₂ control of breathing*

Chair: Andrew Holmes

16.30-17.00 *Gut microbiota and ventilatory response to hypercapnia – Ken O'Halloran (Ireland)*

17.00-18.00 *4 oral presentations*

18.00 *Closing session and Farewell*

3rd of July

Free Lisbon Museums pass - optative

Scientific Committee

Emilia C. Monteiro

Silvia V. Conde

Estelle Gauda

Rodrigo Iturriaga

Rodrigo del Rio

Machiko Shirata Grants to PhD and Post-doc Students

Estelle Gauda

DeCastro-Heymans-Neil-Award Committee

Ana Obeso

Camilo Di Giulio

Richard Wilson

Organizing Committee

Emilia C. Monteiro

Silvia V. Conde

Sofia A. Pereira

Joana F. Sacramento

Nuno Coelho

Maria João Correia

Bernardete F. Melo

Fátima Martins

Administrative Office

Teresa Bastos Lopes

Sofia Ramos