



Logroño (La Rioja)



21-22 April 2022

SSii 2022

Spanish Symposium on IGFs and Insulin 2022: Implications in Physiology and Disease

21-22 April 2022 – Logroño, Spain

Scientific programme

Thursday 21 (pm):

13:00 Arrival and check-in

14:00 Wellcome and introductory comments:

Excma. Sra. María Somalo, Consejera de Sanidad de La Rioja (conf. pendant)

Sr. D. Sergio Martínez Astola, Director Gerente de Fundación Rioja Salud

Dr. José Ramón Blanco, Research Director, CIBIR

Drs. José G. Pichel (CIBIR, Logroño; CIBERES-ISCI) and **Isabel Varela** (IIB-AS, CSIC/UAM, Madrid; CIBERER-ISCI), *SSii 2022* organizers. SEBBM video.

Session 1: IGF1R

14:30-16:10 Chairs: *Isabel Varela* (IIB-AS, CSIC/UAM) and *Andreas Höflich* (Institute for Farm Animal Biology, Dummerstorf, Germany)

14:30 **Control of IGF-1 Receptor signaling by cellular location**

Rosemary O'Connor (University College Cork, Ireland)

15:00 **Short-term starvation reduces IGF-1 levels to sensitize lung tumors to lung cancer immunotherapy**

Daniel Ajona (CIMA, Pamplona)

15:20 Break

15:30 **Implication of IGF1R signaling in respiratory pathologies**

José G Pichel (CIBIR, Logroño; CIBERES-ISCI)

15:50 **IGF1R is a mediator of sex-specific metabolism in mice: effects of age and high fat diet**

Patricia Pérez-Matute, (CIBIR, Logroño)

16:10-17:20 Coffee break and Poster session



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Session 2: IGFs

17:20-20:00 Chairs: José G Pichel (CIBIR, Logroño; CIBERES-ISCIH) and Francisco J Salgado (CIBUS, Univ. Santiago de Compostela)

17:20 **Insulin-like Growth Factor 1 Signaling in Mammalian Hearing**
Isabel Varela-Nieto (IIB-AS, CSIC/UAM, Madrid; CIBERER-ISCIH)

17:50 **Circulating IGF-I and interoception**
Ignacio Torres Alemán (Achucarro Basque Center for Neuroscience, Bizkaia)

18:10 **Retinal neuroinflammation: a new IGF-1 signaling perspective**
Ana Arroba (INIBICA/Hosp. Puerta del Mar, Cádiz)

18:30 Break

18:40 **Mechanisms of cancer prevention in congenital IGF1 deficiencies**
Haim Werner (Sackler School of Medicine, Univ. Tel Aviv, Israel). "On line participation"

19:00 **Brain IGF-I regulates hippocampal neurogenesis, synaptic plasticity, and sexual dimorphic behavior**
Carlos Vicario (Inst. Cajal, CSIC; Madrid)

19:20 **IGF-1 modulates astrocytic phagocytosis of neuronal debris via PI3K/p110 α**
Daniel Pinto (Inst. Cajal, CSIC, Madrid; CIBERFES-ISCIH)

19:40 **Lung organoids in IGF research**
Natalia Sánchez (Cytes Biotechnologies, IIS Aragón, Zaragoza)

20:10 Visit to a winery, wine tasting and dinner

Friday 22 (am)

Session 3: Insulin

8:30-11:00 Chairs: Ignacio Torres (Achucarro Basque Center for Neuroscience, Leioa, Bizkaia) and Patricia Pérez Matute (CIBIR, Logroño)

8:30 **Mouse models of insulin resistance and type 2 diabetes**
Manuel Benito (UCM, Madrid)

9:00 **Unraveling the role of Protein Kinase D2 in hepatic insulin sensitivity**
Patricia Rada (IIB-AS, CSIC-UAM, Madrid; CIBERdem-ISCIH)

9:20 **Insulin receptor activation by proinsulin preserves synapses and vision in retinitis pigmentosa**
Catalina Hernández-Sánchez (CIB-MS, CSIC, Madrid)



- 9:40** Break
- 9:50** **Impaired insulin and IGF-1 signaling affect brain mitochondria and redox homeostasis**
Paula Moreira (Center for Neuroscience and Cell Biology, Univ. of Coimbra, Coimbra, Portugal). "On line participation"
- 10:20** **The metabolic response to specific diets involves modifications in the circulating and central IGF systems**
Laura Frago (UAM, Madrid)
- 10:40** **The C. elegans insulin pathway: At the hub of the homeostasis**
Juan Cabello (CIBIR, Logroño)
- 11:00-12:10** Coffee break and Poster session

Session 4: IGFbps and PAPPa

12:10-13:20 Chairs: Rosemary O'Connor (University College Cork, Ireland) and Manuel Benito (UCM, Madrid)

- 12:10** **PAPP-A2 and short stature**
Jesús Argente (Hosp. Niño Jesús, IIS La Princesa/UAM, Madrid). "On line participation"
- 12:30** **IGF-ALS in Severe Allergic Asthma: Another member of the family to come into play**
Francisco J Salgado (CIBUS, Univ. Santiago de Compostela)
- 12:50** **Functional analysis of IGFbps in vertebrates**
Andreas Hoeflich (FBN, Institute of Genome Biology, Dummerstorf, Germany)

13:20-13:45 Conclusion and farewell

