

Wednesday 20 NOVEMBER 2019

11:30-12:00 Registration

12:00-12:15 Opening Ceremony

Manuel Sánchez. *General Manager.*

Carlos Diéguez. *Scientific Director.*

12:15-14:00 Symposium 1: Adipobiology at the crossroad of Obesity research

Chair: Marta Giralt

12:15 **M^a Jesús Moreno-Aliaga**, CIBEROBN Universidad de Navarra
Metabolic effects of omega-3 PUFA derivatives on adipose tissues and insulin sensitivity in obesity

12:45 **Sonia Fernández-Veledo**, Institut d'Investigació Sanitària Pere Virgili (IISPV).
Universitat Rovira i Virgili. Hospital Universitario de Tarragona Joan XXIII
Immunometabolism: Implications for obesity

13:15 **OC-1: Cairó et al. (#52)** Parkin controls brown adipose tissue adaptive plasticity in response to thermal adaptations and obesogenic diet.

13:30 **OC-2: Becerril et al. (#48)** Role of leptin in hepatic inflammation and extracellular remodelling via nitric oxide

13:45 **OC-3: Comás et al. (#16)** H2S-synthesising enzymes modulate cellular senescence and adipogenesis in human adipose-derived mesenchymal stem cells

14:00-15:45 Lunch y Posters

15:45-17:30 Symposium 2: Get nutrition moving - Diet-exercise interactions and other life factors

Chair: Fernando Fernández Aranda

15:45 **Pablo García-Rovés**. Facultad de Medicina y Ciencias de la Salud, Universitat de Barcelona. IDIBELL.
Effects of diet and exercise interventions on metabolic plasticity: Studies in preclinical models

16:15 **M^a Rosa Bernal López**. CIBEROBN. Instituto de Investigación Biomédica de Málaga (IBIMA).
Life style modification via Mediterranean diet (MedDiet) and physical activity in infantile populations

16:45 **OC-4: Cofán et al. (#28)** *Effects of a walnut-enriched diet for 2 years on circulating inflammatory biomarkers of atherosclerosis*

- 17:00 **OC-5: Mena et al. (#45)** Association Between dairy product consumption and hiperglucemia in an elderly population with metabolic síndrome
- 17:15 **OC-6: Hernández et al. (#71)** Mediterranean Diet improves thrombosis biomarkers in high cardiovascular risk individuals: a randomized controlled trial

17:30-18:00 Break

18:00-19:00 *PLENARY LECTURE 1*

Chairs: Carlos Diéguez / Gema Frühbeck

Geltrude Mingrone, Department of Internal Medicine, Catholic University of Rome. member of SAB CIBEROBN

Long term remission of type 2 diabetes after metabolic surgery and mechanisms of action

19:00-20:00 Timeslot for inter-group or program meetings

20:30 Dinner

Thursday 21 NOVEMBER 2019

9:00-11:00 **Symposium 3: Omic approaches in Nutrition and Obesity research**

Chair: María del Mar Malagón

- 9:00 **Lidia Daimiel.** Instituto IMDEA-Food (IMDEA Alimentación)
Nutritional modulation of the epigenome
- 9:30 **Ana Belén Crujeiras.** Molecular Endocrinology group – CHUS/IDIS
Genomics and Epigenomics in Obesity and Cancer
- 10:00 **OC-7: Perdices-Lopez et al. (#12)** Obesity-induced hypogonadism: Pathophysiological role of a novel hypothalamic miRNA/ Kisspeptin pathway and potential therapeutic implications
- 10:15 **OC-8: Martínez-Lacruz et al. (#57)** A polygenic risk score including olfactory receptor genes is strongly associated with the olfactory function and with cognitive performance in older subjects using Mendelian randomization
- 10:30 **OC-9: Gutiérrez et al. (#40)** Mucosa-associated microbiota in the jejunum of patients with morbid obesity: Alterations in states of insulin resistance and metformin treatment
Jejunal microbiota in morbid obesity
- 10:45 **OC-10: Palou et al. (#77)** Metabolomic approach in milk from moderate calorie-restricted rats during lactation: a potential link to the programming of a healthy phenotype in offspring

11:00-11:30 **Break**

11:30-13:30 **Symposium 4: Biomarkers in Nutrition and Obesity research**

Chair: Andreu Palou

- 11:30 **Catalina Picó.** CIBEROBN – Universitat Illes Balears
From classical to next-generation biomarkers in obesity and nutrition research
- 12:00 **Dolores Corella.** CIBEROBN – Universidad de Valencia
Predictive genetic markers
- 12:30 **OC-11: Camino et al. (#24)** Human obese white adipose tissue secretes functional depot-specific extracellular vesicles containing candidate obesity biomarkers
- 12:45 **OC-12: Martos-Moreno et al. (#33)** Late hyperinsulinemic response in the OGTT is associated to lower insulin sensitivity and a worse metabolic profile in obese children

13:00 **OC-13: Rangel et al. (#53)** Use of miRNAs to select a dietary model to prevent the development of type 2 diabetes mellitus in patients with cardiovascular disease: from the CORDIOPREV study

13:15 **OC-14: Gómez-Zorita et al. (#76)** Effects of resveratrol and pterostilbene on hepatic steatohepatitis

13:30-15:00 Lunch y Posters

15:00-16:00 PLENARY LECTURE 2

Chair: Jordi Salas-Salvado/Francisco Tinahones

Lluis Fajas Coll, Center for Integrative Genomics, CIG, Lausanne. member of SAB CIBEROBN

Metabolic pathways: highway to hell or stairway to heaven

16:00-18:00 Symposium 5: Cohort Studies at and around CIBEROBN

Chair: Estefanía Toledo

16:00 **Mercedes Gil-Campos**. CIBEROBN/HURS/IMIBIC/Universidad de Cordoba
The CORALS study-Seeking the risk factors for obesity research

16:30 **Miguel Ángel Martínez**. Universidad de Navarra & CIBEROBN
Revisiting PREDIMED and PREDIMED-Plus

17:00 **Javier Delgado Lista**. CIBEROBN/HURS/IMIBIC
The CORDIOPREV study: Results so far

17:30 Closing of the annual meeting