

# NEW APPROACHES AND CONCEPTS IN DIABETES AND OBESITY: LOOKING FOR ALTERNATIVE THERAPEUTIC TARGETS

Tarragona. April 6 - 7, 2018



DIABETES AND METABOLIC  
ASSOCIATED DISEASES  
RESEARCH GROUP



associació  
catalana  
de diabetis

HJ23

Hospital Universitari Joan XXIII  
ICS Camp de Tarragona



AstraZeneca 

*ciberobn*  
Centro de Investigación Biomédica en Red  
Fisiopatología de la Obesidad y Nutrición

*ciberdem*  
Centro de Investigación Biomédica en Red  
Diabetes e Intervención Metabólica Asociada

# **Committee**



## **ORGANIZING COMMITTEE:**

**Dr. Joan J. Vendrell**

(University Hospital Joan XXIII, IISPV, CIBERDEM)

**Dr. Sonia Fernández-Veledo**

(University Hospital Joan XXIII, IISPV, CIBERDEM)

## **ORGANIZING SECRETARIAT:**

Pere Virgili Health Research Institute. IISPV



# Programme

APRIL 6, 2018

## Afternoon Session

16:00h – 16:15h

Opening and Welcome Ceremony

**Dr. Joan J. Vendrell** (Scientific Director of the IISPV)

**Dr. Sonia Fernández-Veledo** (Co-head of the DIAMET group)

## SESSION 1: IMMUNOMETABOLISM IN OBESITY-RELATED DISEASES

**CHAIR: Sonia Fernández-Veledo** (IISPV, Ciberdem)

16:15h – 16:45h

### Inflammation and resolution in obesity and its comorbidities

**Joan Clarià** (Hospital Clínic, IDIBAPS)

**Dr. Joan Clarià.** Biochemistry and Molecular Genetics Service-Hospital Clínic. Department of Biomedicine-University of Barcelona.

16:45h – 17:15h

### Brown adipose tissue as a secretory organ: integrating metabolism and immunity

**Francesc Villarroya** (UB, IBUB, Ciberobn, IRSJD)

**Dr. Francesc Villarroya** is a professor of Biochemistry and Molecular Biology at University of Barcelona (UB) and group leader of the Laboratory of Research in Molecular and Cellular Biology of Adipose Tissue and Associated Pathologies. Areas of expertise: obesity, brown adipose tissue, and mitochondrial metabolism.

Laboratory of Research in Molecular and Cellular Biology of Adipose Tissue and Associated Pathologies

17:15h – 17:45h

### Endogenous hematopoiesis in adipose tissue as a crucial regulator of energy homeostasis

**Beatrice Cousin** (StromaLab, Toulouse, France)

**Dr. Beatrice Cousin** is a senior researcher at the CNRS. Areas of expertise: adipose tissue hematopoiesis and tissue integrity.

17:45h – 18:00h

General Discussion

18:00h – 18:15h

COFFEE BREAK

**SESSION 2: FACTORS IMPACTING DIABETES REMISSION AND GLYCEMIC CONTROL AFTER BARIATRIC SURGERY**

**CHAIR: Dr. José Miguel González-Clemente (Hospital Parc Taulí. Sabadell. Ciberdem)**

18:15h – 18:45h

**Metabolic surgery put to debate: short-term benefits**

**Nuria Vilarrasa (Hospital de Bellvitge, IDIBELL, Ciberdem)**

**Dr. Nuria Vilarrasa** is an endocrinologist and is responsible for the Obesity program at the Department of Endocrinology and Nutrition at Bellvitge University Hospital-IDIBELL. Areas of expertise: morbid obesity and metabolic surgery.

18:45h – 19:15h

**Metabolic surgery put to debate: long-term benefits**

**Geltrude Mingrone (Catholic University, Italy; King's College London, UK)**

**Prof. Geltrude Mingrone** is head of the Division of Obesity and Metabolic Disorders at Rome's Catholic University in Italy. She is a recognized international researcher in bariatric surgery, insulin resistance, insulin secretion and the study of glucose metabolism in humans.

19:15h – 19:45h

**Metabolic bariatric surgery as a treatment for obesity and obesity-related conditions: up to date**

**Josep Vidal (Hospital Clínic, IDIBAPS, Ciberdem)**

**Dr. Josep Vidal** is the head of the Endocrinology and Nutrition Service at Hospital Clínic and group leader of the Diabetes Lab at IDIBAPS. Areas of expertise: obesity and bariatric surgery.

19:45h – 20:00h

General Discussion

APRIL 7, 2018

Morning Session

**SESSION 3: IS OBESITY THE OIL THAT FEEDS THE FLAME IN CANCER?**

**Chair: Jorge J. Joven (Hospital U. Sant Joan de Reus, IISPV)**

9:00h – 9:30h

**Metformin 2.0: new light on a mysterious molecule**

**Javier A. Menéndez (IDIBGI)**

Dr. **Javier A. Menéndez** is the coordinator of the translational research unit and Head of the Molecular Oncology Lab at the Girona Biomedical Research Institute (IDIBGI). Areas of expertise: oncology and metabolism.

9:30h – 10:00h

**Anti-cancer genes to fight obesity**

**Pablo J. Fernández-Marcos (IMDEA-Food)**

Dr. **Pablo J. Fernández Marcos** is the head of the Bioactive Products and Metabolic Syndrome group at the Institute of Advanced Studies - IMDEA Food. Area of expertise: nutritional interventions, fasting metabolism, obesity and diabetes.

10:00h – 10:30h

**Obesity, diabetes and the risk of cancer in the EPIC-cohort**

**Antonio Agudo Trigueros (ICO, IDIBELL)**

Dr. **Antonio Agudo Trigueros** is the head of the Nutrition and Cancer Unit at the Catalan Institute of Oncology (ICO) and the Bellvitge Biomedical Research Institute (IDIBELL). Areas of expertise: cancer epidemiology, nutrition and public health.

10:30h – 10:45h

General Discussion

10:45h – 11:15h

COFFEE BREAK

**SESSION 4: MULTI-OMIC INTEGRATED DATA FOR OBESITY AND DIABETES RESEARCH**

**CHAIR: Antonio Zorzano (IRB, Ciberdem)**

11:15h – 11:45h

Epigenome-wide analysis in obesity research

Ana Belén Crujeiras (IDIS, CHUS, Ciberobn)

Dr. Ana B. Crujeiras is the head of the Epigenomics of Obesity Unit and group leader of Epigenomics in Endocrinology at the Santiago Health Research Institute (IDIS), Santiago University Hospital Complex (CHUS) and CIBERobn. Areas of expertise: epigenetics of obesity and Cancer.

11:45 h – 12:15 h

Proteomic studies on adipose tissue: a necessity for understanding obesity and obesity-related disorders

María del Mar Malagón (IMIBIC/UCO/HURS, Ciberobn)

Dr. María del Mar Malagón is a professor in Cell Biology at the University of Córdoba; Group leader of the Adipobiology Lab and head of the Section on Nutrition, Metabolism and Neuroendocrinology at the Maimónides Institute of Biomedical Research in Córdoba (IMIBIC), Córdoba, Spain. Areas of expertise: adipose tissue biology, proteomics, obesity, insulin resistance.

12:15 h – 12:45 h

Metabolomic profiling into the intricate relationship between obesity and type 2 diabetes

Cristina Andrés-Lacueva (UB, Ciberfes)

Dr. Cristina Andrés-Lacueva is a professor of Nutrition at University of Barcelona (UB) and group leader of Biomarkers and Nutritional and Food Metabolomics, belonging to UB and Ciberfes. Areas of expertise: food metabolomics, biomarkers and metabolic diseases.

12:45 h – 13:00 h

General Discussion

13:00 h -15:00 h

LUNCH

Afternoon Session

SESSION 5: STEM CELL-BASED STRATEGIES FOR THE TREATMENT OF DIABETES

CHAIR: Sonia Fernández-Veledo (IISPV, Ciberdem)

15:00 h – 15:30 h

Pancreatic progenitors: from the organ to the plate

**Meritxell Rovira (CMRB)**

**Dr. Meritxell Rovira** is a junior PI at the CMRB (Center of Regenerative Medicine in Barcelona). Areas of expertise: pancreas regeneration, pancreatic progenitors and regenerative medicine.

15:30 h – 16:00 h

Immunoregulatory properties of human adipose-derived stem cells: metabolic donor phenotype matters.

**Carolina Serena (IISPV, Ciberdem)**

**Dr. Carolina Serena** is a senior researcher at the IISPV. Areas of expertise: adipose-derived stem cells, obesity, Crohn's disease.

16:00 h – 16:30 h

Stem cell therapies in diabetes mellitus. Hypes and hopes

**Bernat Soria (Cabimer, Ciberdem)**

**Dr. Bernat Soria** is an extraordinary professor of Regenerative Medicine, Univ P de Olavide & chairman of the Dept. of Regeneration and Advanced Therapies. Andalusian Center for Molecular Biology & Regenerative Medicine, CABIMER, 41092 Seville and Ciberdem.

16:30 h – 17:00 h

COFFEE BREAK

**SESSION 6: CLUES TO MICROBIOME'S INFLUENCE ON METABOLIC DISEASE**

**CHAIR: Joan J. Vendrell (University Hospital Joan XXIII, IISPV, Ciberdem)**

17:00 h – 17:30 h

How changes in gut microbiota may influence obesity-related metabolic disturbances

**Koen Venema (Maastrich University)**

**Dr. Koen Venema** is a professor of Gut Microbiology at Maastricht University – Venlo campus; Center for Healthy Eating & Food Innovation. Areas of expertise: nutrition, microbiota, metabolism.

17:30 h – 18:00 h

Microbiota, brain and cognition

José Manuel Fernández Real (IDIBGI, Universitat de Girona, Ciberobn)

Dr. José M. Fernández-Real is a clinical endocrinologist with extensive experience in different fields of obesity and type 2 diabetes. He has published many works regarding the role of microbioma in metabolic diseases.

18:00 h – 18:30 h

Pan-omics examination of severe obesity

Manuel Ferrer (CSIC-IC)

Dr. Manuel Ferrer is a research scientist at the CSIC and group leader of the Systems Biotechnology lab. Areas of expertise: microbiome, biological-to-chemical-to-metabolic relationships.

**SESSION 7: CURRENT AND FUTURE TREATMENT TARGETS FOR TYPE 2 DIABETES AND OBESITY**

**CHAIR: Gema Frühbeck (Ciberobn)**

18:30 h – 19:00 h

Current clinical perspectives of diabetes treatment in the obese patient

Esteban Jodar (Hospital Quiron Salud)

Dr Esteban Jodar is the head of the endocrinology service at the University Hospital Quiron Salud in Madrid. He is an associate professor at the Faculty of Medicine of the European University of Madrid. Areas of expertise: nutrition, obesity.

19:00 h – 19:30 h

Weighing the risk. How are obesity and type 2 diabetes associated with increased risk of vascular disease?

Albert Lecube (Hospital Univesitari Arnau de Vilanova. IRB Lleida, Ciberdem)

Dr. Albert Lecube is the head of the Endocrinology Service at the Arnau de Vilanova University Hospital in Lleida. Areas of expertise: type 2 diabetes, cardiovascular disease.



19:30 h – 20:00 h

**GLP-1R/GCGR Dual Agonist Reduced Obesity by Increasing Energy Expenditure due to its Effects in Brown Adipose Tissue and Browning of White Fat**

**Ángela Martínez Valverde**

**(Instituto de Investigaciones Biomédicas Alberto Sols, CSIC-UAM, Ciberdem)**

**Dr. Ángela Martínez Valverde** is a Research Investigator from Consejo Superior de Investigaciones Científicas al Principal Investigator from CIBERDEM. Areas of expertise: molecular mechanisms of insulin resistance and type 2 diabetes mellitus, brown adipose tissue biology, non-alcoholic fatty liver disease.

20:00 h – 20:10 h

Closing Ceremony

**Dr. Joan J. Vendrell**

**Dr. Sonia Fernández-Veledo**

# General information

## DATES

April 6-7, 2018

## CONGRESS LANGUAGE:

English / Spanish

## CONGRESS VENUE

Palau Firal i de Congressos de Tarragona  
c/ Arquitecte Rovira, 2  
43001 Tarragona  
[www.palautarragona.com/es](http://www.palautarragona.com/es)  
[www.diametworkshop2018.com](http://www.diametworkshop2018.com)

## REGISTRATION

All registrations at [www.diametworkshop2018.com](http://www.diametworkshop2018.com)  
The workshop is free but places are limited, so registration is required.  
Coffee breaks and lunch are included.

**Deadline for registration: March 30 2018 (while places remain).**

Please fill the [registration form](#) and we will send you the confirmation.  
For further information or any queries, please email Rosa Flaquer  
([rosa@gotic-congres.com](mailto:rosa@gotic-congres.com))

## TECHNICAL SECRETARIAT:

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## ORGANIZING COMMITTEE:

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**Dr. Sonia Fernández-Veledo** (University Hospital Joan XXIII, IISPV, CIBERDEM).

The activity "New Approaches and Concepts in Diabetes and Obesity: Looking for Alternative Therapeutic Targets" has been accredited by the Consell Català de la Formació Continuada de les Professions Sanitàries (CCFCPS) for up to 1,6 credits.

TECHNICAL SECRETARIAT:



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