

Workshop 7 | Obesity-CIBEROBN

Organizers: Javier Salvador (Pamplona, Spain), José Manuel Fernández-Real (Girona, Spain), Manuel Tena-Sempere (Córdoba, Spain) and Francesc Villarroya (Barcelona, Spain)
Day: Wednesday 30 and Thursday 31 May and Friday 1 June
Time: Different schedules apply depending on day
Meeting room: MR12+13

Wednesday, 30 May

Joint Session Workshop 5 and Workshop 7 :

OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN

Bringing together experts in emerging omics techniques, with an emphasis on recent advances, applications in populations-based research, integration with nutrition, and translational applications.

Chairs : Frank Hu and Miguel A. Martínez-González

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| 08.30-09.00 | W5/W7-L1 Systems epidemiology, nutrition and omics
Frank B. Hu (Boston, USA) |
| 09.00-09.30 | W5/W7-L2 Methods in metabolomics profiling
Clary Clish (Cambridge, USA) |
| 09.30-10.00 | W5/W7-L3 Use of metabolomics and other omics in cohort studies of nutritional epidemiology
Elio Riboli (London, UK) |
| 10.00-10.30 | COFFEE BREAK |
| 10.30-11.00 | W5/W7-L4 Mediterranean diet, metabolomics and cardio-metabolic health
Miguel A. Martínez-González (Pamplona, Spain) |
| 11.00-11.15 | W5/W7-L5 Mediterranean diet, lipidomics and the risk of CVD and type 2 diabetes
Estefanía Toledo (Pamplona, Spain) |
| 11.15-11.30 | W5/W7-L6 Mediterranean diet, metabolomics and the risk of peripheral artery disease and heart failure
Miguel Ruiz-Canela (Pamplona, Spain) |
| 11.30-12.00 | W5/W7-L7 Metabolomics, proteomics and nutrition in the epidemiology of atrial fibrillation
Alvaro Alonso (Atlanta, USA) |
| 12.00-13.00 | LUNCH |

52nd Annual Scientific Meeting of the European Society for Clinical Investigation
"Precision medicine for healthy ageing"
Barcelona, May 30th to June 1st 2018

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Fisiopatología de la Obesidad y Nutrición



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- 13.00-13.30 **W5/W7-L8a | Small metabolites in the pathophysiology of the metabolic syndrome**
Chi-Hao Lee (Boston, USA)
- 13.30-14.00 **W5/W7-L8 | Virgin olive oil, wine, their urinary metabolites and metabolic pathways in cardiovascular prevention**
Rafael de la Torre (Barcelona, Spain)
- 14.00-14.30 **W5/W7-L9 | Microbiota and obesity**
J. Alfredo Martínez (Pamplona, Spain)
- 14.30-15.00 **W5/W7-L10 | Dietary patterns and cardio-metabolic and endocrine biomarkers**
Deirdre Tobias (Boston, USA)
- 15.00-15.30 **W5/W7-L11 | Using metabolomics for an improved assessment of dietary intake**
Shilpa Bhupathiraju (Boston, USA)
- 15.30-16.00 **W5/W7-L12 | Metabotyping for tailored dietary advice and precision nutrition**
Lorraine Brennan (Dublin, Ireland)
- 16.00-16.30 COFFEE BREAK
- 16.30-17.00 **W5/W7-L13 | Training and education for personalized nutrition**
Martin Kohlmeier (Chapel Hill, USA)
- 17.00-17.30 **W5/W7-L14 | Conclusions and closing remarks**
Frank B. Hu and Miguel A. Martínez-González
- 17:30-19:00 OPENING CEREMONY & LECTURE IN ROOM MR10+11
19:30-21:00 WELCOME RECEPTION COCKTAIL

Thursday, 31 May

Session 1 : Interplay of new metabolic factors in the pathophysiology and complications of obesity

Chairs : Francesc Vilarroya & José Manuel Fernández Real

08:30-09:00 **W7-L1 | Septins and its role on adipocyte pathophysiology and insulinresistance**

M. Mar Malagón (Córdoba, Spain)

09:00-09:30 **W7-L2 | Effects of diet intervention on the relationships between gut microbiota, obesity, inflammation and cardiovascular disease**

Marc Dumas (London, UK)

09:30-09:45 **W7-O1 | Cytoskeletal Transgelin 2 (TAGLN2) is associated with sex-dependent adipose tissue expandability**

Francisco José ORTEGA^{1,2}, José M MORENO-NAVARRETE^{1,2}, Josep M MERCADER³, María GÓMEZ-SERRANO⁴, Eva GARCÍA-SANTOS⁴, Jèssica LATORRE², Mònica SABATER^{1,2}, Rocío GUZMÁN^{1,5}, Manuel MACÍAS-GONZÁLEZ^{1,7}, María BUXO², José I RODRÍGUEZ-HERMOSA⁸, Ramon VILALLONGA⁹, Deborah NAON^{6,15}, Patricia BOTAS¹¹, Elias DELGADO¹¹, Dolores CORELLA^{1,12}, Remy BURCELIN¹⁰, Gema FRÜHBECK^{1,13}, Wifredo RICART^{1,2}, Rafael SIMÓ^{14,15}, Ignacio CASTRILLON-RODRÍGUEZ^{6,15}, María T MARTÍNEZ-LARRAD^{1,15}, Manuel SERRANO-RÍOS^{15,16}, Francisco J TINAHONES^{1,7}, Antonio VIDAL-PUIG¹⁷, María M MALAGÓN^{1,5}, Belén PERAL⁴, Antonio ZORZANO^{6,15}, José M FERNÁNDEZ-REAL^{1,2}

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- 09:45-10:00 **W7-O2 | Unbalanced proteostasis in obesity-related metabolic disease: the role of the preadipocyte**
Julia Sánchez-Ceinos^{1,2}, David Ovelleiro³, Raúl Luque^{1,2}, JustoPastor Castaño^{1,2}, Antonio Membrives⁴, José López-Miranda^{2,5}, Rocío Guzmán-Ruiz^{1,2}, MaríaMar Malagón^{1,2}
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- 10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES - MULTIDISCIPLINARY FOCUS SESSIONS IN ROOM MR10+11
12.30-14.30 LUNCH & POSTER VIEWING AND EVALUATION

Joint Session Workshop 4 and Workshop 7 :

Hepato-Gastroenterology / Lipids & Obesity-CIBEROBN

Chairs : P. Portincasa and M. Ávila

- 14:30-15:00 **W4/W7-L1 | Hepatokines in metabolic disease: Novel insights into FGF21 regulation by glucose**
Catherine Postic (Paris, France)
- 15:00-15:30 **W4/W7-L2 | Quality of life in autoimmune liver disease**
Piotr Milkiewicz (Warsaw, Poland)
- 15:30-16:00 **W4/W7-L3 | The burden of fatty liver disease in an aging population**
Elisabetta Bugianesi (Torino, Italy)
- 16:00-16:30 COFFEE BREAK
Chairs : P. Milkiewicz and E. Bugianesi
- 16.30-16.40 **W4/W7-O1 | Evidences for increased colonic permeability in obese subjects with fatty liver**
Ornella de Bari¹, Domenica Maria Di Palo¹, Agostino Di Ciaula², Emilio Molina-Molina¹, Raquel Lunardi Baccetto¹, Eric Mossel³, Piero Portincasa¹
¹Department of Biomedical Sciences & Human Oncology, University "Aldo Moro" of Bari Medical School, Bari, Italy, ²Division of Internal Medicine, Hospital of Bisceglie, Bisceglie, Italy, ³AB Analitica, Padua, Italy
- 16.40-16.50 **W4/W7-O2 | Serum paraoxonase-1 activity is inversely related to free thyroxine in euthyroid subjects: The PREVEND Cohort Study**
Robin Dullaart¹, Lynnda van Tienhoven-Wind¹, Stephan Bakker¹, Richard James¹, Rijk Gans¹, Dinke Gruppen¹
¹University , Groningen, Netherlands



- 16.50-17.00 **W4/W7-O3 | Extent of lipid accumulation affects biochemical, mechanical, and functional parameters of cultured hepatic cells**
Francesca Baldini¹, Alice Bartolozzi², Massimo Vassalli², Mohamad Khalil¹, Elena Grasselli¹, Adriana Voci¹, Piero Portincasa³, Laura Vergani¹
¹DISTAV, Dept. of Earth, Environment and Life Sciences, University of Genova, Italy, ²Institute of Biophysics, National Research Council, Genova, Italy, ³Dept. of Biomedical Sciences and Human Oncology, Medical School, University of Bari, Italy
- 17.00-17.10 **W4/W7-O4 | ApoJ/clusterin serum levels in patients with impaired glucose tolerance**
M.J. Meneses^{1,2}, Inês Sousa-Lima¹, Rita S Patarrão^{1,3}, Rogério T Ribeiro^{4,5}, Luís Gardete-Correia⁴, Rui Duarte^{4,6}, José Manuel Boavida⁴, Isabel Correia^{4,6}, Rita Andrade⁴, José Luís Medina⁶, John Jones⁷, João F Raposo^{1,4}, M. Paula Macedo^{1,4,5}
¹CEDOC, Chronic Diseases Research Centre, NOVA Medical School|Faculdade de Ciências Médicas, Universidade NOVA de Lisboa, Lisbon, Portugal, ²ProRegeM PhD Programme, NOVA Medical School/Faculdade de Ciências Médicas, Universidade Nova de Lisboa, Lisbon, Portugal, ³Instituto Gulbenkian de Ciência, Oeiras, Portugal, ⁴APDP Diabetes Portugal, Education and Research Center (APDP-ERC), Lisbon, Portugal, ⁵Department of Medical Sciences, Universidade de Aveiro, Portugal, ⁶Portuguese Diabetes Society, Lisbon, Portugal, ⁷CNC-Centro de Neurociências e Biologia Celular, Universidade de Coimbra, Portugal.
- 17.10-17.20 **W4/W7-O5 | Lipids levels and deep vein thrombosis short term outcome in early stages of chronic kidney disease**
Bogdan Augustin Chis¹, Ana Chis¹, Daniela Fodor¹, Dan Dumitrascu¹
¹Iuliu Hatieganu' University Of Medicine And Pharmacy, Cluj- napoca, Romania
- 17:30-19.00 POSTER VIEWING AND EVALUATION

Friday, 1 June

Session 2 : Obesity, ageing and cognitive dysfunction

Chairs : Manuel Tena & Javier Salvador

08:30-09:00 W7-L3 | Obesity, neuroinflammation and cognitive dysfunction

José Manuel Fernández-Real (Girona, Spain)

09:00-09:30 W7-L4 | Obesity, ageing and sarcopenia: pathophysiological interactions and impact on clinical practice

Simone Perna (Pavia, Italy)

09:30-09:45 W7-O3 | Type 2 diabetes and cognitive impairment in an older population with obesity and metabolic syndrome: baseline cross-sectional analysis of the PREDIMED-plus study

Núria Mallorquí-Bagué^{1,2}, Maria Lozano-Madrid^{1,2}, Estefanía Toledo^{2,3}, Dolores Corella^{2,4}, Jordi Salas-Salvadó^{2,5}, Aida Cuenca-Royo^{2,6}, Jesús Vioque^{7,8}, Dora Romaguera^{2,9}, Alfredo Martínez^{2,10}, Julia Wärnberg¹¹, Jose Lopez-Miranda^{2,12}, Ramón Estruch^{2,13}, Aurora Bueno-Cavanillas^{8,14}, Fernando Arós^{2,15}, Josep A. Tur Tur^{2,16}, Francisco J Tinahones^{2,17}, LuíS Serra-Majem^{2,18}, Vicente Martín^{8,19}, José Lapetra^{2,20}, Clotilde Vázquez^{2,21}, Xavier Pinto^{2,22}, Josep Vidal^{8,23}, Lidia Daimiel²⁴, Miguel Delgado-Rodríguez^{8,25}, Pilar Matía²⁶, Emilio Ros^{2,27}, Roser Granero^{1,28}, Pilar Buil-Cosiales^{2,3}, Rocío Barragan^{2,4}, Mònica Bulló^{2,5}, Olga Castañer^{2,6}, Miguel Ruiz-Canela^{2,3}, Andrés Díaz^{2,5}, Susana Jiménez-Murcia^{1,2,29}, Miguel A. Martínez-González^{2,3,30}, Rafael De la Torre^{2,6,31}, Fernando Fernández-Aranda^{1,2,29}

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- 09:45-10:00 **W7-O4 | Role of GDF11 in ageing, obesity, type 2 diabetes and thyroid status: A cross-sectional study**
Juan Añon-Hidalgo¹, Victoria Catalán^{1,2,3}, Amaia Rodríguez^{1,2,3}, Beatriz Ramírez^{1,2,3}, Camilo Silva^{2,3,4}, Juan C. Galofré⁴, Javier Salvador^{2,4}, Gema Frühbeck^{1,2,3,4}, Javier Gomez Ambrosi^{1,2,3}
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- 10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES - MULTIDISCIPLINARY FOCUS SESSIONS IN ROOM MR10+11
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Joint Session Workshop 4 and Workshop 7 :

Hepato-Gastroenterology / Lipids & Obesity-CIBEROBN

Chairs : M. Krawczyk and M. Fernández

- 14:30-15:00 **W4/W7-L4 | Amphiregulin: a novel player in the regulation of liver bile acids metabolism and protection in cholestasis**
Matías A. Ávila (Pamplona, Spain)
- 15:00-15:30 **W4/W7-L5 | More metabolic syndrome after cholecystectomy. Lessons from bile acids**
Piero Portincasa (Bari Italy)
- 15:30-15:40 **W4/W7-O6 | Junk score as a marker of poor adherence to Mediterranean diet. The 'Foie Gras' project at work in Southern Italy**
Raquel Lunardi Baccetto¹, Emilio Molina-Molina¹, Ornella de Bari¹, Domenica Maria di Palo¹, Paola Vitellio¹, Rosella Monaco¹, Piero Portincasa¹
¹Clinica Medica "A. Murri", Dept. of Biomedical Sciences and Human Oncology, Univ. of Bari, Italy
- 15:40-15:50 **W4/W7-O7 | Low levels of physical activity in a Mediterranean cohort: A real life scenario disclosed by the 'Foie Gras' project**
Emilio Molina-Molina¹, Raquel Lunardi Baccetto¹, Domenica Maria di Palo¹, Ornella de Bari¹, Paola Vitellio¹, Rosella Monaco¹, Piero Portincasa¹
¹Clinica Medica "A. Murri", Dept. of Biomedical Sciences and Human Oncology, Univ. of Bari, Italy
- 15:50-16:00 **W4/W7-O8 | Effect of host liver cell proliferation on homing and phenotype of transplanted hepatic stellate cells after partial hepatectomy in rats**
Aygul Shafigullina¹, Elvira Zaikina¹, Ekaterina Garanina¹, Angelina Titova¹, Mikhail Mavlikeev¹, Albert Rizvanov¹, Anisa Gumerova¹, Andrey Kiassov¹
¹Institute Of Fundamental Medicine And Biology, Kazan, Federal Univ., Kazan, Russian Federation
- 16:00-16:30 COFFEE BREAK
Chairs : P. Portincasa and M. Avila
- 16:30-17:00 **W4/W7-L6 | Circadian lipid metabolism and liver**
Mercedes Fernández (Barcelona, Spain)
- 17:00-17:30 **W4/W7-L7 | Fatty liver disease in non-obese individuals: prevalence, pathogenesis and treatment**
Marcin Krawczyk (Homburg, Germany)

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- 17:30-17:45 **W4/W7-O9 | Obesity-induced hepatic steatosis in mice is reverted by AAV9-mediated enhanced fatty-acid oxidation**
Dolors Serra¹, Minéia Weber¹, Fina Casas², David Sebastián³, Sandra Recalde¹, Joan F. Mir¹, Raquel Fucho¹, María Calderón-Dominguez¹, Paula Mera¹, Sebastián Zagmutt¹, M. Carmen Soler-Vázquez¹, Kevin Ibeas¹, Joan Carles Escola-Gil⁴, Vicenta Llorente⁴, Nuria Casals⁵, Antonio Zorzano³, Gemma Fabriás², Laura Herrero¹
¹Faculty of Pharmacy-Univ. de Barcelona, Spain, ²Inst. of Advanced Chemistry of Catalonia, Barcelona, Spain, ³Inst. for research in Biomedicine, Barcelona, Spain, ⁴Biomedical Research Inst. Sant Pau, Barcelona, Spain, ⁵Univ. Internacional de Catalunya, Sant Cugat del Vallés, Spain.
- 17:45-18:00 **W4/W7-O10 | 'The bigger, the better' or double trouble? - Obesity and COPD**
Ana Florica Chis¹, Bogdan Augustin Chis¹, Monica Pop¹
¹Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania, Cluj-napoca, Romania
- 18:00-18:30 POSTER PRIZES & CLOSING IN ROOM MR10+11