52nd Annual Scientific Meeting of the European Society for Clinical Investigation
“Precision medicine for healthy ageing”

Barcelona
May 30th to June 1st
2018

www.esci2018-barcelona.com
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Unique Barcelona!

ESCI comes back to Barcelona in 2018. This is the second time of getting together here to celebrate the Annual Scientific Meeting of the Society. This year the meeting comes with an important and novel theme “Precision medicine for healthy ageing” and it is full of first rated scientists and clinicians that will make possible three journeys of learning and scientific interaction. We have Prof Valentin Fuster, a Cardiology Legend, coming to open our meeting on Wednesday May 30th at 18:00 hours. On Thursday the Albert Struyvenberg Medal will be awarded, as well as the Young Basic Research Excellence Award and the Young Clinical Research Excellence Award. A novelty introduced this year is the ESCI BioArt Contest to award a biomedical image. The Common ESCI Program will have scientific sessions on mitochondrial function, nutrition, cancer, ischemia/reperfusion and ageing. The specific Workshops to be held this year are on Cardiology, Mitochondria, Phagocyte Biology and Hepatology that have traditionally been part of the ESCI Program and the new ones on Obesity, Omics and Precision Nutrition with the participation of the University of Navarra. Interestingly, for the first time the Cardiology Workshop has been prepared with the collaboration of CIBERCardiovascular (CIBERCV) Program and the Obesity Workshop with the participation of the CIBEROBN Program. These CIBER programs belong to the Spanish Network of Centers of Excellence in Cardiovascular Disease and Obesity and Nutrition, respectively, of the Health Institute Carlos III. The special format of the ESCI Annual Meetings encourages close contact between leaders in the field and young scientists, with few oral presentations and many poster displays. Our intention is to have an open forum for ideas, knowledge and exposure of disruptive innovative approaches. We hope that the scientific quality of the meeting will satisfy all the delegates coming to Barcelona.

Oh! Barcelona. What a magnificent opportunity to visit Barcelona you have. Since the last ESCI visit in 2001, Barcelona has evolved to even be a more magnificent, interesting and cool city. The young and famous like to come to Barcelona. All the same it is a melting pot for cultural, architectural and avant garde design. The intellectuals and history-driven visitors are as well at home. When you are finished with your scientific activity, there are absolute “must see” in Barcelona. One is the Basilica de la Sagrada Familia, a stunning cathedral of beautiful architecture, designed and planned by Antoni Gaudi, the founder of the Modernism in Catalonia. He is the architect of the Sagrada Familia, la Casa Batllo and La Pedrera among many other buildings in Barcelona. He took over the building project of La Sagrada Familia in 1883 and proposed a complete rethink of the design. According to the official website of the Sagrada Familia (www.sagradafamilia.org/en), Gaudi wanted to abandon the existing neo-gothic design in favor of one that was more monumental and innovative. His new design included the soaring towers. By the time of his death in 1926, a result of injuries incurred in a tram accident, only the first bell tower had been built. At present, 70% of the work has been completed and the goal is for the job to be finished by 2026. Another important landmark in Barcelona is the Historical Recint of the Hospital de La Santa Creu i Sant Pau, started in 1902 by Lluís Domènech i Montaner, who devised
an innovative hospital based on isolated pavilions linked by underground passages, in the Modernist style. I work in this modernist, beautiful and unique Hospital. In 1978, UNESCO catalogued the Hospital as UNESCO World Heritage Site. After eighty years of healthcare activity in the Modernist complex, in 2009 the Hospital de la Santa Creu i Sant Pau moved to new premises built in the north part of the campus. The historic Domènech i Montaner pavilions are now open for visit and hold different activities for the community. In the magnificent façade of the entrance to the hospital, there are four sculptures of the famous artist Pablo Gargallo, representing Faith, Charity, Hope and Work. Do not miss it.

The first **Hospital de la Santa Creu**, a charity hospital founded in 1401, is in the downtown picturesque and ethnically diverse Raval district. It is one of the most important examples of Catalan Civil Gothic architecture of the 15th century. It is now the home of the **National Library of Catalonia**, an Art School and the Institute of Catalan Studies. The famous **Palau de la Musica**, also by Domenech i Montaner, is another “must see”.

The second part of the information on Barcelona, we want to pass to you goes to the nightlife, shopping and fiesta. You may have to leave this part for another visit!! However you will have just a little taste of it if you join us at the ESCI-Congress party that will be held in a famous fish restaurant by the beach. Yes, I said beach, because in Barcelona we have the sea, the harbour and also beautiful beaches just at our feet. The party will have excellent food –a hallmark of Barcelona, and music. Do not miss it. For more information about places to visit in Barcelona, see: www.barcelonaturisme.com/wv3/en/

We hope that you will actively contribute to the overall and scientific success of the meeting by presenting your work and sharing your knowledge with us. We will welcome you at the ESCI2018 Congress Venue, the well-located Barceló Sants Hotel, with efficient and modern services nearby Plaza de España and Montjuic.

We have prepared this ESCI Annual Meeting 2018 with the most open mind and attitude towards first science and second first lively enjoyment and healthy divertimento.

We wait for you here in Barcelona.

Profs. Gema Frühbeck* & Lina Badimon#

* Head of the Metabolic Research Laboratory, Dept. of Endocrinology & Nutrition, Clínica Univ. de Navarra, University of Navarra, IdiSNA, CIBEROBN-IScIII, Pamplona, Spain

# Director of the Cardiovascular Program ICCC - Institut de Recerca, IIB Sant Pau, Hospital de la Santa Creu i Sant Pau, CIBERCV-IScIII, Barcelona, Spain
Committees and Organisers

ESCI 2018 Local Organisers

Prof. Lina Badimon, B. Pharm, MSc, PhD, FESC, FAHA
DIRECTOR OF THE CARDIOVASCULAR PROGRAM ICCC - INSTITUT DE RECERCA, IIB-SPAU,
HOSPITAL DE LA SANTA CREU I SANT PAU, CIBERCV-ISCIII, BARCELONA, SPAIN

Prof. Gema Frühbeck, RNutr, MD, PhD
DEPT. OF ENDOCRINOLOGY & NUTRITION, METABOLIC RESEARCH LABORATORY, CLÍNICA
UNIV. DE NAVARRA, UNIVERSITY OF NAVARRA, IDISNA, CIBEROBN-ISCIII, PAMPLONA, SPAIN

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Prof. Piero Portincasa, MD, PhD (Bari, Italy)

Councillors
Prof. Gema Frühbeck, MD, PhD (Navarra, Spain)
Fabrizio Montecucco, MD, PhD (Genoa, Italy)

ESCI Central Office
Contacts: Marliese Greven and Debbie Barneveld Binkhuijsen
University Medical Centre
Utrecht, The Netherlands
Phone +31 887 558 787
esci@umcutrecht.nl | www.esci.eu.com

ESCI 2018 Technical Secretariat
Bco Congresos
Pl. Europa, 17-19 1st floor
08908 L’Hospitalet del Llobregat, Barcelona, Spain
Phone +34 93 882 38 78
esci2018@bcocongresos.com
Workshops’ Organisers

**Workshop 1 | Phagocyte biology**
Amiram Ariel (Haifa, Israel)
Joan Clària (Barcelona, Spain)

**Workshop 2 | Mitochondria, aging and disease**
Paulo Oliveira (Coimbra, Portugal)
Carlos Palmeira (Coimbra, Portugal)
José Viña (Valencia, Spain)
Mariusz Wieckowski (Warsaw, Poland)

**Workshop 3 | Cardiology-CIBERCV**
Lina Badimon (Barcelona, Spain)
Hendrik Nathoe (Utrecht, The Netherlands)
Fabrizio Montecucco (Genoa, Italy)
Francisco Fernández-Avilés (Madrid, Spain)

**Workshop 4 | Hepato-Gastroenterology/Lipids**
Piero Portincasa (Bari, Italy)
Matías Ávila (Pamplona, Spain)

**Workshop 5 | OMICS, advances, applications and translations in nutrition and epidemiology**
Miguel Ángel Martínez (Pamplona, Spain)
Frank Hu (Boston, USA)

**Workshop 6 | Precision nutrition**
J. Alfredo Martínez (Pamplona, Spain)
Dolores Corella (Valencia, Spain)
Miguel Ángel Martínez (Pamplona, Spain)

**Workshop 7 | Obesity-CIBEROBN**
Javier Salvador (Pamplona, Spain)
José Manuel Fernández-Real (Girona, Spain)
Manuel Tena-Sempere (Córdoba, Spain)
Francesc Villarroya (Barcelona, Spain)
Information for authors

Invited speakers and oral presentations

Speakers and presenters will not be able to use their personal computers to present slides at ESCI 2018. All PowerPoint presentations must be handed in advance at the Speakers Ready Room. All presentations are loaded into a handling system that will store and distribute your presentation to the session room in time for your session.

All PowerPoint presentations should be handed preferably the day before or at least 2-3 hours before the session starts on the session day. Please secure sufficient time to deliver your slides to the Speakers Ready Room. Keep in mind that mornings and lunch breaks are very busy, as many of your colleagues will be uploading slides as well.

Speakers Ready Room

The staff of the Speakers Ready Room will load your presentation into the system so that it will be available on the computer in your session room when you come to speak. Please preview your presentation carefully on the Speakers Ready Room computer assigned by the staff before the final sign off. If you are making more than one speech during the Congress, you may upload all your presentations at the same time and they will be sent to their corresponding session room at the time of your sessions.

The Speakers Ready Room is located in Room MR15. Opening hours:
Wednesday, 30 May 08.00-18.00
Thursday, 31 May 08.00-18.00
Friday, 1 June 08.00-18.00

Speakers and presenters should make sure all fonts appear as expected and all sound/video clips are working properly before they leave the Speakers Ready Room. Proper identification is required in order to submit a presentation and also to upload, preview and edit files in the Speakers Ready Room. Please check in with the Congress staff on arrival in the room. Kindly note that storage devices (USB Memory Sticks, CDs, DVDs, etc.) will not be returned if left behind, please ensure that devices are collected before the close of the Congress, after which they will be destroyed.

Slide format

The PowerPoint handling and distribution system is optimized for MS PowerPoint 2016 (Office 2016) and PDF (Adobe Acrobat) files. Note that the uploading of DVD-Movies is not supported. The supported data media are CD, DVD (as data storage media) and USB memory stick. All necessary files, including the movie files, must be on the data media. Presentations can also be taken off speaker’s notebooks at the Speakers Ready Room.
Please only use Latin based fonts. If special fonts are needed, they should be stored as ‘embedded fonts’ within the presentation (file > save as ‘name of presentation’ and under ‘tools-save options’ mark the checkbox ‘embed true type fonts’ and select ‘embed all characters’).

Presentations should be saved as ppt, pptx (PowerPoint) orpps, ppsx (PowerPoint Slideshow) -file and movies as separate files on the data media. When using mathematical symbols please use those, which are available under Latin fonts Unicode or DOS: Western Europe). These can be shown without any problems in Office 2016. The presentation computers and projectors will be set up and optimized for 16:9 aspect ratio-full HD (1920x1080) in all meeting rooms. As format for embedded movies, MP4 movies are preferred, but may also be avi, wmv.

**Posters**

Posters will be displayed in the exhibition and poster area, room MR09, and in the Orbital Shuttle hall located next to meeting room MR12, on the same floor.

Each poster will be only displayed the day of the assigned poster session. Authors are kindly requested to be available for discussion during the designated session. Posters should be installed in the morning and removed after the last session of the day. Left over posters will be thrown away. Material to fix the posters on the panels will be available in the poster area.

<table>
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<tr>
<th>Poster session</th>
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<tr>
<td>Omics posters*</td>
<td>Wednesday 30, 12.00-13.00</td>
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<td>Poster session 1</td>
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* New poster session (Omics only).

Poster presentations are listed and numbered in this final programme. The same numbers are used for numbering the poster boards. The final reference number of the poster identifies the poster board and the session day. For example, P023-T means poster panel number 23 and session day Thursday (T); P023-F means poster panel number 23 and session day Friday (F). Please refer to the next page for further information.

The maximum size of the poster must be 90 cm wide and 120 cm high portrait and must include the title, authors, affiliations and contact address and email. The official language of the conference is English. It is recommended to use font size 24 point to ensure it is legible.
Posters by theme

W1 | Phagocyte biology  Poster session 1  P001-T to P020-T
W1 | Phagocyte biology  Poster session 2  P021-T to P035-T
W2 | Mitochondria, ageing and disease  Poster session 1  P036-T to P055-T
W2 | Mitochondria, ageing and disease  Poster session 2  P056-T to P072-T
W2 | Mitochondria, ageing and disease  Poster session 3  P001-F to P034-F
W3 | Cardiology-CIBERCV  Poster session 1  P073-T to P102-T
W3 | Cardiology-CIBERCV  Poster session 2  P103-T to P128-T
W3 | Cardiology-CIBERCV  Poster session 3  P035-F to P068-F
W4 | Hepato-Gastroenterology/Lipids  Poster session 3  P069-F to P090-F
W5 | Omics *  Poster session 2  P129-T to P161-T
W6 | Precision nutrition  Poster session 3  P091-F to P099-F
W7 | Obesity-CIBEROBN  Poster session 1  P162-T to P191-T
W7 | Obesity-CIBEROBN  Poster session 3  P100-F to P125-F
W9 | Miscellaneous Medical Topics  Poster session 3  P126-F to P142-F

* Omics posters will be displayed on Wednesday 30 May instead of Thursday 31 May.

Posters by session

W1 | Phagocyte biology  Poster session 1  P001-T to P020-T
W1 | Phagocyte biology  Poster session 2  P021-T to P035-T
W2 | Mitochondria, ageing and disease  Poster session 1  P036-T to P055-T
W2 | Mitochondria, ageing and disease  Poster session 2  P056-T to P072-T
W2 | Mitochondria, ageing and disease  Poster session 3  P001-F to P034-F
W3 | Cardiology-CIBERCV  Poster session 1  P073-T to P102-T
W3 | Cardiology-CIBERCV  Poster session 2  P103-T to P128-T
W3 | Cardiology-CIBERCV  Poster session 3  P035-F to P068-F
W4 | Hepato-Gastroenterology/Lipids  Poster session 3  P069-F to P090-F
W5 | Omics *  Poster session 2  P129-T to P161-T
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W7 | Obesity-CIBEROBN  Poster session 3  P100-F to P125-F
W9 | Miscellaneous Medical Topics  Poster session 3  P126-F to P142-F

Omics posters  Poster session  On display
Poster session 1  Wednesday 30, 12.00-13.00  Wednesday 30, 08.00-19.00
Poster session 2  Thursday 31, 12.30-14.30  Thursday 31, 08.00-19.00
Poster session 3  Thursday 31, 17.30-19.00  Thursday 31, 08.00-19.00
Poster session 3  Friday 1, 12.30-14.30  Friday 1, 08.00-18.30
Accreditation

Accreditation statement

The 52nd Annual Scientific Meeting of European Society for Clinical Investigation (ESCI), Barcelona, Spain, 30/05/2018-01/06/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME) with 19 European CME Credits (ECMEC). The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

Credit designation statement

The 52nd Annual Scientific Meeting of ESCI is designated for a maximum of 19 European CME credits (ECMECs). Each attendee should claim only those hours of credit that he/she actually spent in the educational activity.

Claiming CME credits

The EACCME credit system is based on 1 ECMEC per hour (with a maximum of 8 ECMECs per day). Please submit the UEMS-EACCME Evaluation Form (available in the congress website esci2018-barcelona.com after the congress) in order to receive the corresponding UEMS-EACCME Certificate.

Agreement with other medical associations

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 CreditsTM. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities. Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Disclosure

All speakers and chairpersons participating in the congress have disclosed potential conflict of interest that might cause a bias in the presentations. The Organising Committee is responsible for ensuring that all potential conflict of interest relevant to the programme are declared to the audience.
### Programme-at-a-glance

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**Workshop 5/7**
- **Joint Session**
- OMICS & Obesity-CIBEROBN

**Coffee-break**
- OMICS & Obesity-CIBEROBN only

**Satellite Symposia**
(see page 132)

**Workshop 1**
- Phagocyte biology
  - Session 1: Movement in vivo and in vitro
  - Session 1: Technology focus

**Workshop 2**
- Mitochondria, ageing and disease

**Workshop 3**
- Cardiology-CIBERCV
  - continued ...

**Session 1**
- Phenotyping, genotyping and risk stratification

**Session 2**
- Perspectives - I

**Opening Ceremony**

**Lecture**
- Prof. Valentín Fuster

**Welcome cocktail at the Exhibition area** (Room MR09)
# Programme-at-a-glance

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<th>Thursday, 31 May 2018</th>
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## Programme-at-a-glance

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Scientific programme

Wednesday, 30 May

08.30-10.00  Workshop  |  See specific Workshop section  |  Room MR12+13
W5|W7 Joint Session: OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN

10.00-10.30  COFFEE BREAK (W5|W7 attendees only)  |  Room MR09

10.30-12.00  Workshop  |  See specific Workshop section  |  Room MR12+13
W5|W7 Joint Session: OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN

11.00-12.30  Satellite Symposia (see page 132)
12.00-13.00  LUNCH (W5|W7 attendees only)  |  Room MR09

13.00-16.00  Workshop  |  See specific Workshop section  |  Room MR12+13
W5|W7 Joint Session: OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN

13.30-16.00  Workshops  |  See specific Workshop section for more details
W1 Phagocyte biology (Phagocyte movement in vivo and in vitro)
W2 Mitochondria, aging and disease (Technology focus session)
W3 Cardiology-CIBERCV (Phenotyping, genotyping and risk stratification)

16.00-16.30  COFFEE BREAK  |  Room MR09

16.30-17.30  Workshops  |  See specific Workshop section for more details
W1 Phagocyte biology (Phagocyte fate during inflammation & homeostasis)
W2 Mitochondria, aging and disease (Technology focus session)
W3 Cardiology-CIBERCV (Perspectives in cardiology-I)
W5|W7 Joint Session: OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN

17.30-18.00  OPENING CEREMONY  |  Room MR10+11
18.00-18.45  OPENING LECTURE  |  Room MR10+11
Chairs: Lina Badimon and Hendrik Nathoe

The scientific basis of health through imaging, omics and behaviour
Key note speaker: Valentín Fuster (Zena and Michael A. Wiener Cardiovascular Institute, Icahn School of Medicine at Mount Sinai, New York, USA; and Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain)

19.00-19.45  WELCOME COCKTAIL  |  Room MR09
19.45-20.45  Champions League in Internal Medicine  |  Room MR07+08
Chairs: Piero Portincasa and Javier Salvador
Thursday 31 May

08.30-10.00 Workshops | See specific Workshop section for more details
W1 Phagocyte biology (Phagocytes in inflammation and its resolution)
W2 Mitochondria, aging and disease (Mitochondria in disease pathology)
W3 Cardiology-CIBERCV (Atrial fibrillation: Innovative approaches to diagnosis and therapy)
W7 Obesity-CIBEROBN (Obesity, ageing and cognitive dysfunction)

10.00-10.30 COFFEE BREAK | Room MR09

10.30-12.30 COMMON ACTIVITIES: 2018 ESCI Awards | Room MR10+11
Chairs: Hendrik Nathoe, Jean-Philippe Haymann, Paulo Oliveira, Fabrizio Montecucco and John Ioannidis

10.30-11.00 Albert Struyvenberg Medal
Piero Portincasa (Bari, Italy)

11.00-11.20 Young Basic Research Excellence Award
Miguel López (Santiago de Compostela, Spain)

11.20-11.40 Young Clinical Research Excellence Award
Victoria Catalán (Pamplona, Spain)

11.40-11.55 Best Basic Research EJCI Article 2017
Robin P.F. Dullaart (Groningen, The Netherlands)

11.55-12.10 Best Clinical Research EJCI Article 2017
Roberto Latini (Milan, Italy)

12.10-12.20 Most Cited EJCI Article 2016

12.20-12.30 ESCI BioArt Award (Best Biomedical Images Contest)

12.30-14.30 LUNCH & POSTER VIEWING (Poster session 1) | Poster areas

14.30-16.00 Workshops | See specific Workshop section for more details
W1 Phagocyte biology (Phagocytes in the clearance of apoptotic debris)
W2 Mitochondria, aging and disease (Mitochondria in disease pathology)
W3 Cardiology-CIBERCV (Heart failure: Tailoring therapeutic Strategies and Electrophysiology)
W4|W7 Joint Session: Hepato-Gastroenterology/Lipids & Obesity-CIBEROBN

16.00-16.30 COFFEE BREAK | Room MR09

16.30-17.30 Workshops | See specific Workshop section for more details
W1 Phagocyte biology (Cytokines and chemokines in phagocyte function)
W2 Mitochondria, aging and disease (Mitochondria in disease pathology)
W3 Cardiology-CIBERCV (Perspectives in cardiology-II)
W4|W7 Joint Session: Hepato-Gastroenterology/Lipids & Obesity-CIBEROBN

17.30-19.00 POSTER VIEWING (Poster session 2) | Poster areas

19.45 Bus transportation from the hotel venue to Congress dinner
20.30 Congress dinner | Restaurant La Barca del Salamanca (see page 125)
Friday 1 June

08.30-10.00  **Workshops**  |  See specific Workshop section for more details
W1 Phagocyte biology (Phagocytes in liver and kidney disease I)
W2|W4 Joint Session: Mitochondria, aging and disease & Hepato-Gastro-enterology/Lipids
W3 Cardiology-CIBERCV (Targeting inflammation, lipids & immunomodulation)
W7 Obesity-CIBEROBN (Obesity, ageing and cognitive dysfunction)

10.00-10.30  COFFEE BREAK |  **Room MR09**

10.30-12.30  **COMMON ACTIVITIES:**
Multidisciplinary focus sessions |  **Room MR10+11**
Chairs: Jean-Philippe Haymann and Fabrizio Montecucco

10.30-10.50  **Mitochondrial ROS and Ca2+ homeostasis in injury and cardiac protection**
Fabio di Lisa (Padova, Italy)

10.50-11.10  Nutrition, aging and liver disease
Ina Bergheim (Department of Nutritional Sciences, Molecular Nutritional Science, University Vienna, Austria)

11.10-11.30  Precision medicine in cancer: novel innate immune checkpoint and the prediction of patient’s response
Angel Porgador (Ben-Gurion University, Beer Sheva, Israel)

11.30-12.00  Limiting reperfusion injury in patients with acute myocardial infarction: not yet but close
David García-Dorado (Cardiology Department - CIBERCV, University Hospital Vall d’Hebron, Barcelona, Spain)

12.00-12.30  Telomerase activation as a therapeutic strategy for treatment of age-related diseases
María A. Blasco (Spanish Nat. Cancer Centre CNIO, Madrid, Spain)

12.30-14.30  LUNCH & POSTER VIEWING (Poster session 3) |  **Poster areas**

14.30-16.00  **Workshops**  |  See specific Workshop section for more details
W1 Phagocyte biology (Phagocytes in liver and kidney disease II)
W2 Mitochondria, aging and disease (Mitochondria in aging-associated-diseases)
W3 Cardiology-CIBERCV (Advances in the resolution of I/R injury: Bench to Bedside)
W4|W7 Joint Session: Hepato-Gastroenterology/Lipids & Obesity-CIBEROBN
W6 Precision nutrition (Methodologies for precision nutrition)

16.00-16.30  COFFEE BREAK |  **Room MR09**
Workshops | See specific Workshop section for more details
W1 Phagocyte biology (Environmental control of macrophage differentiation)
W2 Mitochondria, aging and disease (Mitochondria in aging-associated-diseases)
W3 Cardiology-CIBERCV (Advances in the resolution of I/R injury: Bench to Bedside)
W4|W7 Joint Session: Hepato-Gastroenterology/Lipids & Obesity-CIBEROBN
W6 Precision nutrition (Precision nutrition applications)

POSTER PRIZES | Room MR10+11
Chairs: Jean-Philippe Haymann, Piero Portincasa and Paulo Oliveira

AND CLOSING CEREMONY | Room MR10+11
Chairs: Lina Badimon, Gema Frühbeck and Hendrik Nathoe
Workshop 1 | Phagocyte biology

Wednesday, 30 May

Session 1: Phagocyte movement in vivo and in vitro | Room MR07+08
Chairs: Steffen Jung and Barbara Walzog

13:30-13:55
W1-L1 | The mesenchymal migration of macrophages is a novel target in cancer immunotherapy
Isabelle Maridonneau-Parini (Toulouse, France)

13:55-14:20
W1-L2 | The fate and functions of lung vascular neutrophils
Bryan Yipp (Calgary, Canada)

14.20-14.45
W1-L3 | How do the mechanical properties of the nuclear lamina affect granulocyte transendothelial migration and crossing through collagen barriers?
Ronen Alon (Rehovot, Israel)

14:45-15:10
W1-L4 | The biology of tissue-infiltrating neutrophils
Andrés Hidalgo (Madrid, Spain)

15:10-15:30
W1-O1 | Neutrophil swarms delay the growth of microbe clusters
Daniel Irimia

15:30-15:45
W1-O2 | Perivascular macrophages regulate blood flow following tissue damage
Evelina Vågesjö, Cédric Seignez, Gustaf Christoffersson, Carmen Herrera-Hidalgo, Antoine Giraud, Olle Korsgren, Helene Rundqvist, Magnus Essand, Lena Holm, Randall Johnson, Mia Phillipson

1Massachusetts General Hospital, Harvard Medical School, Boston, United States

1Medical Cell Biology dept, Biomedical Center, Uppsala University, Uppsala, Sweden
2Immunology, Genetics and Pathology dept, Biomedical Center, Uppsala University, Uppsala, Sweden
3Cell and Molecular Biology dept, Karolinska Institut, Sweden
4Physiology, Development and Neuroscience dept, University of Cambridge, United Kingdom
15:45-16:00 **W1-O3 | Tumour eradication by IgA induced neutrophils swarming**
Niels Heemskerk¹, Cornelis W. Tuk¹, Marco de Donatis¹, Suzanne Lissenberg-Thunnissen², Robin Temming³, Arthur Bentlage³, Celine Sewnath¹, Marcella de Boer¹, Marijn Bögels¹, Jantine E. Bakema³, Gestur Vidarsson², Marjolein van Egmond¹
¹Vu University Medical Center, Department Of Molecular Cell Biology And Immunology, Amsterdam, Netherlands, ²Department of Experimental Immunohematology, Sanquin Research and Landsteiner Laboratory, Academic Medical Center, Amsterdam, Nederland, ³Department of Otolaryngology/Head-Neck Surgery, VUMC, Amsterdam, Nederland

16:00-16:30 COFFEE BREAK

**Session 2**: Phagocyte fate during inflammation and homeostasis | Room MR07+08
Chairs: Kodi Ravichandran and Timo van den Berg

16:30-16:55 **W1-L5 | The Janus faced gladiator: neutrophils in sterile inflammation and autoimmunity**
Markus Hoffmann (Erlangen, Germany)

16:55-17:15 **W1-O4 | Macrophages are major cells in IL-1β-induced suppression of anti-tumor immunity**
Ron Apte¹, Irena Kaplanov¹, Yaron Carmi², Rachel Kornetsky¹, Elena Voronov¹
¹Ben Gurion University, Beer Sheva, Israel, ²Tel Aviv University, Tel Aviv, Israel

17:15-17:30 **W1-O5 | Immune complex-induced neutrophil apoptosis is separate from phagocytosis induced cell death**
Utsa Karmakar², Julia Chu¹, Sonja Vermeren¹
¹University of Edinburgh, Edinburgh, United Kingdom

17:30-19:00 OPENING CEREMONY & LECTURE IN ROOM MR10+11
Thursday, 31 May

Session 3: Phagocytes in inflammation and its resolution | Room MR07+08
Chairs: Andrés Hidalgo and Attila Mocsai

08:30-08:55
W1-L6 | Phagocytosis-induced neutrophil apoptosis and resolution of inflammation
Janos Filep (Montreal, Canada)

08:55-09:20
W1-L7 | Metabolic regulation of neutrophils during inflammation
Tsvee Lapidot (Rehovot, Israel)

09:20-09:35
W1-O6 | Role of Norbin, a GPCR-Adaptor and Regulator of P-Rex1, in Neutrophil-Dependent Immunity
C. Pantarelli¹, D. Pan¹, A.K. Stark¹, H.C. Welch¹
¹Babraham Institute, Cambridge, United Kingdom

09:35-09:50
W1-O7 | Activated neutrophils suppress T lymphocyte proliferation: mechanisms unraveled
Cathelijn Aarts², I.H. Hiemstra¹, E.P. Béguin², S. Bouchmal¹, M. van Houdt¹, M.H. Janssen¹, F.P.J. van Alphen³, A.B. Meijer³, T.K. van den Berg¹, T.W. Kuijpers¹,²
¹Department of Blood Cell Research, Sanquin Research and Landsteiner Laboratory, AMC, University of Amsterdam, Amsterdam, Netherlands, ²Department of Plasma proteins, Sanquin Research and Landsteiner Laboratory, AMC, University of Amsterdam, Amsterdam, Netherlands, ³Department of Experimental Immunology, Academic Medical Center (AMC), Amsterdam, Netherlands

09:50-10:00
W1-O8 | Cellular and mechanistic processes linking inflammation and tissue repair
Magdalena E.M. Oremek¹, Christopher D. Lucas¹, Laura J. Hoodless¹, Fiona Rossi¹, Carl S. Tucker¹, Martin A. Denvir¹, Adriano G. Rossi¹
¹University of Edinburgh, Edinburgh, United Kingdom

10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES - AWARD LECTURES IN ROOM MR10+11
12:30-14:30 LUNCH & POSTER VIEWING AND EVALUATION
Session 4: Phagocytes in the clearance of apoptotic debris | Room MR07+08
Chairs: Bernhard Brune and Catherine Godson

14:30-14:55  W1-L8 | Signaling in phagocytes during apoptotic cell engulfment  
Kodi Ravichandran (Charlottesville, VA, USA)

14:55-15:20  W1-L9 | Death begets a new beginning  
Carla Rothlin (Yale University, CT, USA)

15:20-15:45  W1-L10 | Phagocyte Responses to Dying Cells  
Julie M. Blander (Cornell University, NY, USA)

15:45-16:00  W1-O9 | Cell-autonomous Protein S drives apoptotic cell engulfment by multiple phagocytes  
Tal Burstyn-Cohen¹, Delphine Lumbroso², Soaad Soboh², Avi Maimon¹, Stav Shtiglitz¹, Arielle Sznajderman¹, Sagie Schif-Zuck², Amiram Ariel¹  
¹Hebrew University of Jerusalem, Jerusalem, Israel, ²University of Haifa, Israel

16:00-16:30  COFFEE BREAK

Session 5: Cytokines and chemokines in phagocyte function | Room MR07+08
Chairs: Janos Filep and Marjolein van Egmond

16:30-16:55  W1-L11 | Probing Macrophage Contributions to Organismal Homeostasis and Responses to Challenge  
Steffen Jung (Rehovot, Israel)

16:55-17:20  W1-L12 | Regulatory networks controlling macrophage polarized activation  
Massimo Locati (Milan, Italy)

17:20-17:30  W1-O10 | New insights in the role of S100A8/A9 in neutrophil recruitment  
Monika Pruenster  
Walter-Brendel-Center of Experimental Medicine, Biomedical Center, Ludwig-Maximilians Universität München, Munich, Germany

17:30-19:00  POSTER VIEWING AND EVALUATION
### Friday, 1 June

**Session 6 : Phagocytes in liver and kidney disease I | Room MR07+08**

**Chairs : J. Trebicka and E. Zigmond**

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>08:30-08:55</td>
<td>**W1-L13</td>
<td>Neutrophil dysfunction in cirrhosis**</td>
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<tr>
<td>08:55-09:20</td>
<td>**W1-L14</td>
<td>Alcohol binge contributes to abnormal neutrophil extracellular traps and impaired macrophage efferocytosis in sepsis in mice**</td>
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<tr>
<td>09:20-09:35</td>
<td>**W1-O11</td>
<td>Human primary macrophages show tissue-specific profiles of IgG receptor expression**</td>
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<td>¹Department of Blood Cell Research, Sanquin Research and Landsteiner Laboratory, Academic Medical Center (AMC), University of Amsterdam, Netherlands, ²Department of Central Facility Research, Sanquin Research, and Landsteiner Laboratory, AMC, University of Amsterdam, Netherlands, ³Department of Experimental Surgery, AMC, University of Amsterdam, Netherlands, ⁴Department of Experimental Immunology, AMC, University of Amsterdam, Netherlands, ⁵Department of Pathology, AMC, University of Amsterdam, Netherlands, ⁶Department of Molecular Cell Biology and Immunology, VU University Medical Center, Amsterdam, Netherlands, ⁷Emma Children’s Hospital, AMC, University of Amsterdam, Netherlands.</td>
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<tr>
<td>09:35-09:50</td>
<td>**W1-O12</td>
<td>CD5L drives M2 polarization of human macrophages in liver cancer**</td>
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<td>¹Innate Immunity Group, Health Sciences Research Institute Germans Trias i Pujol (IGTP), Badalona, Spain, ²Network for Biomedical Research in Diabetes and Associated Metabolic Diseases (CIBERDEM), Barcelona, Spain, ³Pathology Department, Josep Trueta Hospital, Girona, Spain, ⁴Gastroenterology Department,</td>
</tr>
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</table>
Josep Trueta Hospital, Girona, Spain, Gastroenterology Department
Mar Hospital, Barcelona, Spain, Gastroenterology Department,
Central de Asturias Hospital, Oviedo, Spain, Gastroenterology
Dept., Parc Taulí Hospital Consortium, Sabadell, Spain, Network
for Biomedical Research in Hepatic and Digestive Diseases
(CIBERehd), Barcelona, Spain, Protein Tools Unit and Department
of Immunology and Oncology, Centro Nacional de Biotecnologia
(CNB-CSIC), Madrid, Spain, Gastroenterology Dept., Hospital
Universitari Germans Trias i Pujol, (HUGTIP), Badalona, Spain,
Departament de Física, Escola Superior d’Agricultura de
Barcelona, Universitat Politècnica de Catalunya- BarcelonaTech,
Castelldefels, Spain, Childhood Liver Oncology Group, Program
of Predictive and Personalized Medicine of Cancer (PMPCC), IGTP,
Badalona, Spain

09:50-10:00
W1-O13 | Impairment of human neutrophilic functions in septic
patients is transferable by heat-resistant serum factor(s)
Csaba Timár1, Ferenc Kolonics1, Zsolt Iványi2, Viktor Berzsenyi1,
Eszter Tamáská2, Lilla Turiák1, Ken McLeish4, Erzsébet Ligeti1
1 Semmelweis University, Department of Physiology, Budapest, Hungary,
2 Semmelweis University, Clinics of Anesthesiology and Intensive Therapy, Budapest, Magyarország,
3 Hungarian Academy of Sciences, MS Proteomics Research Group, Research Center for Natural Sciences, Budapest, Hungary,
4 University of Louisville, Department of Medicine, Louisville, USA

10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES-MULTIDISCIPLINARY LECTURES IN ROOM MR10+11
12:30-14:30 LUNCH & POSTER VIEWING AND EVALUATION

Session 7 : Phagocytes in liver and kidney disease II | Room MR07+08
Chairs : Heidi Welch and Gyongyi Szabo

14:30-14:55 W1-L15 | Regulation of innate immunity by pro-resolving lipid
mediators
C. López-Vicario (Barcelona, Spain)

14:55-15:20 W1-L16 | Lipoxins and synthetic mimetics: Resolving
Inflammation, Suppressing Diabetic Complications
Catherine Godson (Dublin, IR)

15:20-15:45 W1-L17 | Mononuclear phagocytes in autoimmune cholangitis
Ehud Zigmond (Tel Aviv, Israel)
15:45-16:00  **W1-O14 | Albumin modulates TLR9 and FPR1 signalling in human peripheral leukocytes**
Mireia Casulleras$^1$, José Alcaraz-Quiles$^1$, Marta Duran-Güell$^1$, Roger Flores-Costa$^1$, Esther Titos$^1$, Cristina López-Vicario$^1$, Raquel Horrillo$^2$, Montserrat Costa$^2$, Richard Moreau$^{1,4}$, Vicente Arroyo$^4$, Joan Clària$^{1,4}$

$^1$Hospital Clinic-University of Barcelona, Barcelona, Spain, $^2$R&D, Bioscience Industrial Group, Grifols, Barcelona, Spain, $^3$Inserm, U1149, Centre de Recherche sur l’Inflammation (CRI), Paris, France, $^4$European Foundation for the Study of Chronic Liver Failure (EF-Clif), Barcelona, Spain

16:00-16:30  COFFEE BREAK

**Session 8 :**  **Environmental control of macrophage differentiation | Room MR07+08**
Chairs : Amiram Ariel and Joan Claria

16:30-16:55  **W1-L18 | S1P receptors in macrophage polarization**
Bernard Brune (Frankfurt, Germany)

16:55-17:20  **W1-L19 | The gene signature of activated IL-10-producing macrophages relies on MAPK and GSK3**
Angel Corbi (Madrid, Spain)

17:20-17:30  **W1-O15 | EMMPRIN vaccination improves both tumour growth and DSS-induced colitis**
Michal A. Rahat$^{1,2}$, Elina Simanovich$^1$, Vera Brod$^1$

$^1$Carmel Medical Center, Haifa, Israel, $^2$Ruth and Bruce Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

17:30-17:45  Talk awarded from submitted abstracts
17:45-18:00  Talk awarded from submitted abstracts

18:00-18:30  POSTER PRIZES & CLOSING IN ROOM MR10+11
Workshop 2 | Mitochondria, ageing and disease

Wednesday, 30 May

Session 1: Technology Focus Session | Room MR14
Chairs: Paulo J. Oliveira and Mariusz Wieckowski

13:30 Opening of Workshop
Paulo Oliveira (Coimbra, Portugal), Mariusz Wieckowski (Warsaw, Poland), Carlos Palmeira (Coimbra, Portugal), José Viña (Valencia, Spain)

13:30-13:50 W2-L1 | Back to the basics: evolution of mitochondrial respirometry and basic concepts
Paulo Oliveira (Coimbra, Portugal)

13:50-14:15 W2-L2 | High-Resolution FluoRespirometry, two techniques combined in one to explore mitochondrial function in health and disease
Carolina Doerrier (Innsbruck, Austria)

14:15-14:40 W2-L3 | Measuring metabolism in live cells using the Agilent Cell Analysis tools
Alfredo Maldonado (Madrid, Spain)

14:40-15:05 W2-L4 | Narrowing the in vitro - in vivo divide: the importance of cellular oxygenation measurement
Ian Hayes (Cork, Ireland)

15:05-15:30 W2-L5 | Cellomics of mitochondrial morphofunction
Werner Koopman (Nijmegen, Netherlands)

15:30-15:45 W2-O1 | The role of dynamins 1-3 in the regulation of mitochondrial and peroxisomal division
Ángela Sánchez-Guerrero1,2, Tiago Fonseca Branco1,2, Katarzyna Wieciorek2, King Faisal Yambire1,2, Ira Milosevic1, Nuno Raimundo2
1Eur. Neuroscience Inst., Univ. Med. C. Göttingen, Germany,
2Inst. of Cellular Biochemistry, Univ. Med. C. Göttingen, Germany

15:45-16:00 W2-O2 | Exploring the role of the bile acid receptor TGR5 in bile acid mediated obesity control: Novel insights from a CRISPR/Cas9 adipocyte model
João Soeiro Teodoro1,2, Rui Silva1,2, AnaBela Pinto Rolo1,2, Rui Albuquerque Carvalho1, Carlos Marques Palmeira1,2
1Cnc.ibili, Coimbra, Portugal, 2Dept. of Life Sciences of the Univ. of Coimbra, Portugal
Workshops

16:00-16:30 COFFEE BREAK

16:30-16:55 W2-L6 | Assessing mitochondrial substrate utilization through Krebs cycle flux measurements
John Jones (Coimbra, Portugal)

16:55-17:10 W2-O3 | Detection of potential mitochondrial dysfunction in patients with diabetic kidney disease
Hannah Rosa1, Saima Ajaz1, Luigi Gnudi1, Afshan Malik1
1King’s College London, London, United Kingdom

17:10-17:30 Group discussion: Should we have a uniform nomenclature and normalization for cellular respirometry assays?

17:30-19.00 OPENING CEREMONY & LECTURE IN ROOM MR10+11

Thursday, 31 May

Session 2: Mitochondria In Disease Pathology | Room MR05+06
Chairs: Werner Koopman and Antonio Zorzano

08:30-08.55 W2-L7 | The opposing impact of Alzheimer’s disease and Diabetes on mitochondrial DNA in the human brain
Afshan Malik (London, UK)

08:55-09:20 W2-L8 | New advances in the mitochondrial permeability transition pore structure
Mariusz Wieckowski (Warsaw, Poland)

09:20-09:45 W2-L9 | Reactivation of dehydroorotate dehydrogenase by respiration restores tumor growth of mitochondrial DNA-depleted cancer cells
Jakub Rohlena (Prague, Czech Republic)

09:45-10:00 W2-O4 | Effects of western diet on liver mitochondrial function in the context of non-alcoholic fatty liver disease
Inês Simões1, Agnieszka Karkucinska-Wieckowska2, Sabine Schmitt1, Maria Ejmot1, Maciej Pronicki2, Hans Zischka3,4, Paulo Oliveira5, Mariusz Wieckowski1
1Dept. of Biochemistry, Nencki Inst. of Experimental Biology, Polish Acad. of Sciences, Warsaw, Poland, 2Dept. of Pathology, The Children’s Memorial Health Inst., Warsaw, Poland, 3Inst. of Toxicology & Environmental Hygiene, Tech. Univ. Munich, Germany, 4Inst. of Molecular Toxicology & Pharmacology, Helmholtz Center Munich, German Research C. for Environmental Health, Neuherberg, Germany, 5CNC-Center for Neuroscience and Cell Biology, Univ. of Coimbra, Portugal
10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES - AWARD LECTURES IN ROOM MR10+11
12:30-14:30 LUNCH & POSTER VIEWING AND EVALUATION

14:30-14:55 **W2-L10** | The role of mitochondria in neuronal innate immunity activation: relevance for Parkinson’s disease
Sandra Cardoso (Coimbra, Portugal)

14:55-15:20 **W2-L11** | Cross-regulatory mechanisms between mitochondria and lysosomes
Nuno Raimundo (Gottingen, Germany)

15:20-15:45 **W2-L12** | Metabolic plasticity in obesity-related type 2 diabetes
Pablo Garcia-Roves (Barcelona, Spain)

15:45-16:00 **W2-O5** | Human urine-derived cells for assessing metabolic profile and mitochondrial morphology in young and old donors
Guida Bento1,2, Paulo J Oliveira2, Paula M Macedo1, Vilma A Sardão2
1PhDOC PhD Program, CNC.IBILI (Center for Neuroscience and Cell Biology / Institute for Biomedical Imaging and Life Sciences), University of Coimbra, Portugal, 2CNC (Center for Neuroscience and Cell Biology), University of Coimbra, UC-Biotech, Biocant Park, Cantanhede, Portugal, 3CEDOC Chronic Diseases Research Center, Nova Medical School, Univ. Nova de Lisboa, Portugal

16:00-16:30 COFFEE BREAK

16:30-16:55 **W2-L13** | Preservation / Improvement of mitochondrial function in the context of I/R and liver transplantation
Carlos Palmeira (Coimbra, Portugal)

16:55-17:10 **W2-O6** | Integrated genomic analysis of mitochondrial RNA processing in human cancers
Alan Hodgkinson1, Youssef Idaghdour2
1King’s College London, London, United Kingdom, 2New York University Abu Dhabi, Abu Dhabi, United Arab Emirates
## Workshops

<table>
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<tr>
<th>Time</th>
<th>Session Description</th>
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<tr>
<td>17:10-17:25</td>
<td><strong>W2-O7</strong></td>
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<td>Diana Bou-Teen¹, Marisol Ruiz-Meana¹, Elisabet Miro-Casas¹,³, Marta Minguet¹, Celia Castaños², Jose Castellano¹, Elena Bonzon-Kulichenko², Jesus Vazquez²,³, David Garcia-Dorado¹,³</td>
</tr>
<tr>
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<td>¹Vall d’Hebron Institut de Recerca (VHIR), Hospital Universitari Vall d’Hebron, Barcelona, Spain, ²Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain, ³CIBERCV, Spain</td>
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### Friday, 1 June

**Joint Session:** Workshop 2 and Workshop 4 | Room MR05+06  
**Mitochondria, aging and disease & Hepato-Gastroenterology/Lipids**  
**Chairs:** Piero Portincasa and Carlos Palmeira

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<tr>
<td>08:30-08:55</td>
<td><strong>W2/W4-L1</strong></td>
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<tr>
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<td>José Fernández-Checa (Barcelona, Spain)</td>
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<td>08:55-09:20</td>
<td><strong>W2/W4-L2</strong></td>
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<td>Hans Zischka (Munich, Germany)</td>
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<td>09:20-09:45</td>
<td><strong>W2/W4-L3</strong></td>
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<td>Francesc Villarroya (Barcelona, Spain)</td>
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<td>09:45-10:00</td>
<td><strong>W2/W4-L4</strong></td>
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<td>Paulo J. Oliveira (Coimbra, Portugal)</td>
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<td>10:00-10:30</td>
<td>COFFEE BREAK</td>
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<td>10:30-12:30</td>
<td>COMMON ACTIVITIES-MULTIDISCIPLINARY LECTURES IN ROOM MR10+11</td>
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<td>12:30-14:30</td>
<td>LUNCH &amp; POSTER VIEWING AND EVALUATION</td>
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**Session 3:** Mitochondria in aging-associated-diseases | Room MR05+06  
**Chairs:** Fabio Di Lisa and Jose Viña

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<tr>
<td>14:30-14:55</td>
<td><strong>W2-L14</strong></td>
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<tr>
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<td>Marisol Corral-Debrinski (Paris, France)</td>
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<td>14:55-15:20</td>
<td><strong>W2-L15</strong></td>
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<td>Consuelo Borrás (Valencia, Spain)</td>
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</table>
15:20-15:45  W2-L16 | Mitochondrial dynamics and its role in age-related metabolic diseases
Antonio Zorzano (Barcelona, Spain)

15:45-16:00  W2-O8 | Selective elimination of senescent cells by mitochondrial targeting is regulated via ANT2
Eliska Davidova, Sona Hubackova, Katerina Rohlenova, Jan Stursa, Lukas Werner, Ladislav Andera, Lanfeng Dong, Mikkel G. Terp, Zdenek Hodny, Henrik J. Ditzel, Jakub Rohlena, Jiri Neuzil

1 Institute Of Biotechnology, Czech Academy of Sciences, Vestec, Czech Republic, 2 School of Medical Science, Menzies Health Institute Queensland, Southport, Australia, 3 Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark, 4 Institute of Molecular Genetics, Czech Academy of Sciences, Prague, Czech Republic

16:00-16:30 COFFEE BREAK

16:30-16:55  W2-L17 | Transcriptomic analysis reveals a distinct control of apoptosis in exceptional aging: role of mitochondria
Jose Viña (Valencia, Spain)

16:55-17:20  W2-L18 | Mitochondrial and nuclear DNA in healthy aging
José Enriquez (Madrid, Spain)

17:20-17:35  W2-O9 | Mitochondrial study in a rabbit model of intrauterine growth restriction and cardiovascular remodelling
Mariona Guitart-Mampel, Anna Gonzalez-Tendero, Constanza Moren, Marc Catalán-Garcia, Ingrid González-Casacuberta, Diana L. Juárez-Flores, Ester Tobias, Jose C. Milisenda, Josep Maria Grau, Fátima Crispi, Eduard Gratacós, Glòria Garrabou, Francesc Cardellach

1 Muscle Research and Mitochondrial Function Laboratory, Cellex-IDIBAPS, Faculty of Medicine and Health Science - University of Barcelona, Internal Medicine Service - Hospital Clínic of Barcelona (Barcelona, Spain) and CIBERER (U722, Madrid, Spain), 2 BCNatal-Barcelona Center for Maternal-Fetal and Neonatal Medicine (Hospital Clínic and Hospital Sant Joan de Deu), Clinical Institute of Obstetrics, Gynecology and Neonatology, IDIBAPS, University of Barcelona (Barcelona, Spain) and CIBERER (U719, Madrid, Spain)
17:35-17:50  W2-O10  |  Pridopidine improves overall mitochondrial function in cellular models of Huntington’s disease
Luana Naia1, Carina Maranga1, Carla Lopes1, Michal Geva2,3, Michael Hayden3, A. Cristina Rego1,4
1Center for Neuroscience and Cell Biology, Coimbra, Portugal, 2Teva Pharmaceutical Industries, Petah Tikva, Israel, 3Centre for Molecular Medicine and Therapeutics, Child and Family Research Institute, University of British Columbia, Vancouver, Canada, 4Faculty of Medicine, University of Coimbra, Coimbra, Portugal

18:00-18:30  POSTER PRIZES & CLOSING IN ROOM MR10+11
Workshop 3 | Cardiology-CIBERCV

Wednesday, 30 May

**Session 1:** Phenotyping, genotyping and risk stratification | Room MR10+11
Chairs: F. Montecucco, F. Fernández-Avilés

13:30-13:55  **W3-L1 | Imaging in patient phenotyping**  
Javier Bermejo (Madrid, Spain)

13:55-14:20  **W3-L2 | Molecular phenotyping**  
Lina Badimon (Barcelona, Spain)

13:20-14:45  **W3-L3 | Genotyping and risk stratification**  
Jaume Marrugat (Barcelona, Spain)

14:45-15:00  **W3-O1 | Serum levels of osteopontin predict atherosclerotic plaque rupture**  
Federico Carbone, Fabio Rigamonti, Fabienne Burger, Aline Roth, Maria Bertolotto, Giovanni Spinella, Bianca Pane, Domenico Palombo, Aldo Pende, Aldo Bonaventura, Luca Liberale, Alessandra Vecchiè, Franco Dallegr, François Mach, Fabrizio Montecucco

15:00-15:15  **W3-O2 | Dynamic of thrombus formation and Profilin 1: from inflammation to thrombosis**  
Esther Peña, Gemma Vilahur, Teresa Padro, Lina Badimon

1Department of Internal Medicine and Medical Specialties, University of Genoa, Italy, 2Division of Cardiology, Department of Medical Specialties, Geneva University Hospitals, Geneva, Switzerland, 3Division of Cardiology, Foundation for Medical Researches, Department of Medical Specialties, University of Geneva, Switzerland, 4Vascular and Endovascular Surgery Unit, Department of Surgery, Ospedale Policlinico San Martino, Genova, Italy, 5Center for Molecular Cardiology, University of Zürich, Switzerland, 6First Clinic of Internal Medicine Ospedale Policlinico San Martino, Genova, Italy, 7Centre of Excellence for Biomedical Research (CEBR), University of Genoa, Italy.
15:15-15:30  
**W3-O3 | oxLDL receptor in lymphocytes prevents atherosclerosis**
Hortensia De La Fuente, Katerina Tsilingiri, José Martínez González, Marta Relaño, Cristina Rodríguez, Javier Crespo, Fátima Sánchez Cabo, Ana Dopazo, José L Alonso Lebrero, Alicia Vara, Jesús Vázquez, José M Casasnovas, Fernando Alfonso, Borja Ibañez, Valentín Fuster, Pilar Martín, Francisco Sánchez Madrid.

1 Instituto de Investigación Sanitaria Princesa. Servicio de Inmunología, Hospital Universitario de La Princesa. CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain. 2 Centro Nacional de Investigaciones Cardiovasculares CINIC, Madrid, Spain. 3 Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), IIB-Sant Pau. CIBER de Enfermedades Cardiovasculares (CIBERCV), Barcelona, Spain. 4 Instituto de Recerca del Hospital de la Santa Creu i Sant Pau-Programa ICCC, IIB-Sant Pau. CIBER de Enfermedades Cardiovasculares (CIBERCV), Barcelona, Spain. 5 Hospital Universitario de la Princesa. Centro Nacional de Investigaciones Cardiovasculares CINIC. CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain. 6 Centro Nacional de Investigaciones Sanitarias (CNIC), Madrid, Spain. 7 Hospital Universitario de la Princesa. Centro Nacional de Investigaciones Cardiovasculares CINIC. IIS-Fundación Jiménez Díaz University Hospital. CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain. 8 Cardiovascular Institute, Icahn School of Medicine at Mount Sinai, New York, USA. 9 Instituto de Investigación Sanitaria Princesa. Servicio de Inmunología, Hospital Universitario de La Princesa. Centro Nacional de Investigaciones Cardiovasculares CINIC. CIBER de Enfermedades Cardiovasculares (CIBERCV).

15:30-15:45  
**W3-O4 | Risk stratification of acute heart failure based on a multi-biomarker analysis at admission and hospital discharge**

1 Hospital de la Santa Creu i Sant Pau, Barcelona, Spain. 2 Hospital La Fe, Valencia, Spain. 3 Hospital Virgen de la Arrixaca, Murcia, Spain. 4 Hospital Puerta de Hierro, Madrid, Spain. 5 Hospital Gregorio Marañón, Madrid, Spain. 6 Hospital 12 de Octubre, Madrid, Spain. 7 Hospital Clínico, Santiago de Compostela, Spain. 8 Hospital Arnau de Vilanova, Lérida, Spain.
15:45-16:00  **W3-O5 | AXL expression is increased in advanced heart failure in an animal model with pressure overload**
Montserrat Batlle^1,2, Sebastian Sarvari^3, Nadia Castillo^1, Pablo García de Frutos^4, Marta Sitges^3,2, Lluis Mont^1,2, Eduard Guasch^3,2
^1IDIBAPS, Barcelona, Spain, ^2CIBERCV, Spain, ^3Institut Clínic Cardiovascular. Hospital Clínic, Barcelona, Spain, ^4Institut de Investigacions Biomediques de Barcelona (IIBB), Barcelona, Spain

16:00-16:30  **COFFEE BREAK**

**Session 2:**  **Perspectives in cardiology - I | Room MR10+11**
Chairs: H. Nathoe, J. Bermejo

16:30-17:00  **W3-L4 | Cardioncology**
J. Luis Zamorano (Madrid, Spain)

17:00-17:15  **W3-O6 | Circulating hsa-miR-Chr8:96 as the first non-invasive biomarker for the diagnosis of acute myocarditis**
Rafael Blanco-Dominguez^2, Raquel Sánchez-Díaz^2, Beatriz Linillos-Pradillo^1, Fernando Alonso^1, Amaia Martínez-León^1, Héctor Bueno^2, Leticia Fernandez-Friera^6, Borja Ibáñez^6, Francisco Sánchez-Madrid^1, Pilar Martín^1
^1Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain, ^2Centro de Investigación Biomédica en Red CIBERCV, Madrid, Spain, ^3Department of Immunology, Hospital de la Princesa, Madrid, Spain, ^4Cardiology Service, Hospital de la Princesa, Madrid, Spain, ^5Hospital Universitario Central de Asturias, Oviedo, Spain, ^6Hospital Universitario Montepríncipe, Madrid, Spain, ^7Hospital Universitario Doce de Octubre, Madrid, Spain, ^8IIS, Fundación Jiménez Díaz, Madrid, Spain

17:15-17:30  **W3-O7 | Effectiveness of primary or elective percutaneous coronary interventions in patients aged 75 years and older with ST elevation myocardial infarction (ATHOS Study)**
Irene Dégano^1,2, Daniel Fernandez-Bergés^1, Isaac Subirana^4,5, Francisco Fernández Avilés^6, Juan Sanchís^1,2, David García-Dorado^1,8, Roberto Elouza^1,4, Rosa María Lidón^1,8, Jaume Marrugat^1,2
^1CIBERCV, Instituto de Salud Carlos III, Madrid, Spain, ^2Grupo REGICOR, Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain, ^3Complejo Hospitalario Don Benito-Villanueva, Badajoz, Spain, ^4Grupo EGEC, Hospital Del Mar Medical Research Institute (IMIM), Barcelona, Spain, ^5CIBERESP, Instituto de Salud Carlos III, Madrid, Spain, ^6Hospital Universitario Gregorio Marañón, Madrid, Spain, ^7Hospital Clínico Universitario, Valencia, Spain, ^8Hospital Universitari Vall d’Hebron, Barcelona, Spain

17:30-19.00  **OPENING CEREMONY & LECTURE IN ROOM MR10+11**
Thursday, 31 May

Session 3 : Atrial fibrillation: Innovative approaches to diagnosis & therapy | Room MR10+11

Chairs: J. Cinca, J. Diez

08:30-08:55 W3-L5 | Activation frequency mapping of atrial fibrillation by non-invasive body surface mapping
Andreu Climent (Madrid, Spain)

08:55-09:20 W3-L6 | New imaging tools for AF
Lluis Mont (Barcelona, Spain)

09:20-09:35 W3-O9 | A missense mutation in the Tbx5 transcription factor causes long QT syndrome
Ricardo Caballero1,2, Paloma Nieto-Marín1, Raquel García-Utrilla1, Silvia Alfayate1, David Tintaquero1, Andrés González-Guerra2, Eduardo Armada1, Rafael Peinado1, José Luis Merino3, José Luis López-Sendón1, Juan Tamargo1, Juan Antonio Bernal2, Eva Delpón1
1 School of Medicine. Univ. Complutense de Madrid, España, 2Centro Nacional de Investigaciones Cardiovasculares, Madrid, España, 3Cardiology Department. Hospital Univ. LaPaz, Madrid, España

09:35-09:50 W3-O10 | Increased vascular LDL permeability and retention as a triggering factor for accelerated atherosclerosis in a mouse model of progeria
Magda R. Hamczyk1,2, Pilar Gonzalo1, María Jesús Andrés-Manzano1,2, Ricardo Villa-Bellosta1,4, Paula Nogales1, Jacob F. Bentzon1,3, Vicente Andrés1,2
1 Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain, 2Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain, 3Department of Clinical Medicine, Aarhus University, Aarhus, Denmark, 4Fundación Instituto de Investigación Sanitaria Fundación Jiménez Díaz (FIIS-FJD), Madrid, Spain

09:50-10:05 W3-O8 | Platelets from diabetic patients show a distinct signature in chaperone proteins: implications in platelet aggregation and thrombosis
Gemma Chiva-Blanch1,2, Esther Peña1,2, Judit Cubedo1,2, Lina Badimon1,2
1 Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital De La Santa Creu I Sant Pau, Barcelona, Spain, 2 CiberCV, Institute Carlos III, Barcelona, Spain,
10:00-10:30  COFFEE BREAK
10:30-12:30  COMMON ACTIVITIES - AWARD LECTURES  IN ROOM MR10+11
12:30-14:30  LUNCH & POSTER VIEWING AND EVALUATION

Session 4a :  Heart failure: Tailoring therapeutic strategies  |  Room MR10+11
Chairs : B. Ibañez, S. Chamuleau

14:30-14:50  W3-L7  |  Changing indications in heart transplantation
Marisa Crespo ( A Coruña, Spain )

14:50-15:10  W3-L8  |  Biomarkers in HF
Toni Bayes ( Barcelona, Spain )

15:10-15:30  W3-L9  |  Towards a personalized therapy of myocardial fibrosis in heart failure
Javier Diez ( Pamplona, Spain )

Session 4b :  Electrophysiology  |  Room MR10+11
Chairs : M. Crespo, J. Marrugat

15:30-16:00  W3-L10  |  Innovation in electrophysiology
Juan Cinca ( Barcelona, Spain )

16:00-16:30  COFFEE BREAK

Session 5 :  Perspectives in cardiology - II  |  Room MR10+11
Chairs : J. Diez, T. Bayes

16:30-17:00  W3-L11  |  Translational research in cardiovascular repair
Steven A.J. Chamuleau ( Utrecht, Netherlands )

17:00-17:30  W3-L12  |  Regeneration and repair
F. Fernandez-Aviles ( Madrid, Spain )

17:30-19.00  POSTER VIEWING AND EVALUATION
**Friday, 1 June**

**Session 6:** Targeting Inflammation, Lipids and Immunomodulation | Room MR10+11  
Chair: R. Dullaart, L. Badimon

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<th>Time</th>
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<tr>
<td>08:30-09:00</td>
<td><strong>W3-L13</strong> Immunodulation in myocardial infarction</td>
<td>Borja Ibañez (Madrid, Spain)</td>
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<tr>
<td>09:00-09:30</td>
<td><strong>W3-L14</strong> Update on the role of inflammatory molecules in carotid atherogenesis</td>
<td>Fabrizio Montecucco (Genoa, Italy)</td>
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<td>09:30-10:00</td>
<td><strong>W3-L15</strong> Lipids and immunomodulation</td>
<td>François Mach (Geneva, Switzerland)</td>
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**Session 7:** Advances in the resolution of I/R injury: Bench to Bedside | Room MR10+11  
Chair: D. Garcia-Dorado, F. Fernandez-Aviles

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<th>Time</th>
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<tr>
<td>14:30-15:00</td>
<td><strong>W3-L16</strong> Conditioning the heart</td>
<td>Gemma Vilahur (Barcelona, Spain)</td>
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<tr>
<td>15:00-15:30</td>
<td><strong>W3-L17</strong> Effects of ageing on reperfusion-induced myocardial damage</td>
<td>Marisol Ruiz-Meana (Barcelona, Spain)</td>
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</table>
| 15:30-15:45| **W3-O11** Canonical Wnt pathway activation is protective in the myocardium after infarction | Maria Borrell, Gemma Vilahur, Laura Casani, Lina Badimon  
\(^{1}\) ICCC-Institut Català de Ciències Cardiovasculars, IR-Hosp. de la Santa Creu i Sant Pau, UAB, CIBERCV, Barcelona, Spain |

**W3-O12** Aortic arch dilation in bicuspid aortic valve patients is related to altered hemodynamics and wall shear stress: a 4D flow CMR study  
Lydia Dux-Santoy, Andrea Guala, Jose Rodriguez-Palomares, Gisela Teixido-Tura, Aroa Ruiz-Muñoz, C. Granato, Nicola Villalba, Filipa Valente, Ilaria Dentamaro, Augusto Sao-Aviles, Laura Galian, Laura Gutierrez, Ruben Fernandez, Teresa Gonzalez-Alujas, David Garcia-Dorado, Artur Evangelista  
\(^{1}\) Hospital Vall D’Hebron, Dept. of Cardiology, VHIR, Universitat Autònoma de Barcelona, Spain
16:00-16:30 COFFEE BREAK

16:30-16:45 **W3-O13 | PRESTO Score: simple score for early discharge of patients with ST-elevation myocardial infarction treated with primary percutaneous coronary angioplasty**
Alejandro Avila Carrillo¹, Ana Belén Cid Álvarez¹, Alfredo Redondo Diéguez¹, Fernando Gómez Pérez¹, Juan Carlos Sanmartín Pena¹, Diego López Otero¹, Ramiro Trillo Nouche¹, José Ramón González Juanatey¹
¹Hospital Universitario De Santiago De Compostela, Santiago De Compostela, Spain

16:45-17:30 **W3-L18 | Closing lecture: difficulties and chances in translation of cardioprotection**
Gerd Heusch (Essen, Germany)

18:00-18:30 POSTER PRIZES & CLOSING IN ROOM MR10+11
**Workshop 4 | Hepato-Gastroenterology/Lipids**

**Thursday, 31 May**

**Joint Session**: Workshop 4 and Workshop 7 | Room MR12+13  
Hepato-Gastroenterology / Lipids & Obesity-CIBEROBN  
Chairs: P. Portincasa and M. Ávila

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<tr>
<td>14:30-15:00</td>
<td>W4/W7-L1</td>
<td>Hepatokines in metabolic disease: Novel insights into FGF21 regulation by glucose</td>
<td>Catherine Postic (Paris, France)</td>
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<tr>
<td>15:00-15:30</td>
<td>W4/W7-L2</td>
<td>Quality of life in autoimmune liver disease</td>
<td>Piotr Milkiewicz (Warsaw, Poland)</td>
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<tr>
<td>15:30-16:00</td>
<td>W4/W7-L3</td>
<td>The burden of fatty liver disease in an aging population</td>
<td>Elisabetta Bugianesi (Torino, Italy)</td>
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<td>16:00-16:30</td>
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<td>COFFEE BREAK</td>
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Chairs: P. Milkiewicz and E. Bugianesi

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<th>Time</th>
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<th>Title</th>
<th>Authors</th>
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| 16.30-16.40| W4/W7-O1| Evidences for increased colonic permeability in obese subjects with fatty liver | Ornella de Bari\(^1\), Domenica Maria Di Palo\(^1\), Agostino Di Ciula\(^2\), Emilio Molina-Molina\(^1\), Raquel Lunardi Baccetto\(^1\), Eric Mossel\(^3\), Piero Portincasa\(^1\)  
\(^1\)Dept. of Biomedical Sciences & Human Oncology, Univ. ‘Aldo Moro’ of Bari Medical School, Bari, Italy, \(^2\)Div. of Internal Med., Hosp. of Bisceglie, Bisceglie, Italy, \(^3\)AB 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 Dullaart\(^2\), Lynnda van Tienhoven-Wind\(^1\), Stephan Bakker\(^1\), Richard James\(^1\), Rijk Gans\(^1\), Dinke Gruppen\(^1\)  
\(^1\)University Hospital of Groningen, Netherlands |
16.50-17.00  **W4/W7-O3 | Extent of lipid accumulation affects biochemical, mechanical, and functional parameters of cultured hepatic cells**
Francesca Baldini, Alice Bartolozzi, Massimo Vassalli, Mohamad Khalil, Elena Grasselli, Adriana Voci, Piero Portincasa, Laura Vergani

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, Inês Sousa-Lima, Rita S Patarrão, Rogério T Ribeiro, Luís Gardete-Correia, Rui Duarte, José Manuel Boavida, Isabel Correia, Rita Andrade, José Luís Medina, John Jones, João F Raposo, M. Paula Macedo

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 Chis, Ana Chis, Daniela Fodor, Dan Dumitrescu

1Iuliu Hatieganu University of Medicine And Pharmacy, Clujnapoca, Romania

17:30-19.00  POSTER VIEWING AND EVALUATION
“Precision medicine for healthy ageing”

Friday, 1 June

Joint Session: Workshop 2 and Workshop 4 | Room MR05+06
Mitochondria, aging and disease & Hepato-Gastroenterology/Lipids
Chairs: Piero Portincasa and Carlos Palmeira

08:30-08:55
W2/W4-L1 | Mitochondria, cholesterol and steatohepatitis
José Fernández-Checa (Barcelona, Spain)

08:55-09:20
W2/W4-L2 | Mitochondrial adaptation in steatosis
Hans Zischka (Munich, Germany)

09:20-09:45
W2/W4-L3 | Novel mitochondrial actors in the control of hepatic damage elicited by lipotoxicity
Francesc Villarroya (Barcelona, Spain)

09:45-10:00
W2/W4-L4 | An Update on the ETN project FOIE GRAS
Paulo J. Oliveira (Coimbra, Portugal)

10:00-10:30
COFFEE BREAK

10:30-12:30
COMMON ACTIVITIES-MULTIDISCIPLINARY LECTURES IN ROOM MR10+11
12:30-14:30
LUNCH & POSTER VIEWING AND EVALUATION

Joint Session: Workshop 4 and Workshop 7 | Room MR12+13
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)

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 Sebastián1, Sandra Recalde1, Joan F. Mir1, Raquel Fucho1, Maria Calderón-Dominguéz1, Paula Mera1, Sebastián Zgamut1, M. Carmen Soler-Vázquez1, Kevin Ibeas1, Joan Carles Escola-Gil1, Vicenta Llorente4, Nuria Casals1, Antonio Zorzano1, Gemma Fabriáis2, Laura Herrero1

1Facuty 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 Chis, Bogdan Augustin Chis, Monica Pop
Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

18:00-18:30 POSTER PRIZES & CLOSING IN ROOM MR10+11
Workshop 5 | Omics, advances, applications and translations in nutrition and epidemiology

Wednesday, 30 May

Joint Session Workshop 5 and Workshop 7 | Room MR12+13
OMICS, advances, applications and translations in nutrition and epidemiology & Obesity-CIBEROBN
Chairs: Frank Hu and Miguel A. Martínez-González

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

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
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
Workshop 6 | Precision nutrition

Friday, 1 June

Session 1: Methodologies for precision nutrition | Room MR14
Chairs: D. Corella and J. A. Martínez
14:30-16:00

W6-L1 | Improving methodology in nutritional epidemiology for precision nutrition
Dolores Corella (Valencia, Spain)

W6-L2 | Biomarkers from lipidomic analysis
Clary Clish (Cambridge, USA)

W6-L3 | Metabolomics applications in food research
Cristina Andrés-Lacueva (Barcelona, Spain)

W6-L4 | Cell models for precision nutrition research
Ana Ramírez de Molina (Spain)

W6-L5 | Nutrition precision based on genetic tests
Martin Kohlmeier (Chapel Hill, USA)

16:00-16:30 COFFEE BREAK

Session 2: Precision nutrition applications | Room MR14
Chairs: M.A. Martínez and J.A. Martínez
16:30-18:00

W6-L6 | Role of specific Mediterranean foods (nuts & olive oil) on precision nutrition
Monica Bulló (Spain)

W6-L7 | Epigenetic signatures of taste and olfaction
Omar Ramos López (Guadalajara, Jalisco, Mexico)

W6-L8 | Obesomics for precision nutrition
J. Alfredo Martínez (Pamplona, Spain)

W6-L9 | Dietary antioxidants on precision nutrition
Christian Carpené (Toulouse, France)

Evaluation of clinical trajectories of frailty syndrome and the loss of functional capability. The CohorFES Cohort Study
Xavier Nogués Solan (Barcelona, Spain)

18:00-18:30 POSTER PRIZES & CLOSING IN ROOM MR10+11
Workshop 7  |  Obesity-CIBEROBN

**Wednesday, 30 May**

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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 cardiometabolic 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                                                                 |

*Bringing together experts in emerging omics techniques, with an emphasis on recent advances, applications in populations-based research, integration with nutrition, and translational applications.*
13.00-13.30  W5/W7-L8a | Small metabolites in the pathophysiology of the metabolic syndrome  
Chi-Hao Lee (Boston, USA)

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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

Thursday, 31 May

Session 1:      Interplay of new metabolic factors in the pathophysiology and complications of obesity  | Room MR12+13  
Chairs: Francesc Vilarroya & José Manuel Fernández Real

08:30-09:00  W7-L1 | Septins and its role on adipocyte pathophysiology and insulin resistance  
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, José M MORENO-NAVARRETE, Josep M MERCADER, María GÓMEZ-SERRANO, Eva GARCÍA-SANTOS, Jésica LATORRE, Mònica SABATER, Rocío GUZMÁN, Manuel MACÍAS-GONZÁLEZ, María BUOX, José I RODRÍGUEZ-HERMOSA, Ramon VILALLONGA, Deborah NAON, Patricia BOTAS, Elías DELGADO, Dolores CORELLA, Remy BURCELIN, Gema FRÜHBECK, Wifredo RICART, Rafael SIMÓ, Ignacio CASTRILLON-RODRÍGUEZ, María T MARTÍNEZ-LARRAD, Manuel SERRANO-RÍOS, Francisco J TINAHONES, Antonio VIDAL-PUIG, María M MALAGÓN, Belén PERAL, Antonio ZORZANO, José M FERNÁNDEZ-REAL.

1 Centro de Investigación Biomédica en Red de la Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 2 Department of Diabetes, Endocrinology, and Nutrition (UDEN), Institut d’Investigació Biomèdica de Girona (IdIBGi), Girona, Spain, 3 Barcelona Supercomputing Center (BSC), Joint BSC-CRG-IRB Research Program in Computational Biology, Barcelona, Spain, 4 Department of Endocrinology, Physiopathology and Nervous System, Instituto de Investigaciones Biomédicas ‘Alberto Sols’ (IIBM), Consejo Superior de Investigaciones Científicas (CSIC) and Universidad Autónoma de Madrid (UAM), Madrid, Spain, 5 Department of Cell Biology, Physiology and Immunology, Instituto Maimonides de Investigaciones Biomedicas de Cordoba (IMIBIC) / University of Cordoba / Reina Sofia University Hospital, Cordoba, Spain, 6 Departament de Bioquímica i Biologia Molecular, Facultat de Biologia, Universitat de Barcelona, Institute for Research in Biomedicine (IRB Barcelona), Barcelona, Spain, 7 Service of Endocrinology and Nutrition, Hospital Clínico Universitario Virgen de Victoria de Malaga, Malaga, Spain, 8 Department of Surgery, Institut d’Investigació Biomèdica de Girona (IdIBGi), Girona, Spain, 9 Servicio de Cirugía General, Unidad de Cirugía Endocrina, Bariátrica y Metabólica, Hospital Universitario Vall d’Hebron, European Center of Excellence (EAC-BS), Barcelona, Spain, 10 INSERM Unité 858, Institut de Médecine Moléculaire de Rangueil, Université Paul Sabatier, IFR31, Toulouse, France, 11 Hospital Central de Asturias, Oviedo, Spain, 12 Genetic and Molecular Epidemiology Unit, Department of Preventive Medicine and Public Health, School of Medicine, University of Valencia, Valencia, Spain, 13 Department of Endocrinology & Nutrition, Clínica Universidad de Navarra (IdiSNA), Pamplona, Spain, 14 Diabetes and Metabolism Research Unit, Vall d’Hebron Research Institute, Autonomous University of Barcelona, Barcelona, Spain, 15 Centro de Investigación Biomédica en Red de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 16 Instituto de Investigación Sanitaria del Hospital Clínico San Carlos (IdISSC), Madrid, Spain, 17 Metabolic Research Laboratories, Wellcome Trust-MRC Institute of Metabolic Science, University of Cambridge, Addenbrooke’s Hospital, Cambridge, United Kingdom
09:45-10:00  **W7-O2 | Unbalanced proteostasis in obesity-related metabolic disease: the role of the preadipocyte**

Julia Sánchez-Ceinos, David Ovelleiro, Raúl Luque, Justo Pastor Castaño, Antonio Membrives, José López-Miranda, Rocío Guzmán-Ruiz, María Mar Malagón

1Dept. Cell Biology, Physiology, and Immunology, Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC)/University of Córdoba (UCO)/Reina Sofía University Hospital (HURS), Córdoba, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBERobn), ISCIII, Córdoba, Spain, 3Area of Technological Innovation and Bioinformatics, IMIBIC, Córdoba, Spain, 4Clinical Management Unit of General and Digestive Surgery, IMIBIC/HURS, Córdoba, Spain, 5Lipids and Atherosclerosis Unit. IMIBIC/HURS/UCO, Córdoba, Spain

10:00-10:30 COFFEE BREAK

10:30-12:30 COMMON ACTIVITIES-MULTIDISCIPLINARY SESSIONS IN ROOM MR10+11

12:30-14:30 LUNCH & POSTER VIEWING AND EVALUATION

**Joint Session:**  Workshop 4 and Workshop 7 | Room MR12+13

**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 Bari, Domenica Maria Di Palo, Agostino Di Ciaula, Emilio Molina-Molina, Raquel Lunardi Bacceto, Eric Mossel, Piero Portincasa

1Dept. of Biomedical Sciences & Human Oncology, Univ. ‘Aldo Moro’ of Bari Medical School, Bari, Italy, 2Div. of Internal Med., Hosp. 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 Dullaart, Lynnda van Tienhoven-Wind, Stephan Bakker, Richard James, Rijk Gans, Dinke Gruppen
1 University Hospital of Groningen, Netherlands

16.50-17.00 W4/W7-O3 | Extent of lipid accumulation affects biochemical, mechanical, and functional parameters of cultured hepatic cells
Francesca Baldini, Alice Bartolozzi, Massimo Vassalli, Mohamad Khalil, Elena Grasselli, Adriana Voci, Piero Portincasa, Laura Vergani
1 DISTAV, Dept. of Earth, Environment and Life Sciences, University of Genova, Italy, 2 Institute of Biophysics, National Research Council, Genova, Italy, 3 Dept. 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, Inês Sousa-Lima, Rita S Patarrão, Rogério T Ribeiro, Luís Gardete-Correia, Rui Duarte, José Manuel Boavida, Isabel Correia, Rita Andrade, José Luís Medina, João F Raposo, M. Paula Macedo
1 CEDOC, Chronic Diseases Research Centre, NOVA Medical School/Faculdade de Ciências Médicas, Universidade NOVA de Lisboa, Lisbon, Portugal, 2 ProRegeM PhD Programme, NOVA Medical School/Faculdade de Ciências Médicas, Universidade Nova de Lisboa, Lisbon, Portugal, 3 Instituto Gulbenkian de Ciência, Oeiras, Portugal, 4 APDP Diabetes Portugal, Education and Research Center (APDP-ERC), Lisbon, Portugal, 5 Department of Medical Sciences, Universidade de Aveiro, Portugal, 6 Portuguese Diabetes Society, Lisbon, Portugal, 7 CNC-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 Chis, Ana Chis, Daniela Fodor, Dan Dumitrascu
1 'Iuliu Hatieganu' University of Medicine And Pharmacy, Clujnapoca, Romania

17:30-19.00 POSTER VIEWING AND EVALUATION
Friday, 1 June

Session 2: Obesity, ageing and cognitive dysfunction | Room MR12+13
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-Bagué1,2, Maria Lozano-Madrid1,2, Estefanía Toledo1,2, Dolores Corella2,4, Jordi Salas-Salvadó2,5, Aida Cuenca-Royo2,6, Jesús Vioque7,8, Dora Romaguera2,9, Alfredo Martínez7,10, Julia Wärnberg11, Jose Lopez-Miranda2,12, Ramón Estruch2,13, Aurora Bueno-Cavanillas8,14, Fernando Arós2,15, Josep A. Tur Tur2,16, Francisco J Tinahones2,17, Luis Serra-Majem2,18, Vicente Martín8,19, José Lapetra2,20, Clotilde Vázquez2,21, Xavier Pinto2,22, Josep Vida2,23, Lidia Daimiel2,24, Miguel Delgado-Rodríguez2,25, Pilar Mata2,26, Emilio Ros2,27, Roser Granero1,28, Pilar Buil-Cosiales2,3, Rocío Barragan2,4, Mònica Bulló2,5, Olga Castañer2,6, Miguel Ruiz-Canela2,7, Andrés Díaz2,8, Susana Jiménez-Murcia1,2,29, Miguel A. Martínez-González2,3,30, Rafael De la Torre2,6,31, Fernando Fernández-Aranda1,2,29

1Dept. of Psychiatry, Univ. Hosp. of Bellvitge-IDIBELL, Barcelona, Spain,
2CIBER de Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Inst. de Salud Carlos III, Madrid, Spain,
3Univ. of Navarra, Dept. of Preventive Medicine and Public Health, Medical School, and Servicio Navarro de Salud-Osasunbidea, Navarra Inst. for Health Research, Pamplona, Spain,
4Dept. of Preventive Medicine, Univ. of Valencia, Spain,
5Human Nutrition Unit, Univ. Hosp. of Sant Joan de Reus, Dept. of Biochemistry and Biotechnology, Pere Virgili Inst. for Health Research, Rovira i Virgili Univ., Reus, Spain,
6Inst. Hosp. del Mar de Investigaciones Médicas, Barcelona, Spain,
7Univ. of Miguel Hernández, Alicante, Spain,
8CIBER de Epidemiología y Salud Pública (CIBERESP), Inst. de Salud Carlos III, Madrid, Spain
9Inst. de Investigación Sanitaria de Palma (IdISPa), Univ. Hosp. of Son Espases, Palma de Mallorca, Spain,
10Dept. of Nutrition, Food Sciences, and Physiology, Center for Nutrition Research, Univ. of Navarra, Pamplona, Spain,
11Preventive Medicine, Univ. of Malaga, Spain,
12Lipids and Atherosclerosis Unit, Maimonides Biomedical Research Inst. of Cordoba (IMIBIC), Reina Sofía Univ. Hosp., Univ. of Cordoba, Spain,
13Dept. of Internal Medicine, Institut d’Investigacions Biomèdiques August Pi Sunyer (IDIBAPS), Hosp. Clínic, Univ.
of Barcelona, Spain, 14Dept. of Preventive Medicine and Public Health, Univ. of Granada, Spain, 15Dept. of Cardiology, Univ. Hosp. Araba, Vitoria, Spain, 16Research Group on Community Nutrition and Oxidative Stress, Univ. of the Balearic Islands, Palma de Mallorca, Spain, 17Dept. of Endocrinology and Nutrition, Virgen de la Victoria Hosp., Malaga Univ., Spain, 18Research Inst. of Biomedical and Health Sciences, Univ. of Las Palmas de Gran Canaria, Spain, 19Research Group on Gene-Environment Interactions and Health, Univ. of León, Spain, 20Dept. of Family Medicine, Distrito Sanitario Atencion Primaria Sevilla, Spain, 21Dept. of Endocrinology and Nutrition, Univ. Hosp. Fundación Jiménez Díaz , Madrid, Spain, 22Lipid Unit, Dept. of Internal Medicine, Bellvitge Biomedical Research Inst. (IDIBELL)-Hosp. Universitari de Bellvitge, Hospital de Llobregat (Barcelona), Spain, 23Dept. of Endocrinology and Nutrition, Hosp. Clínico, Barcelona, Spain, 24Dept. of Cardiovascular Epidemiology and Population Genetics, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain; Madrid Inst. for Advanced Studies (IMDEA) Food Inst., Madrid, Spain, 25Dept. of Health Sciences, Univ. of Jaen, Spain, 26Endocrinology and Nutrition Dept., Hosp. Clínico San Carlos-IdISSC, Facultad de Medicina, Universidad Complutense de Madrid, Spain, 27Lipid Clinic, Endocrinology and Nutrition Service, IDIBAPS, Hosp. Clínico, Univ. of Barcelona, Spain, 28Departament de Psicobiologia i Metodologia. Universitat Autònoma de Barcelona, Spain, 29Dept. of Clinical Sciences, School of Medicine, Univ. of Barcelona, Spain, 30Harvard TH Chan School of Public Health, Dpt. Nutrition, Harvard, Univ., Boston, USA, 31Dept. of Experimental and Health Sciences, Univ. Pompeu Fabra, Barcelona, Spain

09:45-10:00

**W7-O4 | Role of GDF11 in ageing, obesity, type 2 diabetes and thyroid status: A cross-sectional study**

Juan Añon-Hidalgo, Victoria Catalán1,2,3, Amaia Rodríguez1,2,1, Beatriz Ramírez1,2,3, Camilo Silva1,2,4, Juan C. Galofré4, Javier Salvador2,4, Gema Frühbeck1,2,3,4, Javier Gomez Ambrosi1,2,3

1Metabolic Research Laboratory, Clínica Universidad de Navarra, Pamplona, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Pamplona, Spain, 3Obesity and Adipobiology Group, Instituto de Investigación Sanitaria de Navarra (IdiSNA), Pamplona, Spain, 4Dept. of Endocrinology and Nutrition, Clínica Universidad de Navarra, Pamplona, Spain

10:00-10:30 COFFEE BREAK

10:30-12:30 COMMON ACTIVITIES-MULTIDISCIPLINARY LECTURES IN ROOM MR10+11

12.30-14.30 LUNCH & POSTER VIEWING AND EVALUATION
### Joint Session: Workshop 4 and Workshop 7 | Room MR12+13

**Hepato-Gastroenterology / Lipids & Obesity-CIBEROBN**

Chairs: M. Krawczyk and M. Fernández

<table>
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<th>Session</th>
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<td>14:30-15:00</td>
<td>W4/W7-L4</td>
<td>Amphiregulin: a novel player in the regulation of liver bile acids metabolism and protection in cholestasis</td>
<td>Matías A. Ávila (Pamplona, Spain)</td>
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<td>15:00-15:30</td>
<td>W4/W7-L5</td>
<td>More metabolic syndrome after cholecystectomy. Lessons from bile acids</td>
<td>Piero Portincasa (Bari Italy)</td>
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<td>15:30-15:40</td>
<td>W4/W7-O6</td>
<td>Junk score as a marker of poor adherence to Mediterranean diet. The ‘Foie Gras’ project at work in Southern Italy</td>
<td>Raquel Lunardi Baccetto, Emilio Molina-Molina, Ornella de Bari, Domenica Maria di Palo, Paola Vitellio, Rosella Monaco, Piero Portincasa</td>
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<td>15:40-15:50</td>
<td>W4/W7-O7</td>
<td>Low levels of physical activity in a Mediterranean cohort: A real life scenario disclosed by the ‘Foie Gras’ project</td>
<td>Emilio Molina-Molina, Raquel Lunardi Baccetto, Domenica Maria di Palo, Ornella de Bari, Paola Vitellio, Rosella Monaco, Piero Portincasa</td>
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<td>15:50-16:00</td>
<td>W4/W7-O8</td>
<td>Effect of host liver cell proliferation on homing and phenotype of transplanted hepatic stellate cells after partial hepatectomy in rats</td>
<td>Aygul Shafigullina, Elvira Zaikina, Ekaterina Garanova, Angelina Titova, Mikhail Mavlikeev, Albert Rizanov, Anisa Gumerova, Andrey Kiassov</td>
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<td>1Institute Of Fundamental Medicine And Biology, Kazan, Federal Univ., Kazan, Russian Federation</td>
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<td>16:00-16:30</td>
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<td>COFFEE BREAK</td>
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Workshops

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)

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-Dominguéz¹, Paula Mera¹, Sebastián Zagmutt¹, M. Carmen Soler-Vázquez¹, Kevin Ibeas¹, Joan Carles Escolla-Gil⁴, Vicenta Llorente⁴,
Nuria Casals⁵, Antonio Zorzano¹, Gemma Fabriás², Laura Herrera¹
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
Poster session 1

Thursday, 31 May, 12.30-14.30

W1 | Phagocyte biology (P001-T to P020-T)
W2 | Mitochondria, ageing and disease (P036-T to P055-T)
W3 | Cardiology-CIBERCV (P073-T to P102-T)
W7 | Obesity-CIBEROBN (P162-T to P191-T)

W1 | Phagocyte biology (P001-T to P020-T)

P002-T | ARHGAP25 is a crucial player in the pathomechanism of rheumatoid arthritis in mice
Roland Csépányi-Kömi1, Réka Pusztai1, Tim Svanya1, Petra Lévay1, Éva Wisniewski1, Krisztina Ella1, Ágnes Sűdy1, Erzsébet Ligeti1
1Semmelweis University, Department of Physiology, Budapest, Hungary

P003-T | Altered homeostasis of peripheral neutrophils correlates with Alzheimer's disease progression
Yuan Dong1, Julien Lagarde2, Laura Xicota3, Hélène Corne2, Yannick Chantran1, Thomas Chaigneau1, Michel Bottlaender1, Marie-Claude Potier3, Pierre Aucouturier1, Guillaume Dorothée1, Marie Sarazin2, Carole Elbim1
1Inserm UMR-S 938, CdR Saint-Antoine, team “Immune System, Neuroinflammation and Neurodegenerative Diseases”, Paris, France, 2Unit of Neurology of Memory and Language, Centre Hospitalier Sainte Anne, Paris, France, 3Institut du Cerveau et de la Moelle épinière, ICM, Paris, France, 4UNIACT, NeuroSpin, Institut d’Imagerie Biomédicale, Direction des sciences du vivant, Commissariat à l’Energie Atomique, Gif-sur-Yvette, France

P004-T | The role of myeloperoxidase in the regulation of polymorphonuclear neutrophil cell death
Lukas Kubala1, Silvie Kremserova2, Anna Kocurkova3, Michaela Chorvatova4, Anna Klinke5
1International Clinical Research Center, St. Anne's University Hospital, Brno, Czech Republic, 2Institute of Biophysics of the Czech Academy of Sciences, Brno, Czech Republic, 3Department of Biochemistry, Faculty of Science MU, Brno, Czech Republic, 4Brno, Czech Republic, 5Faculty of Chemistry, Brno University of Technology, Brno, Czech Republic, 6Heart Center, University of Cologne, Cologne, Czech Republic

P005-T | The effects of natural pseurotins on functions of macrophages
Daniela Rubanova1, Ondrej Vasicek1, Jakub Svenda2, Lukas Kubala1
1Institute of Biophysics, Academy of Sciences of the Czech Republic, Brno, Czech Republic
Republic, 2Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic, 3International Clinical Research Center, St. Anne’s University Hospital, Brno, Czech Republic

P006-T | Conditionally immortalised HoxB8 mouse cells recapitulate adhesion-dependent stimulation of primary neutrophils
Julia Chu1, Barry McCormick1, Greta Mazelyte1, Sonja Vermeren1
1The University Of Edinburgh, Edinburgh, United Kingdom

P007-T | Characterization of Neutrophils Generated In Vitro From Hoxb8-transduced Myeloid Progenitor Cells
Anita Orosz1, Attila Mócsai1
1Semmelweis University School of Medicine, Department of Physiology, Budapest, Hungary

P008-T | Systemic development of non-specific inflammation after spinal cord injury
Maxim Baltin1, Elvira Yamalitdinova1, Tatyana Baltina1
1Kazan Federal Unicvercity, Kazan, Russian Federation

P010-T | Peripheral phagocyte characteristics as markers of systemic inflammation in rats with different stages of Parkinson’s disease
Maria Rudyk1, Ievgeniia Hurmach1, Vitalina Svyatetska1, Olena Prysyazhnuyk1, Taisa Dovbnych1, Oksana Skachkova2, Ganna Tolstanova1, Larysa Skivka1
1Taras Shevchenko National University Of Kyiv, Kyiv, Ukraine, 2National Cancer Institute, Kyiv, Ukraine

P011-T | Development of a fluorescence-based osteoclast fusion assay
András Erdélyi1, Dániel Csete1, Edina Simon1, Áron Pánczél1, Simon Péter Nagy1, Gergő Bordács2, Kristóf Csorba2, Zoltán Jakus3, Attila Mócsai1
1Department of Physiology, Semmelweis University School of Medicine and MTA-SE “Lendület” Inflammation Physiology Research Group, Budapest, Hungary, 2Department of Automation and Applied Informatics, University of Technology and Economics, Budapest, Hungary, 3Department of Physiology, Semmelweis University School of Medicine and MTA-SE “Lendület” Lymphatic Physiology Research Group, Budapest, Hungary

P012-T | Low doses of LPS exacerbate the inflammatory response and trigger death on TLR3-primed human monocytes
Marta Monguíó-Tortajada1,2,3, Marcella Franquesa1,4, Maria-Rosa Sarrias5,6, Francesc E. Borràs1,3,4
1REMAR-IVECAT Group Health Science Research Institute Germans Trias i Pujol, Badalona, Spain, 2ICREC Research Program Health Science Research Institute Germans Trias i Pujol, Badalona, Spain, 3Dpt. Cell Biology Physiology and Immunology, UAB, Barcelona, Spain, 4Nephrology Service Germans Trias i Pujol University Hospital,
Badalona, Spain, 1 Innate Immunity Group Health Sciences Research Institute Germans Trias i Pujol, Badalona, Spain, 2 Network for Biomedical Research in Hepatic and Digestive Diseases (CIBERehd), Madrid, Spain

P013-T | CD47-SIRPα checkpoint blockade involves kindlin3-dependent enhancement of CD11b/CD18-integrin affinity and cytotoxic synapse formation
Panagiota Bouti1, Hanke Matlung1, Michel van Houdt1, Paul Verkuijlen1, Katka Franke1, Taco W. Kuipers1, 2, Timo K. van den Berg1, 2
1 Sanquin Research and Landsteiner Laboratory, Amsterdam, The Netherlands, 2 Emma Children’s Hospital, Academic Medical Center, Amsterdam, The Netherlands

P014-T | Sodium stibogluconate in conjunction with CD47-SIRPα checkpoint blockade enables Rituximab-mediated killing of B lymphoma cells by neutrophils
Dieke Van Rees1, Michel van Houdt1, Anton Tool1, Paul Verkuijlen1, Karin Schornagel1, Katka Franke1, Taco Kuipers1, 2, Timo van den Berg1, 2, Hanke Matlung1
1 Sanquin Research And Landsteiner Laboratory, Amsterdam, The Netherlands, 2 Emma Children’s Hospital, Academic Medical Center, Amsterdam, The Netherlands

P015-T | IFNβ promotes neutrophil apoptosis and engulfment by macrophages during the resolution of inflammation
Sagie Schif1, Soaad Soboh1, Senthil Kumaran Satyanarayanan1, Sergei Butenko1, Amane kassis1, Neta Peled1, Janan Saadi1, Dalit Barkan1, Amiram Ariel1
1 Department of Human Biology, University of Haifa, Haifa, Israel

P016-T | D6/ACKR2 limits skin fibrosis: a potential role for IFNβ
Sergei Butenko1, Tsosfiya Shefer1, Edmond Sabo2, Sagie Schif-Zuck1, Amiram Ariel1
1 Department of Human Biology, University of Haifa, Haifa, Israel, 2 Department of Pathology, Rambam Medical Center, Haifa, Israel

P017-T | HLA haplotypes frequency in bone marrow donors from the Republic of Tatarstan, Russia
Albert Rizvanov1, Emmanuel Kabwe1, Konstantin Kletenkov1, Svetlana Khaiiboullina1, 2, Yuri Davidyuk1
1 Kazan Federal University, Kazan, Russian Federation, 2 University of Nevada, Reno, Reno, USA

P018-T | Characterizing the role of lymphatics in autoimmune arthritis
Petra Aradi1, Zalán Horváth1, Éva Kemecesei1, Zoltán Jakus1
1 Department Of Physiology, Semmelweis University School Of Medicine, Budapest, Hungary
P019-T | 7-ketocholesterol influences macrophage phagocytosis modulated by CPT1a
Priscila Calle1, Ángeles Muñoz, Selene Torrico, Anna Sola, Georgina Hotter
1Instituto de Investigaciones Biomédicas de Barcelona, Barcelona, Spain

P020-T | A 17 kDa fragment of lactoferrin associates with the termination of inflammation and peptides within promote resolution
Sooad Soboh1, Sagie Schif-Zuck1, Avi Lutaty1, Orly Zeituni-Timor1, Ran Rostoker1, Malgorzata J Podolska2, Luis E Munoz3, Christine Schauer2, Martin Herrmann2, Amiram Ariel1
1The Departments of Biology and Human Biology, University of Haifa, Haifa, Israel, 2Department of Internal Medicine 3 – Rheumatology and Immunology, Friedrich-Alexander-University, Erlangen, Germany

W2 | Mitochondria, ageing and disease (P036-T to P055-T)

P036-T | Upregulated levels of clusterin in urine and kidney are peculiar for nephropatia epidemica
Ekaterina Garanina1, Ekaterina Martynova1, Konstantin Ivanov1, Angelina Titova1, Yurij Davidyuk1, Venera Shakirova2, Ilseyar Khaertynova2, Albert Rizvanov1, Svetlana Khaiboullina1,3
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical Academy, Kazan, Russian Federation, 3University of Nevada, Reno, United States of America

P037-T | Effects of multi-operational mitochondria-targeted antioxidants in human hepatic cells: promising drugs for liver disease
José Carlos Teixeira1,2, Ricardo Amorim1, Rodrigo Carreira1, Fernando Cagide2, Sofia Benfeito2, Fernanda Borges2, Paulo J. Oliveira1
1CNC – Center For Neuroscience And Cell Biology, University Of Coimbra, Cantanhede, Portugal, 2CIQUP/Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Porto, Portugal

Igor Antipin1, Vladimir Burilov1, Regina Ibragimova1, Guzaliya Fatikhova1, Diana Mironova1, Elza Sultanova1, Svetlana Solovieva1
1Kazan Federal University, Kazan, Russian Federation

P039-T | Amphiphilic Carboxycalixresorcinols as Supramolecular Nanocontainers for Novel Azo-Dye-Modified Isatin Derivative
Igor Antipin1,2, Yulia Morozova1,2, Andrey Bogdanov2, Victor Syakaev2, Alexandra Voloshina2, Yana Shalaeva1,2, Alina Ermakova1,2, Vladimir Zobov2, Vladimir Mironov2
1Kazan Federal University, Kazan, Russian Federation, 2A. E. Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russian Federation
P040-T | Generation and analysis of mesenchymal stem cell line stably expressing IL2
Daria Chulpanova¹, Valeria Solovyeva, Leysan Tazetdinova¹, Sevindzh Kletukhina¹, Albert Rizvanov²
¹Kazan Federal University, Kazan, Russian Federation

P041-T | Viability and ultrastructure of human mesenchymal stem cells primed with cisplatin
Leysan Tazetdinova¹, Zarema Gilazieva¹, Svetlana Arkhipova¹, Valeriya Solovyeva¹, Ekaterina Alekseeva¹, Almaz Gallyamov¹, Daria Chulpanova¹, Albert Rizvanov²
¹Kazan Federal University, Kazan, Russian Federation

P042-T | Histone H1.3 decrease efficiency of hantavirus infection in A549 cells in vitro
Daria Chulpanova¹, Valeria Solovyeva¹, Svetlana Khaiboullina¹,², Albert Rizvanov²
¹Kazan Federal University, Kazan, Russian Federation, ²University of Nevada, Reno, Reno, USA

P043-T | The trophic role of mesenchymal stem cells in co-culture with neuroblastoma cells
Kristina Kitaeva¹, Tikhon Prudnikov¹, Albert Rizvanov², Valeria Solovyeva¹
¹Kazan Federal University, Kazan, Russian Federation

P044-T | CCR5 genotype determines IL-9 and IL-32 secretion in nephropatia epidemica
Ekaterina Garanina², Konstantin Kletenkov¹, Ekaterina Martynova¹, Yurii Davidyuk¹, Emmanuel Kabwe¹, Egor Okhezin¹, Venera Shakirova¹², Ilseyar Khaertynova¹, Albert Rizvanov¹, Sergey Morzunov¹,², Svetlana Khaiboullina¹,²
¹Kazan Federal University, Kazan, Russian Federation, ²Kazan State Medical Academy, Kazan, Russian Federation, ³University of Nevada, Reno, United States of America

P045-T | Optimization of experimental and computational processes to study mitochondrial trafficking and metabolic biomarkers
Rui Fernando Vieira Lisboa Simões, Teresa Cunha-Oliveira¹, Paulo J Oliveira¹, Francisco B Pereira²,³
¹CNC - Center for Neuroscience and Cell Biology, University of Coimbra, Cantanhede, Portugal, ²CISUC-Centre for Informatics and Systems, University of Coimbra, Coimbra, Portugal, ³Polytechnic Institute of Coimbra, Coimbra, Portugal

P046-T | Targeting dietary antioxidants to mitochondria ameliorate metabolic alterations of skin fibroblasts from patients with sporadic Parkinson's Disease
Cláudia M. Deus¹,², Susana P. Pereira¹, Teresa Cunha-Oliveira¹, Sofia Benfeito³, Fernando Cagide³, Fernanda Borges³, Nuno Raimundo⁴, Paulo J. Oliveira¹,²
¹Center For Neuroscience And Cell Biology, University Of Coimbra, Cantanhede, Portugal, ²IIUC, Institute for Interdisciplinary Research, University Of Coimbra, Coimbra, Portugal, ³CIQUP/Department of Chemistry and Biochemistry, Faculty of Sciences,
University of Porto, Porto, Portugal, 4Institute of Cellular Biochemistry, University Medical Center Goettingen, Goettingen, Germany

P047-T | Changes of the pancreas in experimental diabetes mellitus in rats after administration of alloxan
Angelina Titova1, Mikhail Mavlikeev1, Maksim Kaligin1, Dilyara Syleimanova1, Andrey Kiyasov1, Roman Deev2,3
1Kazan Federal University, Kazan, Russian Federation, 2Institute of Human Stem Cells, Moscow, Russian Federation, 3Ryazan State Medical University named after academician I.P. Pavlov, Ryazan, Russian Federation

P048-T | Mitochondriotropic cinnamic acid antioxidants increase cellular stress responses in HepG2 cells: Involvement of mitochondrial ROS signaling in a possible therapy for hepatic steatosis?
Ricardo Amorim1,3, José Teixeira1,3, Sofia Benfeito1, Fernando Cagide1, Jorge Garrido1,2, Paulo Oliveira1, Fernanda Borges1
1CIQ/ Department of Chemistry and Biochemistry, Faculty of Science, University of Porto, Porto, Portugal, 2Department of Chemical Engineering, School of Engineering (ISEP), Polytechnic Institute of Porto, Porto, Portugal, 3CNC - Center For Neuroscience And Cell Biology, Coimbra, Portugal

P049-T | Histochemical analysis of self-organizing 3D spheroid-like cultures of adipose-derived mesenchymal stem cells
Aygul Shafigullina1, Angelina Titova1, Albert Rizvanov1, Anisa Gumerova1, Andrey Kiyasov1
1Institute Of Fundamental Medicine And Biology, Kazan (volga Region) Federal University, Kazan, Russian Federation

P050-T | Isocitrate dehydrogenase 2 deficiency exacerbates dermis damage by ultraviolet-B
Hyeong Jun Ku1, Jung Hyun Park1, Jeen-Woo Park1
1Kyungpook National University, Taegu, South Korea

P051-T | Effects of the caffeine on the snails training through the regulation of Ca2+ concentration trough ryanodine receptors of the endoplasmic reticulum and mitochondria
Tatiana Bogodvid1,2, Dinara Silantieva1, Vyatcheslav Andrianov1, Lyudmila Muranova1, Irina Deryabina1, Khalil Gainutdinov1
1Kazan Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation, 2Volga Region State Academy of Physical Culture, Sport and Tourism, Kazan, Russian Federation
P052-T | Dynamics of nitric oxide production in the rat hippocampus as one of the mechanisms of inflammation during ischemic and hemorrhagic insult
Tatiana Bogodvid¹, Vyatcheslav Andrianov¹,², Guzel Yafarova¹,², Vasilii Iyudin², Svetlana Pashkevich³, Margarita Dosina¹, Tatiana Baltina¹, Vladimir Kulchitsky³, Khalil Gainutdinov¹,²
¹Kazan Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation, ²Zavoisky Physical-Technical Institute of RAS, Kazan, Russian Federation, ³Institute of Physiology of NAS Belarus, Minsk, Belarus

P053-T | Effects of inhibition of tryptophan hydroxylase synthesis on context memory
Tatiana Bogodvid¹,², Irina Deryabina¹, Vyatcheslav Andrianov¹, Lyudmila Muranova¹, Dinara Silantieva¹, Khalil Gainutdinov¹
¹Kazan Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation, ²Volga Region State Academy of Physical Culture, Sport and Tourism, Kazan, Russian Federation

W3 | Cardiology-CIBERCV (P073-T to P102-T)

P073-T | Glomerular filtration rate is associated with free triiodothyronine in euthyroid subjects: comparison between various equations to estimate renal function and creatinine clearance
Robin Dullaart¹, Lynnda van Tienhoven-Wind¹, Eke Gruppen¹, Ronald Gansevoort¹, Stephan Bakker¹
¹University Of Groningen, Groningen, Netherlands

P074-T | Pre-surgery C-reactive protein levels can predict diabetes remission following bariatric surgery
Aldo Bonaventura¹, Luca Liberale¹,², Federico Carbone¹, Alessandra Vecchié¹, Renzo Cordera³, Giovanni Adami¹, Franco Dallegr¹, Fabrizio Montecucco¹, ²Diabetology Unit, Department of Internal Medicine, University of Genoa, Genoa, Italy, ³Centre of Excellence for Biomedical Research (CEBR), University of Genoa, Genoa, Italy

P075-T | Proteomic signature of circulating extracellular vesicles in dilated cardiomyopathy
Santiago Roura¹,², Ana Gámez-Valero³, Josep Lupón², Carolina Gálvez-Montón¹,², Francesc E. Borràs³, Antoni Bayes-Genís¹,², ³ICREC Research Programme, Fundació Institut d’Investigació Germans Trias i Pujol (IGTP), Badalona, Spain, ²CIBERCV, Instituto de Salud Carlos III, Madrid, Spain, ³REMAR-IVECAT Group, IGTP, Badalona, Spain, ²Cardiology Service, Germans Trias i Pujol University Hospital, Badalona, Spain
P076-T | Metabolic profiling reveals significant alterations in glycerophospholipid and sphingolipid content in hearts from rats treated with relaxin
Alana Aragón-Herrera1, Sandra Feijóo-Bandín1,5, Vanessa Abella1,5, Oreste Gualillo2, Esther Roselló-Lleti1,5, Manuel Portolés1,5, Miguel Rivera3,5, Mario Bigazzi4, Daniele Bani4, José Ramón González-Juanatey1,5, Francisca Lago1,5
1Cellular and Molecular Cardiology Unit and Department of Cardiology, Institute of Biomedical Research (IDIS-SERGAS), Santiago de Compostela, Spain, 2Neuroendocrine Interactions in Rheumatology and Inflammatory Diseases Unit, Institute of Biomedical Research (IDIS-SERGAS), Santiago de Compostela, Spain, 3Cardiocirculatory Unit, Health Institute of La Fe University Hospital (IIS La Fe), Valencia, Spain, 4Department of Experimental and Clinical Medicine, Research Unit of Histology & Embryology, University of Florence, Florence, Italy, 5CIBERCV, Institute of Health Carlos III, Madrid, Spain

P077-T | Leukotriene B4 plasma levels are associated to AAA prevalence and progression
Raquel Roldan-montero1,2, JES S. LINDHOLT3, DIEGO MARTINEZ-LOPEZ1, LUIS M. BLANCO-COLIO1,2, JOSE L. MARTIN-VENTURA1,2
1Fiis-Fundacion Jimenez Diaz, Madrid, Spain, 2CIBER-CV, 3Elitary Research Centre of Individualized Medicine in Arterial Disease (CIMA), Department of Cardiothoracic and Vascular Surgery, Odense University Hospital, ODENSE, DENMARK

P078-T | Coronary artery disease with silent myocardial ischemia
Alsu Abdrahmanova1, Ildar Abdulyanov2, Raushania Gaifullina3, Leisan Valeeva1
1Kazan Federal University, Kazan, Russian Federation, 2Interregional Clinical Diagnostic Center, Kazan, Russian Federation

P079-T | Surgical treatment of patients with aortic stenosis and low ejection fraction
Alsu Abdrahmanova1, Ildar Abdulyanov2, Raushania Gaifullina4, Rezeda Khasanova1, Yulia Oslopova1, Farida Rizvanova3
1Kazan Federal University, Kazan, Russian Federation, 2Interregional Clinical Diagnostic Center, Kazan, Russian Federation, 3Kazan State Medical University, Kazan, Russian Federation

P080-T | Hystochrome for acute coronary syndrome patients with cardiac rhythm disorder
Raushania Gaifullina4, Zulfia Kim2, Leisan Valeeva1
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical University, Kazan, Russian Federation

P081-T | Contribution of chronic endoplasmic reticulum stress and oxysterols to abdominal aortic aneurysm disease
María Galán1,2, Miquel Navas-Madroñal1, Cristina Rodriguez2,3, Joan Fité4, Luis Vila1,3, José Martínez-González1,3, Mercedes Camacho1,3
P082-T | Inhibition of enzymes involved in collagen cross-linking reduces vascular smooth muscle cell calcification

Cristina Rodríguez1,2, Eva Jover1, Ana Silvente3, Francisco Marín2,3, José Martínez-González2,4, Mar Orriols2, Carlos M. Martínez5, Carmen María Puche3, Mariano Valdés2,3, Diana Hernández-Romero2,3
1Institut de Recerca del Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, 2Instituto de Investigación Biomédica Sant Pau (IIB Sant Pau), Barcelona, Spain, 3CIBER de Enfermedades Cardiovasculares, Madrid, Spain, 4Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), IIB Sant Pau, Barcelona, Spain

P083-T | NOR-1 overexpression potentiates cardiac hypertrophy: results from a new transgenic animal model

Laia Cañes1,2, Ingrid Martí-Pàmies2, Judith Alonso2, María Galan3, Pedro Muniesa4, Jesús Osada4,5, Cristina Rodríguez2,3, José Martínez-González1,2
1Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), IIB-Sant Pau, Barcelona, Spain, 2CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain, 3Institut de Recerca del Hospital de la Santa Creu i Sant Pau-Programa ICCC, IIB-Sant Pau, Barcelona, Spain, 4Facultad de Veterinaria, Universidad de Zaragoza, Zaragoza, Spain, 5CIBER de Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Madrid, Spain

P084-T | TMAO new biomarker for disease severity in peripheral arterial disease

Carmen Roncal1,2, Esther Martínez-Aguilar3,4, Josune Orbe1,2,3, Ander Estella-Hermoso de Mendoza1, Jose A. Rodriguez1,2,3, Sebastián Fernandez-Alonso3,4, Leopoldo Fernandez-Alonso3,4, Julen Oyarzabal5, Jose A. Paramo1,2,3,6
1Laboratory of Atherothrombosis, Program of Cardiovascular Diseases, CIMA-Universidad de Navarra, Pamplona, Spain, 2CIBER-CV, Spain, 3IdiSA, Spain, 4Departamento de Angiología y Cirugía Vascular, Complejo Hospitalario de Navarra, Pamplona, Spain, 5Small Molecules Platform, Program of Molecular Therapies, CIMA-University of Navarra, Pamplona, Spain, 6Hematology Service, Clínica Universidad de Navarra, University of Navarra, Pamplona, Spain
P085-T | PGE₂ derived from microsomal prostaglandin e synthase-1 induces vascular oxidative stress from nadph oxidase and mitochondria and mediates vascular dysfunction in hypertension
Ana B. García-Redondo¹², María S. Avendaño¹, Andrea Aguado¹, María González-Amor², Sonia Martínez-Revelles¹²³, Mercedes Camacho²³, Victoria Cachofeiro²³, María J. Alonso²⁵, Guillermo Zalba²⁶, Mercedes Salaices¹², Ana Briones¹²
¹Departamento de Farmacología, Universidad Autónoma de Madrid, Instituto de Investigación Hospital Universitario La Paz (IdiPAZ), Madrid, Spain, ²Ciber de Enfermedades Cardiovasculares, Spain, ³Laboratorio de Angiología, Biología Vascular e Inflamación. Instituto de Investigación Biomédica (IIB San Pablo), Barcelona, Spain, ⁴Departamento de Fisiología, Facultad de Medicina, Universidad Complutense de Madrid, Instituto de Investigación Sanitaria Gregorio Marañón (IISGM), Madrid, Spain, ⁵Departamento de Ciencias Básicas de la Salud, Universidad Rey Juan Carlos, Madrid, Spain, ⁶Departamento de Bioquímica y Genética, Universidad de Navarra y IdiSNIA, Instituto de Investigación Sanitaria de Navarra (IdiSNIA)., Pamplona, Spain

P086-T | Human lysyl oxidase overexpression does not modify infarct size in mice
Laura Valls-Lacalle¹², Michela Pecoraro¹², Saray Varona²³, Jose Martínez-González²³, Cristina Rodríguez¹², Antonio Rodríguez-Sinovas¹², David García-Dorado¹²
¹Vall D’hebron University Hospital and Research Institute, Cardiovascular Diseases Research Group, Barcelona, Spain, ²CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain, ³Instituto de Investigaciones Biomédicas de Barcelona (IIB-CSIC), IIB-Sant Pau, Barcelona, Spain, ⁴Institut de Recerca del Hospital de la Santa Creu i Sant Pau-Programa ICCC, IIB-Sant Pau, Barcelona, Spain

P088-T | Importance of NT pro BNP in management of chronic ischemic patient to prevent heart failure
Irina Dimitriu¹, Delia Voiculescu¹, Andreea Lacraru¹, Crina Sinescu¹
¹University Of Medicine And Pharmacy “Carol Davila”, Bucharest, Romania

P089-T | Oral pharmacological inhibition of calpains attenuates isoproterenol-induced myocardial hypertrophy and fibrosis
David Aluja¹, Javier Inserte¹, José Castellano¹, Petronila Penela², Federico Mayor², David García-Dorado¹
¹Cardiovascular Diseases Research Group. Vall de Hebron Research Institute. CIBER-CV, Barcelona, Spain, ²Departamento de Biología Molecular y Centro de Biología Molecular Severo Ochoa, CSIC-UAM, CIBER-CV, Madrid, Spain

P090-T | Epigenetic regulation through miR-139-5p during human monocyte-to macrophage differentiation
Rafael Escate¹², Teresa Padro¹², Lina Badimon¹²
¹Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital De La Santa Creu i Sant Pau, Barcelona, Spain, ²CiberCV, Institute Carlos III, Barcelona, Spain, ³Barcelona, Spain
P091-T | Impact of dietary-induced hypercholesterolemia on HDL-delivery of miRNAs to endothelial cells
Soumaya Ben-Aicha1,2, Sandra Camino1,2, Rafael Escate1,2, Laura Casani1,2, Guiomar Mendieta1, Teresa Padro1,2, Lina Badimon1,2, Gemma Vilahur1,2
1Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital De La Santa Creu i Sant Pau, Barcelona, Spain, 2CiberCV, Institute Carlos III, Barcelona, Spain, 3Department of Cardiology, Clinic Hospital, Barcelona, Barcelona, Spain

P092-T | Dynamics of nitric oxide production in the rat heart during hypokinesia: effects of inhibitors of NO-synthase L-NAME and aminogyanidine
Tatiana Bogodvid1,2, Timur Zefirov3, Vyatcheslav Andrianov1,3, Guzel Yafarova1,3, Railya Zaripova1, Nafisa Ziatdinova1, Farid Sildikov1, Vasiliy Iyudin3, Khalil Gainutdinov1,3
1Kazan Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation, 2Volga Region State Academy of Physical Culture, Sport and Tourism, Kazan, Russian Federation, 3Zavoisky Physical-Technical Institute of RAS, Kazan, Russian Federation

P093-T | A multi-biomarker pannel of myocardial remodelling provides incremental prognostic value in heart failure patients
María U Moreno1, Susana Ravassa1, Catalina Gallego2, Ramón Querejeta3, Begoña López4, Archie Campbell5, Ann-Marie Jennings5, Gorka San José6, Francisco Javier Beaumont1, Sandosh Padmanabhan6, Anna F Dominiczak6, Arantxa González1, 13 Javier Diez1,7, Christian Delles6
1University of Navarra, CIMA, Program of Cardiovascular Diseases, Pamplona, Spain; IdiSNA, Navarra Institute for Health Research, Pamplona, Spain; CIBERCV, Carlos III Institute of Health, Madrid, Spain, 2Division of Cardiology, Cardiovid Clinic, Medellín, Colombia, 3Donostia University Hospital, University of the Basque Country, and Biodonostia Research Institute, San Sebastian, Spain, 4Generation Scotland, Centre for Genomic and Experimental Medicine, Institute of Genetics and Molecular Medicine, University of Edinburgh, UK, 5Randox Laboratories, Crumlin, Northern Ireland, 6Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK, 7Department of Cardiology and Cardiac Surgery, University of Navarra Clinic, Pamplona, Spain

P094-T | Contraction (retraction) of blood clots as a pathogenic factor in thrombosis
Alina Dmitrievna Peshkova1, Rustem Igorevich Litvinov1,2
1Kazan Federal University, Kazan, Russian Federation, 2University of Pennsylvania School of Medicine, Philadelphia, USA

P095-T | Vegetative regulation of heart activity in conditions of electrical stimulation of the spinal cord
Artur Fedianin2, Gusel Yafarova1, Alena Militskova1, Leisans Bikchentaeva1, Tatyana Baltina1
1Kazan (Volga region) Federal University, Kazan, Russian Federation
P096-T | Determinants of thrombosis: Activation of canonical Wnt pathway
Maria Borrell1, Javier Crespo1, Ester Peña1, Lina Badimon1
1Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital de la Santa Creu i Sant Pau, UAB, CIBERCV, Barcelona, Spain

P097-T | The Human Heart Post-translational Proteome: modified proteins as markers of aging and type 2 diabetes in the context of cardiovascular disease
María Gómez-Serrano1, Inmaculada Jorge1,2, Celia Castans1, Navratan Bagwan1, Elena Bonzón-Kulichenko1,2, Irene Sánchez de Puerta1, Marisol Ruiz-Meana2,3, David García-Dorado2,3, Jesús Vázquez1,2
1Spanish Centre for Cardiovascular Research (CNIC) – Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III, Madrid, Spain, 2Centro de Investigación Biomédica en Red sobre Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain, 3Department of Cardiology, Vall d’Hebron University Hospital and Research Institute, Universitat Autònoma de Barcelona, Barcelona, Spain

P098-T | Hallmarks of early damage upon ischemia/reperfusion in a pig myocardial infarction model
Inmaculada Jorge1, Aleksandra Binek1, Rodrigo Fernández-Jiménez1,2,3, Celia Castans1, Carlos Galán-Arriola1,2, Emilio Camarena1,2, Andrés Pun1,3, Borja Ibáñez1,2,3, Jesús Vázquez1,2,3
1Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain, 2The Zena and Michael A. Wiener CVI, Icahn School of Medicine at Mount Sinai, New York, USA, 3CIBER de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain

P099-T | Modulation of GRK2 levels and functionality in myocardial ischemia/reperfusion and impact in the regulation of cardioprotective signaling pathways
Petronila Penela1, Paula Ramos1, Javier Inserte2, David Gracia-Dorado2, Federico Mayor1
1Departamento de Biología Molecular, Universidad Autónoma de Madrid y Centro De Biología Molecular Severo Ochoa, CSIC-UAM, Madrid, Spain, 2Servicio de Cardiología, Hospital Universitari Vall d’Hebron, Universitat Autònoma de Barcelona, Barcelona, Spain

P100-T | Role of NDUFAF2 in basal heart tolerance against isquemia-reperfusion injury
Daniel Tello1, Qilong Oscar Yang Li1, Marisol Ruiz-Meana2, Javier Inserte2, David Garcia-Dorado2, Julián Aragonés1
1Research Unit, Hospital of Santa Cristina, Research Institute Princesa (IP), Autonomous University of Madrid, Madrid, Spain. CIBER de Enfermedades Cardiovasculares, Carlos III Health Institute, Madrid, Spain, 2Department of Cardiology, Universitat Autònoma de Barcelona, Barcelona, Spain; Laboratory of Experimental Cardiology, Universitat Autònoma de Barcelona, Barcelona, Spain. CIBER de Enfermedades Cardiovasculares, Carlos III Health Institute, Madrid, Spain.
P101-T | The mitochondrial antioxidant MitoQ improves the metabolic consequences associated with obesity
Gema Marín-Royo1, Aliaume Le Pape1, Raquel Jurado-López1, Ernesto Martínez-Martínez1, Cristina Rodríguez2, José Martínez-González3, Victoria Cachofeiro1
1Departamento De Fisiología, Facultad De Medicina, Ucm, Madrid, Spain, 2Institut de Recerca del Hospital de la Santa Creu i Sant Pau-Programa ICCC, IIB-Sant Pau, Barcelona, Spain, 3Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), IIB-Sant Pau, Barcelona, Spain

P102-T | Arylesterase – prognostic factor for one-year reinfarction in patients with acute myocardial infarction
Lorena Ciumarnean1, Antonia Macarie2, Mihai Greavu3, Mircea Milaciu1, Tiberiu Moldovan4, Stefan Vesa5
1Department of Internal Medicine, “Iuliu Hațegianu” University of Medicine and Pharmacy, Cluj-Napoca, Romania, 2Department of Geriatrics and Gerontology, “Iuliu Hațegianu” University of Medicine and Pharmacy, Cluj-Napoca, Romania, 3Department of Internal Medicine, “Transilvania” University, Brasov, Romania, 4Oncology Institute “Prof. Ion Chiricuță”, Cluj-Napoca, Romania, 5Department of Pharmacology, Toxicology and Clinical Pharmacology, “Iuliu Hațegianu” University of Medicine and Pharmacy, Cluj-Napoca, Romania

P162-T | Role of ghrelin and glucagon-like peptide-1 in aquaporin-7-induced insulin secretion and triacylglycerol accumulation in rat β-cells
Amaia Rodríguez1,6, Leire Méndez-Giménez1,6, Sara Becerril1,6, Sèrgio Camões2, Inês Viera de Silva2, Claudia Rodrigues2, Rafael Moncada3,6, Víctor Valentí4,6, Victoria Catalán1,6, Javier Gómez-Ambrosi1,6, Joana P Miranda2, Graça Soveral2, Gema Frühbeck1,4,6
1Metabolic Research Laboratory, Clínica Universidad de Navarra, Pamplona, Spain, 2Research Institute for Medicines (iMed.ULisboa), Universidade de Lisboa, Lisboa, Portugal, 3Department of Anesthesia, Clínica Universidad de Navarra, Pamplona, Spain, 4Department of Surgery, Clínica Universidad de Navarra, Pamplona, Spain, 5Department of Endocrinology & Nutrition, Clínica Universidad de Navarra, Pamplona, Spain, 6CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, , Spain

P163-T | Sleeve gastrectomy and Roux-en-Y gastric bypass improve hepatic inflammation in diet-induced obese rats
Silvia Ezquerro1,5, Leire Méndez-Giménez1,5, Sara Becerril1,5, Rafael Moncada2,5, Víctor Valentí3,5, Victoria Catalán1,5, Javier Gómez-Ambrosi1,5, Gema Frühbeck1,4,5, Amaia Rodríguez1,5
1Metabolic Research Laboratory, Clínica Universidad De Navarra, Pamplona, Spain, 2Department of Anesthesia, Clínica Universidad de Navarra, Pamplona, Spain,
P164-T | Role of leptin in inflammation and extracellular remodelling of adipose tissue via nitric oxide
Sara Becerril1,2,3, Amaia Rodríguez1,2,3, Victoria Catalán1,2,3, Leire Méndez-Giménez1,2,3, Beatriz Ramírez1,2,3, Neira Sainz1, Marcos Llorente4, Xabier Unamuno4, Javier Gómez-Ambrosi1,2,3, Gema Frühbeck1,2,3,5
1Metabolic Research Laboratory, Clínica Universidad de Navarra, Pamplona, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain

P165-T | Increased levels of the extracellular matrix proteins osteopontin, chitinase-3 like-1 and tenascin C in obese patients with colon cancer
Victoria Catalán1,2, Javier Gómez-Ambrosi1,2, Amaia Rodríguez1,2, Beatriz Ramírez1,2, Maitane Izaguirre1, José Luis Hernández-Lizoaín1, Jorge Baixauli1, Victor Valentí2,3, Rafael Moncada2,4, Camilo Silva2,5, Javier Salvador2,5, Gema Frühbeck1,2,5
1Metabolic Research Laboratory, Clínica Universidad de Navarra, Pamplona, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Pamplona, Spain, 3Department of Surgery, Clínica Universidad de Navarra, Pamplona, Spain, 4Department of Anesthesia, Clínica Universidad de Navarra, Pamplona, Spain, 5Department of Endocrinology, Clínica Universidad de Navarra, Pamplona, Spain

P166-T | Altered leptin-adiponectin axis in the metabolic syndrome denote a dysfunctional adipose tissue associated with inflammation and oxidative stress in mice and humans
Javier Gómez-Ambrosi1,2,3, Victoria Catalán1,2,3, Amaia Rodríguez1,2,3, Beatriz Ramírez1,2,3, Sara Becerril1,2,3, Javier Salvador1,2,4, Piero Portincasa5, Inmaculada Colina5,6, Gema Frühbeck1,2,3,4
1Metabolic Reserch Lab. Clínica Universidad de Navarra, Pamplona, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Pamplona, Spain, 3Obesity and Adipobiology Group, Instituto de Investigación Sanitaria de Navarra (IdiSNA), Pamplona, Spain, 4Department of Endocrinology & Nutrition, Clínica Universidad de Navarra, Pamplona, Spain, 5Clinica Medica “A. Murri”, Department of Biomedical Sciences and Human Oncology, University of Bari Medical School, Policlinico Hospital, Bari, Italy, 6Department of Internal Medicine, Clínica Universidad de Navarra, Pamplona, Spain
P167-T | Patients with functional bowel disorder: effectiveness of a diet low in FODMAPs for the treatment of gastrointestinal symptoms
Patricia Ibañez, Neus Vila, Virginia Santesteban, Jesús Ramón Angós, Maria Teresa Betes, Cristina Carretero, Susana de la Riva, Maite Herraz, César Prieto de frías, Camilo Silva, Maria Angeles Margall

1 Area of Nutrition, Department of Endocrinology and Nutrition, Clinic of University of Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, 2 Area of Nutrition, Department of Endocrinology and Nutrition, Clinic of University of Navarra, IdiSNA, Pamplona, Spain, 3 Area of Nutrition, Department of Endocrinology and Nutrition, Clinic of University of Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, 4 Department of Gastroenterology, Clinic of Univ. of Navarra, Pamplona, Spain, 5 Dept. of Gastroenterology, Clinic of Univ. of Navarra, Pamplona, Spain, 6 Dept. of Gastroenterology, Clinic of Univ. of Navarra, Pamplona, Spain, 7 Dept. of Gastroenterology, Clinic of Univ. of Navarra, Pamplona, Spain, 8 Dept. of Endocrinology and Nutrition, Clinic of Univ. of Navarra, CIBEROBN, Pamplona, Spain, 9 Dept. of Endocrinology and Nutrition, Clinic of Univ. of Navarra, IdiSNA, Pamplona, Spain

P168-T | The reduction of matrix metalloproteinase-8 serum levels after bariatric surgery is associated with leptin drop and predicts diabetes remission
Luca Liberale, Aldo Bonaventura, Federico Carbone, Maria Bertolotto, Paola Contini, Nicola Scopinaro, Giovanni Bruno Camerini, Francesco Saverio Papadia, Renzo Cordera, Giovanni Guido Camici, Franco Dallegri, Gian Franco Adami, Fabrizio Montecucco

1 Center for Molecular Cardiology, University of Zurich, Zurich, Switzerland, 2 First Clinic of Internal Medicine, Department of Internal Medicine, University of Genoa, Genoa, Italy, 3 Clinical Immunology, Department of Internal Medicine, University of Genoa, Genoa, Italy, 4 International Federation of Surgery for Obesity, Genoa, Italy, 5 Department of Surgery, University of Genoa, Genoa, Italy, 6 Diabetology Unit, Department of Internal Medicine, University of Genoa, Genoa, Italy, 7 First Clinic of Internal Medicine, Ospedale Policlinico San Martino, Genoa, Italy, 8 Center of excellence for Biomedical Research, University of Genova, Genoa, Italy

P169-T | Effects of Roux-en-Y gastric bypass on adiposity and blood pressure in diet-induced obese rats

1 Metabolic Research Laboratory, Clinica Universidad de Navarra, Pamplona, Spain, 2 Medical Engineering Laboratory, University of Navarra, Pamplona, Spain, 3 CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Pamplona, Spain, 4 Obesity and Adipobiology Group, Instituto de Investigación Sanitaria de Navarra (IdiSNA), Pamplona,
P170-T | Decreased TLR3 in hyperplastic adipose tissue, blood and inflamed adipocytes is related to metabolic inflammation
Aina LLUCH1,2,3, Jèssica LATORRE2,3,4, José M MORENO-NAVARRETE2,3,4, Mónica SABATER2,3,4, Maria Buxó5, José I RODRIGUEZ-HERMOSA5, Jordi GIRONES2,5, Wifredo RICART2,3,4, Ramón VILALLONGA6, Rafael SIMÓ7, José M FERNÁNDEZ-REAL2,3,4, Francisco J ORTEGA2,3,4
1Institut d’Investigació Biomèdica de Bellvitge (IDIBELL), Barcelona, Spain, 2Institut d’Investigació Biomèdica de Girona (IdIBGi), Girona, Spain, 3Department of Diabetes, Endocrinology and Nutrition (UDEN), Hospital of Girona Dr Josep Trueta, Girona, Spain, 4CIBEROBN and Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 5Department of Surgery, Hospital of Girona “Dr Josep Trueta”, Girona, Spain, 6Servicio de Cirugía General, Unidad de Cirugía Endocrina, Bariátrica y Metabólica, Hospital Universitario Vall d’Hebron, European Center of Excellence (EAC-BS), Barcelona, Spain, 7Diabetes and Metabolism Research Unit, Vall d’Hebron Research Institute, Universitat Autònoma de Barcelona, CIBERDEM and Instituto de Salud Carlos III (ISCIII), Barcelona, Spain

P171-T | Adipose tissue and circulating lysozyme in association with obesity-related metabolic disturbances
Jèssica Latorre1,2,3, José M Moreno-Navarrete1,2,3, Francisco J Ortega1,2,3, Mònica Sabater1,2,3, Amaia Rodríguez4, Sara Becerril4, Gema Frühbeck4, Ramon Vilallonga5, Rafael Simó6, Wifredo Ricart1,2,3, José M Fernández-Real1,2,3
1Institut d’Investigació Biomèdica de Girona Dr. Josep Trueta (IdIBGi), Girona, Spain, 2CIBER de la Fisiología de la Obesidad y la Nutrición (CIBERobn), Madrid, Spain, 3Department of Diabetes, Endocrinology and Nutrition (UDEN), Hospital of Girona Dr Josep Trueta, Girona, Spain, 4Laboratorio de Investigación Metabólica, Clínica Universidad de Navarra (IdiSNA), Pamplona, Spain, 5Servicio de Cirugía General, Unidad de Cirugía Endocrina, Bariátrica y Metabólica, Hospital Universitario Vall d’Hebron, European Center of Excellence (EAC-BS), Barcelona, Spain, 6Diabetes and Metabolism Research Unit, Vall d’Hebron Research Institute, Universitat Autònoma de Barcelona, CIBERDEM and Instituto de Salud Carlos III (ISCIII), Barcelona, Spain

P172-T | Impact of weight loss in a metabolically healthy pediatric population subject to mediterranean diet and physical exercise
Maite Muñoz Melero1, Cristina Gallardo Escribano1, Antonio Vargas Candela1, Alberto Vilches Pérez1, Paula Moya Rodriguez1, Javier Benitez Porrez2, Angel Ramón Romance García2, Antonio Rosales Jaime3, Juan Díaz Ruíz4, Francisco J Tinahones1, Ricardo Gómez Huelgas1, Rosa Bernal López1
1Institute Of Biomedical Research In Malaga (ibima), Regional University Hospital Of Malaga, Málaga, Spain, 2University of Malaga, Málaga, Spain, 3School Medical, Medical team orientation north Malaga, Málaga, Spain, 4Cartama Estacion Health Center, Málaga, Spain
P173-T | Evaluation of Meissner corpuscles and Merkel cells in diabetic neuropathy
Yolanda García-Mesa1, Jorge García-Piqueras3, Jorge Feito Pérez2, Roberto Cabo Pérez1, Jose Antonio Vega Álvarez1, Olivia García-Suárez1
1University Of Oviedo. Department of Cell Biology and Morphology, Oviedo, Spain, 2Complejo Asistencial Universitario de Salamanca, Salamanca, Spain

P174-T | miR-1976 regulates CD40 expression in adipocytes by binding to its 3'-UTR region
J.A. Martinez1,2,3, Marcos Garcia-Lacarte1, Gaby Åström4, Mikael Rydén5, F.I. Milagro1,2,3
1Department of Nutrition, Food Science and Physiology, Centre for Nutrition Research, University of Navarra, Pamplona, Spain, 2CIBERobn, Physiopathology of Obesity and Nutrition, Center of Biomedical Research Network, ISCIII, Madrid, Spain, 3IdiSNA, Navarra’s Health Research Institute, Pamplona, Spain, 4Department of Medicine, Karolinska Institutet, c2-94, Karolinska University Hospital Huddinge, Stockholm, Sweden

P175-T | The importance of the intrauterine environment on longevity - gestational obesity as prediction factor for reduced lifespan in descendants
Diana-Elena Comandasu1, Bogdana Virgolici2, Maria Mohora2, Claudia Mehedintu3, Costin Berceanu4, Elvira Bratila1
1“Carol Davila” University of Medicine and Pharmacy, Department of Obstetrics and Gynecology, “Panait Sarbu” Clinical Obstetrics Gynecology Hospital, Bucharest, Romania, 2“Carol Davila” University of Medicine and Pharmacy, Department of Biochemistry, Bucharest, Romania, 3“Carol Davila” University of Medicine and Pharmacy, Department of Obstetrics and Gynecology, “Nicolae Malaxa” Clinical Emergency Hospital, Bucharest, Romania, 4Craiova University of Medicine and Pharmacy, Department of Obstetrics and Gynecology, Craiova County Hospital, Craiova, Romania

P176-T | The ratio of Erysipelotrichaceae/Alistipes putredinis as a novel biomarker of obesity-associated gut dysbiosis in humans
Mònica Sabater-Masdeu1, Maria Encarnación Palomo-Buitrago1, Ferran Comas1, Jèssica Latorre1, Francisco José Ortega1, Vicente Pérez-Brocal1, Andres Moya1, Wifredo Ricart1, José Maria Moreno-Navarrete1, José Manuel Fernández-Real1
1Institut D’investigació Biomèdica De Girona (IDIBGI)), Girona, Spain

P177-T | Microcirculatory improvement induced by laparoscopic sleeve gastrectomy is related to insulin sensitivity retrieval
Stefano Ministrini2, Maria Anastasia Ricci1, Rita Paltriccia1, Marcello Boni2, Maria Teresa Paganelli3, Graziana Lupattelli1, Leonella Pasqualini1
1Università Degli Studi Di Perugia, Perugia, Italy, 2”S. Giovanni Battista” Hospital, Foligno, Italy, 3”S. Maria della Misericordia” Hospital, Perugia, Italy
P178-T | Morbid obesity and hypertension: the role of peri-renal fat
Maria Anastasia Ricci1, Matteo Scavizzi1, Stefano Ministrini1, Stefano De Vuono1, Graziana Lupattelli1
1Internal Medicine, University Of Perugia, Perugia, Italy

P179-T | Gastric bypass and sleeve gastrectomy generate similar efficacy in increasing plasma HDL-cholesterol despite inducing different short-term BMI reduction
Carolina Perdomo2, Javier Gargallo1, María Llavero1, Marta García1, Javier Escalada1, Javier Gómez Ambrosi1,2, Victor Valentí1, Camilo Silva1, Gema Frühbeck1,2, Salvador Javier1,2
1University Clinic of Navarra, Pamplona, Spain, 2CIBEROBN, Madrid, Spain

P180-T | Increased inflammation, oxidative stress and mitochondrial respiration in brown adipose tissue from obese mice
Laura Herrero1,2, Martín Alcalá1, María Calderon-Dominguez1,2, M Carmen Soler-Vázquez1,2, Sebastián Zagmutt1,2, Kevin Ibeas1,2, Eduvigès Bustos1, Pilar Ramos3, Núria Casals2,3, Dolors Serra1,2, Marta Viana1
1Department of Biochemistry and Physiology, School of Pharmacy and Food Sciences, Institut de Biomedicina de la Universitat de Barcelona (IBUB), Universitat de Barcelona, Barcelona, Spain, 2Centro de Investigación Biomédica en Red de Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 3Facultad de Farmacia, Universidad CEU San Pablo, Madrid, Spain

P181-T | Assessment of the nutritional status in junior school children from the city of kazan
Natalya Stepanova1, Emiliya Valeeva1
1Kazan Federal University (KFU), Kazan, Russian Federation

P182-T | Weight loss trajectories in bariatric surgery patients and psychopathological correlates
Zaida Agüera1,2, Amador García-Ruiz-de-Gordejuela3, Roser Granero1,4, Nuria Vilarrasa5,6, Monica Montserrat-Gil de Bernabé7, Isabel Sánchez2, Susana Jiménez-Murcia1,2,8, Fernando Fernández-Aranda1,2,8
1CIBER de Fisopatología de la Obesidad Y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 2Eating Disorders Unit, University Hospital of Bellvitge-IDIBELL, Barcelona, Spain, 3Bariatric and Metabolic Surgery Unit, Service of General and Gastrointestinal Surgery, University Hospital of Bellvitge-IDIBELL, Barcelona, Spain, 4Department of Psychobiology and Methodology, Autonomous University of Barcelona, Barcelona, Spain, 5Department of Endocrinology and Nutrition, University Hospital of Bellvitge-IDIBELL, Barcelona, Spain, 6CIBERDEM-CIBER de Diabetes y Enfermedades Metabólicas Asociadas, Instituto de Salud Carlos III, Madrid, Spain, 7Dietetics and Nutrition Unit, University Hospital of Bellvitge, Barcelona, Spain, 8Clinical Sciences Department, School of Medicine, University of Barcelona, Barcelona, Spain
P183-T | Features of eating behavior in adolescents
Emiliya Valeeva1, Natalya Stepanova1, Neila Yusupova2, Liliya Khayrullina2
1Kazan Federal University, Institute Of Fundamental Medicine And Biology, Kazan, Russian Federation, 2KSMAS-branch of the State Public Health Service of the Russian Federation Ministry of Health of the Russian Federation, Kazan, Russian Federation

P184-T | Results of dietary studies in junior schoolchildren
Natalya Stepanova1, Naila Yusupova2, Emiliya Valeeva1, Suryana Fomina1, Lily Khairullina2
1Kazan Federal University (KFU), Kazan, Russian Federation, 2Kazan State Medical Academy – branch FGBOU DPO of the Russian Medical Academy of Postgraduate, Kazan, Russian Federation

P185-T | Fibroblast growth factor-21 as a dual hepatokine/adipokine in the control of lipid metabolism
Francesc Villarroya1
1University of Barcelona, Barcelona, Spain

P186-T | Oncostatin m is secreted by immune cells and overexpressed in patients with obesity and hyperglycemia: potential role in the development of type 2 diabetes
David Sanchez-infantes1, Siri D. Taxeras1, Irene Piquer-Garcia1, Silvia Rodriquez-Fernandez1, Aleix Gavaldà-Navarro2,3, Silvia Pellitero1,4, Rocío Puig1, Eva Martinez1, Jordi Tarascó1, Carmen Higueras1, Paloma Malagon1, Francesc Villarroya2,3, Marta Vives-Pi1, Josep A. Villena3, Manel Puig-Domingo1,4
1Institut d’Investigació Germans Trias I Pujol (IGTP), Badalona (Barcelona), Spain, 2Department of Biochemistry and Molecular Biomedicine. Institut de Biomedicina de la Universitat de Barcelona (IBUB), Universitat de Barcelona, Barcelona, Spain, 3CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Madrid, Spain, 4CIBER Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM), Madrid, Spain, 5Laboratory of Metabolism and Obesity, Vall d’Hebron Research Institute, Barcelona, Spain

P187-T | Surgical complications, weight loss and comorbidity resolution in superobese patients following bariatric surgery
Carlota Tuero1, Lucia Granero1, Fernando Rotellar1, Rafael Moncada4, Manuel Landecho1, Camilo Silva2, Fernando Lapuente1, Patricia Martinez Ortega3, Javier Salvador2, Gema Frühbeck2, Victor Valenti1
1Department of Surgery, Clinica Universidad de Navarra, Pamplona, Spain, 2Department of Endocrinology & Nutrition, Clinica Universidad de Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, 3Department of Surgery, Clinica Universidad de Navarra, Madrid, Spain, 4Department of Anesthesiology, Clinica Universidad de Navarra, Pamplona, Spain, 5Department of Internal Medicine, Clinica Universidad de Navarra, Pamplona, Spain
P188-T | Bariatric surgery in elderly obese patients is safe and effective
Carlota Tuero¹, Lucia Granero¹, Patricia Ahechu¹, Sara Esteban¹, Juan Lujan¹, Fernando Rotellar¹, Jose Luis Hernandez¹, Ana Zugasti¹, Estrella Petrina¹, Magdalena de la Higuera², Gema Frühbeck², Victor Valenti¹
¹Department of Surgery, Clinica Universidad de Navarra, Pamplona, Spain, ²Department of Endocrinology & Nutrition, Clinica Universidad de Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, ³Department of Endocrinology & Nutrition, Hospital de Navarra, Pamplona, Spain, ⁴Department of Endocrinology & Nutrition, Clinica Universidad de Navarra, Madrid, Spain

P189-T | Comparative study between gastric bypass and sleeve gastrectomy at the Clinica Universidad de Navarra
Carlota Tuero², Patricia Ahechu¹, Fernando Rotellar¹, María Luisa Irigoyen³, María Molina¹, Rafael Moncada², Manuel Landecho³, Camilo Silva², Javier Salvador², Gema Frühbeck², Victor Valenti¹
¹Department of Surgery, Clinica Universidad de Navarra, Pamplona, Spain, ²Department of Endocrinology & Nutrition, Clinica Universidad de Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, ³Assistant Nurse, Clinica Universidad de Navarra, Pamplona, Spain, ⁴Dept. of Anesthesiology, Clinica Universidad de Navarra, Pamplona, Spain, ⁵Dept. of Internal Medicine, Clinica Universidad de Navarra, Pamplona, Spain

P190-T | The IGFs system in response to an inadequate diet
Santiago Guerra-Cantera¹²³, Francisca Díaz¹², Purificación Ros¹⁴, Alejandra Freire-Regatillo¹²³, Marta Torrecilla-Parra¹, Sandra Canelles¹², Vicente Barrios¹², Claus Oxvig⁵, Jan Frystyk⁵, Julie Chowen¹²⁶, Jesús Argente¹²³⁶
¹CIBEROBN, Madrid, Spain, ²Hospital Infantil Universitario Niño Jesús, Madrid, Spain, ³Universidad Autónoma de Madrid, Madrid, Spain, ⁴Hospital Universitario Puerta de Hierro, Majadahonda, Spain, ⁵Aarhus University, Aarhus, Denmark, ⁶IMDEA Food Institute, CEI UAM + CSIC, Madrid, Spain

P191-T | Extracellular Features of Spikes in the Neonatal Rat CA3 Hippocampal Pyramidal Cells
Marat Mukhtarov⁴, Elvira Juzekaeva¹, Azat Nasretdinov⁴
¹Laboratory of Neurobiology, Kazan (Volga Region) Federal University, Kazan, Russian Federation
Poster session 2

Thursday, 31 May, 17.30-19.00

W1 | Phagocyte biology (P021-T to P035-T)

P021-T | Oxidized albumin triggers a cytokine/eicosanoid storm in leukocytes through p38 MAP kinase: role in systemic inflammation in decompensated cirrhosis
José Alcaraz-Quiles1, Mireia Casulleras1, Karl Oettl2, Esther Titos4, Roger Flores-Costa1, Marta Duran-Güell1, Cristina López-Vicario4, Marco Pavesi3, Rudolf E. Stauber2, Vicente Arroyo3, Joan Clària1,3,4
1Department of Biochemistry and Molecular Genetics, Hospital Clínic-IDIBAPS, Barcelona, Spain, 2Center of Physiological Medicine, Medical University of Graz, Graz, Austria, 3European Foundation for the Study of Chronic Liver Failure (EF-CLIF), Barcelona, Spain, 4Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBERehd), Barcelona, Spain

P022-T | Tissue hypoxia induces the mobilisation from the spleen of pro-angiogenic neutrophils through the activation of sympathetic nerves
Cédric Seignez1, Mia Phillipson1
1Medical Cell Biology Dept, Biomedical Center, Uppsala University, Uppsala, Sweden

P023-T | Bioengineering of the local wound environment accelerates wound healing by increasing macrophage density and induces a phenotype shift in the wound macrophages
Emelie Öhnstedt1, Evelina Vågesjö1, Hava Lofton1, Stefan Roos2, Mia Phillipson1
1Uppsala University, Uppsala, Sweden, 2Swedish University of Agricultural Sciences, Uppsala, Sweden

P024-T | A novel drug-delivery system and drug candidate; using probiotic bacteria as bioreactors for delivery of therapeutic chemokines in wound healing
Hava Lofton-Tomenius2, Evelina Vågesjö1, Emelie Öhnstedt1, Anneleen Mortier2, Stefan Roos1, Mia Phillipson1
1Uppsala University, Uppsala, Sweden, 2Katholieke Universiteit Leuven, Leuven, Belgium, 3Swedish University of Agricultural Sciences, Uppsala, Sweden
P025-T  Establishing of an In Vivo Mouse Model of Epidermolysis Bullosa Acquisita
Kata Szilveszter1, Tamás Németh1, Attila Mócsai1
1Semmelweis University, Budapest, Hungary

P026-T  Gorham Disease – a rare disorder not easy to diagnose
Lavinia Caba1, Alina Momanu2, Carmen Nicoleta Gorduza4, Eugen Cezar Popescu4, Oana Elena Arhire2, Monica Cristina Panzaru1, Roxana Popescu1, Eusebiu Vlad Gorduza1
1University of Medicine and Pharmacy “Grigore T. Popa”, Iasi, Romania, 2Rehabilitation Hospital, Iasi, Romania, 3“St. Spiridon” Hospital, Iasi, Romania, 4“Prof. Dr. Nicolae Oblu” Hospital, Iasi, Romania

P027-T  Inhibition of the Arp2/3 complex in human neutrophils: comparison to the defective neutrophil functions of ARPC1B-deficient patients
Evelien Sprenkeler1,2, Anton Tool1, Michel van Houdt1, Timo van den Berg1,3, Taco Kuipers1,2
1Department of Blood Cell Research, Sanquin Research, Amsterdam, The Netherlands, 2Department of Pediatric Hematology, Immunology and Infectious Diseases, Emma Children’s Hospital, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands, 3Department of Molecular Cell Biology and Immunology, VU Medical Center, Amsterdam, The Netherlands

P028-T  Characterization of pro-angiogenic neutrophils
jalal lomei1
1Uppsala University, UPPSALA, Sweden

P029-T  Potential use of human adipose-derived multipotent mesenchymal stromal cells as a drug delivery mechanism for bone engineering
V.V. Shupletsova1, I.S. Litvinova1, K.A. Urova1, O.G. Khaziakhmatova1, V.V. Malashchenko1, L. Pokrovskaya1, V.L. Kudryavtseva1, S.I. Tverdokhlebov1, A.S. Timin1, G.B. Sukhorukov1,2, A.J. Gow2,4, Elena Atochina-Vasserman1,5, I.A. Khlusov1,6,7
1Immanuel Kant Baltic Federal University, Kaliningrad, Russian Federation, 2RASA Center in Tomsk, Tomsk Polytechnic University, Tomsk, Russian Federation, 3School of Engineering and Materials Science, Queen Mary University of London, London, United Kingdom, 4Pharmacology and Toxicology, Rutgers University, Piscataway, United States, 5RASA Center, Kazan Federal University, Kazan, Russian Federation, 6Siberian State Medical University, Tomsk, Russian Federation, 7Tomsk State University, Tomsk, Russian Federation

P030-T  Viability of human polymorphonuclear leukocytes loaded with synthetic microcapsules in vitro
T. Nevzorova1, M. Nikitina1, A. Daminova1, Y. Tarakanchikova2, A. Gow3,4, G Sukhorukov1,5, R. Litvinov1,6, E. Atochina-Vasserman1,3
1RASA Center, Kazan Federal University, Kazan, Russian Federation, 2Saratov State
University, Saratov, Russian Federation, 3RASA Center in Tomsk, Tomsk Polytechnic University, Tomsk, Russian Federation, Pharmacology and Toxicology, Rutgers University, Piscataway, United States, 5School of Engineering and Materials Science, Queen Mary University of London, London, United Kingdom, 6University of Pennsylvania, School of Medicine, Philadelphia, United States

P031-T | Elucidating the dynamics and role of peri-vascular macrophages
Kristel Parv1, Gustaf Christoffersson1, Carmen Herrera Hidalgo1, Cedric Seignez1, Mia Phillipsson1
1Department of Medical Cell Biology, Uppsala University, Uppsala, Sweden

P032-T | Effect of neonatal infections on pancreatic macrophages, islet development and long-term glucose homeostasis
Carmen Herrera Hidalgo1, Sara Ullsten1, Evelina Vågesjö1, Kristel Parv1, Haoyu Liu1, Antoine Giraud1, Per-Ola Carlsson2, Mia Phillipson1
1Department of Medical Cell Biology, Uppsala University, Uppsala, Sweden, 2Department of Medical Sciences, Uppsala University, Uppsala, Sweden

P033-T | Microglial development and phagocytosis of apoptotic cells is mediated by PROS1
Tal Burstyn-cohen1, Katya Zelentsova1, Arielle Hochberg1, Stav Shtiglitz1, Ariele Sznajderman1
1Hebrew University Of Jerusalem, Jerusalem, Israel

P034-T | PreImplantation factor: A new regulator of neutrophil recruitment in vivo
R. Immler1, J. Tilgner2, M. Pruenster1, V. Morikis3, A. Yevtushenko1, J. Grommes2, A.R.M. Kurz1, O. Soehnlein3,4, S.I. Simon1, E. Barnea5, M. Sperandio1
1Walter-Brendel-Center of Experimental Medicine, Biomedical Center, Ludwig-Maximilians Universität München, Munich, Germany, 2Department of Vascular Surgery, University Hospital, RWTH Aachen, Aachen, Germany, 3Department of Biomedical Engineering, University of California, Davis, United States, 4Institute for Cardiovascular Prevention, Ludwig-Maximilians Universität München, Munich, Germany, 5BioIncept LLC, Cherry Hill, New Jersey, United States

P035-T | Uromodulin as a modulator of inflammation
M. Pruenster1, T. Steffen1, S. Bierschenk1, U. Keller2, R. Immler1, G. Hummel1, J. Scherberich3, B. Uhl1, H. Mannell1, C. Reichel1, M. Sperandio1, B. Lange-Sperandio2
1Walter-Brendel-Center of Experimental Medicine, Biomedical Center, Ludwig-Maximilians Universität München, Munich, Germany, 2Dr. von Haunersches Kinderspital, Dept. of Pediatric Nephrology Ludwig-Maximilians Universität München, Munich, Germany, 3Klinikum Harlaching, Lehrkrankenhaus der Ludwig-Maximilians Universität München, Munich, Germany
W2 | Mitochondria, ageing and disease (P056-T to P072-T)

P056-T | Cytotoxicity of doxorubicin-loaded PLGA and PLGA-PEI nanoparticles: relevance for anti-tumor effects and cardiotoxicity
Caroline Candido¹, Luciana Ferreira², Emanuell Silva³, Arnobio Júnior³, Rosangela Peccinini¹, Paulo Oliveira²
¹Department of Natural Active Principles and Toxicology, São Paulo State University (Unesp), School of Pharmaceutical Sciences, Araraquara, Brazil, ²CNC, Center for Neuroscience and Cell Biology, University of Coimbra, UC-Biotech-Biocant Park, Cantanhede, Portugal, ³Laboratory of Pharmaceutical Technology and Biotechnology, Department of Pharmaceutical Sciences, Faculty of Pharmacy, Federal University of Rio Grande do Norte, Natal, Brazil

P057-T | Crosstalk between H2S and glutathione in cardioprotection against ischemia/reperfusion in rats
Yulia Goshovska¹, Raisa Fedichkina¹, Vadym Sagach¹
¹Bogomoletz Institute Of Physiology of NAS of Ukraine, Kyiv, Ukraine

P058-T | Interplay between tissue-specific mitochondrial function and whole body glucose homeostasis
Pau Gama-Pérez², Alba Gonzalez-Franquesa², Sonia Moreno¹, Pim Rullens¹, Pablo Garcia-Roves¹,³
¹Department of Physiological Science, University of Barcelona, Barcelona, Spain, ²Section for Integrative Physiology, The Novo Nordisk Center for Basic Metabolic Research, University of Copenhagen, Copenhagen, Denmark, ³Institut d’Investigacions Biomèdiques de Bellvitge (IDIBELL), Barcelona, Spain

P059-T | Structural and functional alterations of platelets induced by autoimmune anti-DNA antibodies
Izabella Andrianova¹, Esperant Elvis Cokou Agboigba¹, Rustem Litvinov¹,²
¹Kazan Federal University, Kazan, Russian Federation, ²University of Pennsylvania School of Medicine, Philadelphia, USA

P060-T | Analysis of proinflammatory cytokines in patients with multiple sclerosis
Ekaterina Garanina¹, Ekaterina Martynova¹, Albert Rizvanov¹, Svetlana Khaiboullina¹,², Timur Khaiboullin¹
¹Kazan Federal University, Kazan, Russian Federation, ²University of Nevada, Reno, United States of America, ³Republican clinical neurological center, Kazan, Russian Federation

P061-T | Possibilities of application of photodynamic therapy for the treatment of squamous cell carcinoma of the esophagus
Sergey Zinchenko¹, Alexey Ivanov², Airat Bilyalov¹, Raushania Gaifullina²
¹Kazan Federal University, Kazan, Kazan, ²Tatarstan Cancer Center, Kazan, Kazan
P062-T | Puncture treatment of acute pancreatitis
Sergey Zinchenko1, Azat Zainytdinov1, Igor Malkov2
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical Academy, Kazan, Russian Federation

P063-T | Ultrastructural changes in platelets induced by immune complexes containing platelet factor 4
Elmira Mordakhanova1, Anastasia Ponomareva1, Tatiana Nevzorova1, Rustem Litvinov2
1Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation, 2Department of Cell and Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia, USA

P064-T | Effect of betulin derivatives on platelet aggregation
Igor Antipin1,2, Olga Tsepaeva2, Andrey Nemtarev1,2, Leisan Grigor’eva1, Lilia Ziganshina1, Hanh Cong1, Timur Abdullin1, Vladimir Mironov1,2
1Kazan Federal University, Kazan, Russian Federation, 2A. E. Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russian Federation

P065-T | Cancer cell growth inhibitory activity of betulin-TPP derivatives and their effect on mitochondria
Igor Antipin1,2, Olga Tsepaeva2, Andrey Nemtarev1,2, Timur Abdullin1, Leisan Grigor’eva1, Elena Kuznetsova1, Rezeda Akhmadishina1, Vladimir Mironov1,2
1Kazan Federal University, Kazan, Russian Federation, 2A. E. Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russian Federation

P066-T | Hyperglycemia and AGEs reduce activation of Tie-2 by Angiopoietin-1 in endothelial cells
Roberta Sanguineti1, Alessandra Puddu1, Massimo Nicolò2, Giorgio L Viviani1
1Department Of Internal Medicine And Medical Specialties (dimi), University Of Genoa, Genova, Italy, 2Department of Neuroscience, Rehabilitation, Ophthalmology, Genetics and Maternal-Infant Sciences (DINOGMI), University Of Genoa, Genova, Italy

P067-T | Mesenchymal stem cell transplantation effect on autoimmune encephalomyelitis model
Alexey Ponomariov1, Zarema Gilazieva1, Valeriya Siromiatnikova1, Yana Mukhamedshina1, Galina Masgutova1, Gulcin Tezcan1, Svetlana Arkhipova1, Svetlana Khaiboulina1,2, Albert Rizvanov2
1Kazan Federal University, Kazan, Russian Federation, 2University of Nevada, Reno, Reno, USA

P068-T | Preventive gene therapy for stroke
Vage Markosyan1, Farid Bashirov1, Michail Sokolov1, Filip Fadeev1, Andrei Izmailov1, Maxim Kuznetsov1, Zufar Safiullov1, Albert Rizvanov2, Rustem Islamov1,2,3
1Kazan State Medical University, Kazan, Russian Federation, 2Kazan Federal University,
Kazan, Russian Federation, 3Kazan Institute of Biochemistry and Biophysics of Russian Academy of Science, Kazan, Russian Federation

P069-T | Characterization of the Multi-Unit Activity Topography in the Rat’s Neonatal Barrel Cortex
Dmitrii Suchkov1, Lyailya Sharipzyanov1, Marat Minlebaev1,2
1Kazan Federal University, Kazan, Russian Federation, 2INMED - INSERM U901, Marseille, France

P070-T | Developmental Changes of the Multi-Unit Activity Evoked by the Single Whisker Stimulation in the Neonatal Rat
Lyailya Sharipzyanova1, Dmitrii Suchkov1, Rozalina Galimullina1, Marat Minlebaev1,2
1Kazan Federal University, Kazan, Russian Federation, 2INMED - INSERM U901, Marseille, France

P071-T | Effect of Nutlin-3a, RG-7112, Carfilzomib and MG-132 on accumulation of p53 in eukaryotic HEK293 cell line
Irina Glagoleva1, Anna Kudriaeva1, Alexey Belogurov1,2, Albert Rizvanov1, Emil Bulatov1
1Kazan Federal University, Kazan, Russian Federation, 2Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, Moscow, Russian Federation

P072-T | Artificial microvesicles from human cells: production, biological properties and potential therapeutic use
Albert Rizvanov1, Margarita Zhuravleva1, Leisan Tazetdinova1, Vyacheslav Vorobev1, Sevindzh Kletukhina1, Sirina Kurbangaleeva1, Olga Neustroeva1, Marina Gomzikova1
1Kazan Federal University, Kazan, Russian Federation

W3 | Cardiology-CIBERCV (P103-T to P128-T)

P103-T | VKORC1-1639 G>A polymorphism and the risk of vascular calcification. A prospective study
Ștefan Vesă1, Madalina Sava1, Adrian Trifa1, Sorin Crisan1, Anca Buzoianu1
1Department of Pharmacology, Toxicology and Clinical Pharmacology, “Iuliu Hațeganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania, 2Department of Dermatology, University of Oradea, Oradea, Romania, 3Department of Medical Genetics, “Iuliu Hațeganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania, 4Department of Internal Medicine, “Iuliu Hațeganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania

P104-T | Automated ECG segmentation based on weighted reference shape updating
Anastasia Sokolova1, Yuri Uljanitski1, Mikhail Bogachev1,2
1St. Petersburg Electrotechnical University, St.Petersburg, Russian Federation, 2Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation
P105-T | Identification of early peripheral blood biomarkers to predict the severity of myocardial infarction in a porcine model
Javier García-Casado1,2, Rebeca Blázquez1,2, V Álvarez1, Juan Antonio Antequera-Barroso1, Claudia Báez-Díaz1,2, Virginia Blanco1, Juan Maestre1, Beatriz Moreno1, Esther López1, Federica Marinaro1, Verónica Crisóstomo1,2, Francisco Miguel Sánchez-Margallo1,2
1Minimally Invasive Surgery Centre, Cáceres, Spain, 2CIBER de Enfermedades Cardiovasculares, Madrid, Spain

P106-T | Isolation and proteomics analysis of microvesicles from cardiosphere-derived cells for cardiac repair therapy
Javier García-Casado1,2, Esther López1, Verónica Álvarez1, Rebeca Blázquez1,2, Federica Marinaro1, María Gómez-Serrano1, Inmaculada Jorge2,3, Jesús Vázquez2,3, Francisco-Miguel Sánchez-Margallo1,2
1Minimally Invasive Surgery Centre, Cáceres, Spain, 2CIBER de Enfermedades Cardiovasculares, Madrid, Spain

P107-T | Impact of coronary revascularization in patients undergoing TAVI
Alejandro Avila Carrillo1, Diego López Otero1, Ramiro Trillo Nouche1, Juan Carlos Sanmartín Pena1, Ana Belén Cid Álvarez1, Fernando Gómez Peña1, Alfredo Redondo Diéguez1, José Ramón González Juanatey1
1Hospital Universitario De Santiago De Compostela, Santiago De Compostela, Spain

P108-T | Validation of engineered cardiac grafts for the local delivery of multifunctional extracellular vesicles for myocardial repair
Santiago Roura1,2, Miss Marta Monguíó-Tortajada1,2, Cristina Prat-Vidal1,2,3, Carolina Gálvez-Montón1,2, Francesc E. Borràs3,4,6, Antoni Bayes-Genís1,2,7,8
1ICREC Research Program, IGTP, Badalona, Spain, 2CIBERCV, Instituto de Salud Carlos III, Madrid, Spain, 3REMAR-IVECAT Group, IGTP, Badalona, Spain, 4Dpt. Cell Biology, Physiology and Immunology, UAB, Barcelona, Spain, 5Center of Regenerative Medicine in Barcelona, Barcelona, Spain, 6Nephrology Service, Germans Trias i Pujol University Hospital, Badalona, Spain, 7Cardiology Service, Germans Trias i Pujol University Hospital, Badalona, Spain, 8Department of Medicine, UAB, Barcelona, Spain

P110-T | Orosomucoid 1 in Familial Hypercholesterolemia
Rosa Aledo1,2, Teresa Padro1,2, Pedro Mata1, Ovidio Muñiz3, María Borrell1,2, Lina Badimon1,2
1Program ICC-ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital de la Santa Creu i Sant Pau, UAB, Barcelona, Spain, 2CiberCV, Institute Carlos III, Barcelona, Spain, 3Fundación Hipercolesterolemia Familiar, Madrid, Spain, 4Hospital Virgen del Rocío, Sevilla, Spain
P111-T | MicroRNA-145 regulates the differentiation of adipose stem cells toward endothelial cells by ETS1 expression, and promotes angiogenesis in vivo
Gemma Arderiu1, Esther Peña1,2, Rosa Aledo1,2, Javier Crespo1, Gemma Vilahur1,2, Lina Badimon1,2
1Program-ICCC. Institut de Recerca Sant Pau. IIB-Sant Pau, Barcelona, Spain, 2Ciber CV, Instituto Carlos III, Madrid, Spain

P112-T | Neutrophil Gelatinase-Associated Lipocalin from immune cells is mandatory for aldosterone-induced cardiac remodeling and inflammation
Ernesto Martínez-martínez1, Mathieu Buonafine1, Cristian Amador2, Basile Gravez1, MSc Jaime Ibarrola3, Amaya Fernández-Celis1, Soumaya El Moghrabi1, Patrick Rossignol4, Natalia López-Andrés3, Frédéric Jaisser1
1Inserm 1138. Centre De Recherche Des Cordeliers, Paris, France, 2Centro de Investigación Biomédica. Universidad Autónoma de Chile, Santiago de Chile, Chile, 3Cardiovascular Translational Research, Navarrabiomed, Complejo Hospitalario de Navarra (CHN), Universidad Pública de Navarra (UPNA), Instituto de Investigación Sanitaria de Navarra (IdiSNNA), Pamplona, Spain, 4INSERM, Clinical Investigation Centre 1433, French-Clinical Research Infrastructure Network (F-CRIN) INI-CRCT, Nancy, France

P113-T | Genetic testing to guide warfarin dosage in Russian Federation
A. Ananeva1, L. Shigapova1, A. Nikitin2, O. Gusev1,3, E. Shagimardanova1
1Kazan (Volga Region) Federal University, Kazan, Russian Federation, 2Federal Research and Clinical Center, FMBA , Moscow, Russian Federation, 3RIKEN, Yokohama City, Japan

P114-T | In-hospital acute coronary syndrome management in Europe: efficacy-proven pharmacological treatment trends 2000-2010, and its impact on vital status at discharge
Irene Dégano1,2, Samantha Huo Yung Kai3, Inge Kirchberger4,5, Dimitrios Farmakis6, Luigi Tavazzi7, Jaume Marrugat1,2, Jean Ferrieres8
1CIBERCV, Instituto de Salud Carlos III, Madrid, Spain, 2REGICOR Group, Hospital Del Mar Medical Research Institute (IMIM), Barcelona, Spain, 3Department of Epidemiology, Health Economics and Public Health, Toulouse University Hospital, Toulouse, France, 4MONICA/KORA Myocardial Infarction Registry, Augsburg, Germany, 5Helmholtz Zentrum München, German Research Center for Environmental Health, Institute for Epidemiology II, Neuherberg, Germany, 6Heart Failure Unit, Department of Cardiology, Attikon University Hospital, Athens, Greece, 7Maria Cecilia Hospital, GVM Care & Research, E.S. Health Science Foundation, Cotignola, Italy, 8Department of Cardiology, Toulouse Rangueil University Hospital, Toulouse University School of Medicine, Toulouse, France

P115-T | Influence of pathology of auditory analyzer on cardiac output
Timur Lvovich Zefirov1, Artem Mikhailovich Golovachev1, Raisa Gabdullovnova Biktemirova1, Adel Ilbragimov1, Nafisa Ilgizovna Ziyatdinova1
1Kazan (volga Region) Federal University, Kazan, Russian Federation
P116-T | Angiographic predictors of experimental infarct size in a swine model of reperfused myocardial infarction
Verónica Crisóstomo1,2, Claudia Baez-Diaz1,2, Virginia Blanco-Blazquez1,2, Ana Abad-Cobo1, Irene Gonzalez-Bueno1, Juan Antonio Antequera-Barroso1, Juan Maestre1,2, Francisco M. Sanchez-Margallo1,2
1Centro De Cirugía De Minima Invasión Jesús Usón, Caceres, Spain, 2CIBER de Enfermedades Cardiovasculares, Madrid, Spain

P117-T | Paramagnetic centers in atherosclerotic plaques of carotid arteries as indicators of their content and stability
Konstantin Usachev1, G. Mamin1, M Gafurov1, I. Ignat’ev2, R. Kamaltdinov2, M. Salakhov1,3, F. Murzakanov1, A. Kiiamov1, Y. Osin1, Y. Chelyshev1,4, S. Orlinskii1
1Kazan Federal University, Kazan, Russian Federation, 2Interregional Clinical and Diagnostic Centre, Kazan 4200101, Russian Federation, Kazan, Russian Federation, 3Tatarstan Academy of Sciences, Kazan 420111, Russian Federation, Kazan, Russian Federation, 4Kazan State Medical University, Kazan 420012, Russian Federation

P118-T | Involvement of large-conductance calcium-activated potassium channels in pinacidil effects on the isolated bypass grafts from patients with and without type-2 diabetes mellitus
MSc Jovana Rajkovic1, Miodrag Peric2, MSc Jelena Stanisic3, MD Jelena Rakocevic4, Radmila Novakovic1, MD Vladimir Djokic1, Milica Labudovic-Borovic4, Snezana Tepavcevic1, Helmut Heinle5, Ljiljana Gojkovic-Bukarica1
1Institute of Pharmacology, Clinical Pharmacology and Toxicology, Medical Faculty, University of Belgrade, Belgrade, Serbia, 2Dedinje Cardiovascular Institute, Belgrade, Serbia, 3Laboratory for Molecular Biology and Endocrinology, Vinca Institute of Nuclear Sciences, University of Belgrade, Belgrade, Serbia, 4Institute of Histology and Embryology, Medical Faculty, University of Belgrade, Belgrade, Serbia, 5Institute of Physiology, University of Tuebingen, Tuebingen, Germany

P119-T | Myocardial remodelling post-infarction: Extracellular matrix regulation and the Complement C3-system
Maisa Garcia-Arguinzonis1,2, Gemma Vilahur1,2, Elisa Diaz1,2, Lina Badimon1,2, Teresa Padro1,2
1Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital de la Santa Creu i Sant Pau, UAB, Barcelona, Spain, 2CiberCV, Institute Carlos III, Barcelona, Spain

P120-T | HSP expression in the subcutaneous and omental adipose tissue of diabetic and obese patients
Carmen Lambert1,2, Lina Badimon1,2
1Program ICCC-Institut Català de Ciències Cardiovasculars, IR-Hospital de la Santa Creu i Sant Pau, UAB, Barcelona, Spain, 2CiberCV, Institute Carlos III, Barcelona, Spain
P121-T | Immunohistological detection of FBN1 expression in mouse aorta
LIZET SANDRA LSICANELAS\textsuperscript{1}, MARIA JESÚS RUIZ RODRIGUEZ\textsuperscript{1}, MIGUEL RAMÓN CAMPANERO GARCIA, JUAN MIGUEL REDONDO\textsuperscript{1}
\textsuperscript{1}centro nacional de investigaciones cardiovasculares carlos tercero, Madrid, Spain

P122-T | The influence of methoxamine on the isolated heart chronotropy and inotropy
Timur Lvovich Zefirov\textsuperscript{1}, Insa Ilkhamovich Khabibrakhmanov\textsuperscript{1}, Julia Timurovna Zefirova\textsuperscript{2}, Nafisa Ilgizovna Ziyatdinova\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Department internal medicine, Saint Mary,s hospital, Waterbury, USA

P123-T | The influence of If inhibition on the myocardium electrical activity
Timur Lvovich Zefirov\textsuperscript{1}, Lenar Ilsurovich Faskhutdinov\textsuperscript{1}, Andrei Lvovich Zefirov\textsuperscript{2}, Nafisa Ilgizovna Ziyatdinova\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Kazan State Medical University, Kazan, Russian Federation

P124-T | The blockade of If in isolated (Langendorff perfused) heart
Timur Lvovich Zefirov\textsuperscript{1}, Anna Mikhailovna Kuptsova\textsuperscript{1}, Tatijana Petrovna Zefirova\textsuperscript{2}, Lenar Ilsurovich Faskhutdinov\textsuperscript{1}, Nafisa Ilgizovna Ziyatdinova\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Kazan State Medical Academy – Branch Campus of the FSBEI FPE RMACPE Russia, Kazan, Russian Federation

P125-T | Role of NPY1,5-receptors in the neonatal rats myocardial contractility
Timur Zefirov\textsuperscript{1}, Alexei Anatolievich Zverev\textsuperscript{1}, Nickita Iskakov\textsuperscript{1}, Petr Mikhailovich Masliukov\textsuperscript{2}, Tatiana Andreevna Anikina\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Yaroslavl State Medical University, Yaroslavl, Russian Federation

P126-T | Developmental changes of ATP influence to rats heart parameters
Timur Lvovich Zefirov\textsuperscript{1}, Alexei Anatolievich Zverev\textsuperscript{1}, Tatiana Andreevna Anikina\textsuperscript{1}, Nickita Iskakov\textsuperscript{1}, Petr Mikhailovich Masliukov\textsuperscript{2}, Andrei Lvovich Zefirov\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Yaroslavl State Medical University, Yaroslavl, Russian Federation, \textsuperscript{3}Kazan State Medical University, Kazan, Russian Federation

P127-T | Involvement of α-adrenoreceptors of rats myocardial contractility dopaminergic regulation during postnatal ontogenesis
Timur Zefirov\textsuperscript{1}, Gulfija Albertovna Bilalova\textsuperscript{1}, Farit Gabdulkhakovitch Sbitikov\textsuperscript{1}, Natalija Borisovna Dikopolskaya\textsuperscript{1}, Marija Vladimirovna Shakhelislamova\textsuperscript{1}
\textsuperscript{1}Kazan (volga Region) Federal University, Kazan, Russian Federation
P128-T | Endovascular revascularization of occlusion renal artery in a patient with chronic kidney disease
Sergey Zinchenko1, Airat Khalirakhmanov1, Aydar Sharafeev1, Julia Troshina2
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical University, Kazan, Russian Federation

W5 | Omics (P129-T to P161-T)

P129-T | GlycA, a novel pro-inflammatory glycoprotein biomarker, and high sensitivity C-reactive protein are inversely associated with sodium intake after controlling for adiposity: PREVEND study
Robin Dullaart1, Eke Gruppen1, Margery Connelly1, James Otvos1, Stephan Bakker1
1University Hospital Groningen, Groningen, Netherlands

P130-T | High fat diet increases ATP levels but reduces glucose-derived Krebs cycle turn-over in the myocardium
Ignasi Barba1,2, David Aluja1,2, Javier Inserte1,2, David Garcia-Dorado1,2
1Vall d’Hebron University Hospital and Research Institute, Barcelona, Spain, 2CIBER Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain

P131-T | Impact of Phenol-Enriched Virgin Olive Oils on the circulating levels of microRNAs related to cardiovascular disease
Lidia Daimiel1, Victor Micó1, M José Motilva2, Laura Rubió2, Montse Fitó3,4, Marta Farrás3,4, M Isabel Covas3,4, Rosa M Valls5, Anna Pedret6, Rosa Solá7, José M Ordovás1,6
1Nutritional Genetics and Epigenetics Group. Instituto Madrileño de Estudios Avanzados (IMDEA) Food Institute, CEI UAM-CSIC, Madrid, Spain, 2Food Technology Department, Agrotecnio Center, Escola Tècnica Superior d’Enginyeria Agrària, University of Lleida, Lleida, Spain, 3Cardiovascular Risk and Nutrition (Regicor Study Group), Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain, 4CIBER de Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Institute of Health Carlos III, 5Spain, 6Unit of Lipids and Arteriosclerosis Research, CIBERDEM, Hospital Universitari Sant Joan, IISPV, Universitat Rovira i Virgili, Technological Centre of Nutrition and Health (CTNS), Functional Nutrition, Oxidation and Cardiovascular Disease Research Group, Medicine and Surgery Department, Universitat Rovira i Virgili, 6Reus, Spain, 7Jean Mayer U.S. Department of Agriculture Human Nutrition Research Center on Aging, Tufts University School of Medicine, Boston, USA

P132-T | Modulation of plasma metabolites following a low-glycemic index diet
Pablo Hernández-Alonso1,2, BSc Simona Giardina1,2, BSc Daniel Cañueto3,4, Jordi Salas-Salvadó1,2, Nicolau Cañellas1,2, Mònica Bulló1,2
1Human Nutrition Unit-URV-IISPV, Reus, Spain, 2CIBEROBN-ISCIII, Madrid, Spain, 3Metabolomics Platform-URV-IISPV, Tarragona, Spain, 4CIBERDEM-ISCIII, Madrid, Spain
P133-T | Ultra-Processed Food Consumption and the Incidence of Depression in a Mediterranean Cohort: The Seguimiento Universidad de Navarra Project
Clara Gómez-Donoso1, Miguel Ángel Martínez-González1,2,3,4, Andrea Romanos-Nanclares1, Liz Ruiz-Estigarribia1, Raquel Mendonça5, Almudena Sánchez-Villegas1,6, Francisca Lahortiga7, Maira Bes-Rastrollo1,2,3
1Department of Preventive Medicine and Public Health, University of Navarra, Pamplona, Spain, 2Biomedical Research Center Network on Physiopathology of Obesity and Nutrition (CIBERObn), Institute of Health Carlos III, Madrid, Spain, 3Navarra’s Health Research Institute (IDISNA), Pamplona, Spain, 4Department of Nutrition, Harvard TH Chan School of Public Health, Boston, USA, 5Department of Nutrition, School of Nursing, Federal University of Minas Gerais, Belo Horizonte, Brazil, 6Nutrition Research Group, Research Institute of Biomedical and Health Sciences, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain, 7Department of Psychiatry and Medical Psychology, University Clinic of Navarra, Pamplona, Spain

P134-T | Changes in gene expression of selected genes related with weight loss and cardiovascular risk after intervention with an energy-restricted Mediterranean diet and physical activity in the PREDIMED PLUS-Valencia study. Modulation by genetic variants
Rebeca Fernández Carrión1,2, Inmaculada González-Monje1,2, Carolina Ortega-Azorín1,2, Eva M. Asensio1,2, Rocío Barragán1,2, José V. Sorlí1,2, Olga Portolés1,2, Dolores Corella1,2
1Department of Preventive Medicine and Public Health, University of Valencia, Valencia, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición. ISCIII, Madrid, Spain

P135-T | Individual and combined effect of the adherence to the Mediterranean diet and physical activity on cardiovascular disease: the SUN cohort
Ismael Alvarez-Alvarez1, Itziar Zazpe1,2, Javier Pérez de Rojas1, Alejandro Fernandez-Montero1,3, Maira Bes-Rastrollo1,4, Miguel Ruiz-Canela1,4, María Hidalgo-Santamaría1,5, Miguel Ángel Martínez-González1,2,6
1University of Navarra, Department of Preventive Medicine and Public Health, IdiSN, Pamplona, Spain, 2University of Navarra, Department of Nutrition and Food Sciences and Physiology, School of Pharmacy, Pamplona, Spain, 3University of Navarra, Department of Occupational Medicine, University of Navarra Clinic, Pamplona, Spain, 4Biomedical Research Network Center for Pathophysiology of Obesity and Nutrition (CIBEROBN), Carlos III Health Institute, Madrid, Spain, 5University of Navarra, Department of Internal Medicine, University of Navarra Clinic, Pamplona, Spain, 6Department of Nutrition, Harvard TH Chan School of Public Health, Boston, United States of America

P136-T | Association of physical activity, sedentary behavior and Mediterranean diet with visceral adipose tissue accumulation in participants from the PREDIMED-PLUS trial: cross-sectional analysis
Aina Maria Galmés Panadés1, Jadwiga Konieczna1, Itziar Abete1,2, Margarita Morey1,2, Antoni Comol1,2, Angeles Zulet3,4, Nancy Babio1,4, Zenaida Vázquez1,5, Jord Salas-Salvadó1,4, Josep Vidal6,7, Ramón Estruch1,2, J. Alfredo Martínez1,2, Dora Romaguera1,2
1Instituto de Investigación Sanitaria Illes Balears (IdISBa), University Hospital Son
P137-T | Longitudinal analysis of changes in diet and changes in weight and waist circumference in an elderly population at high cardiovascular risk

Verónica Pereira Pérez1,2, Dora Romaguera1,2, Jadwiga Konieczna1, C Razquin2,3, Marga Morey1,2, M Martín1, R Estruch2,3, E Toledo2,3, EM Asensio-Marquez2,5, J Salas-Salvadó2,6, M Fito2,7, E Gomez-Gracia6, E Ros2,9, Miquel Fiol1,2, JM Santos-Lozano2,10, F Aros2,11, L Serra-Majem2,12, X Pinto1,13, MA Martínez-González2,3

1Instituto de investigación sanitaria Illes Balears (IdISBa), Palma, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 3Department of Preventive Medicine and Public Health, University of Navarra, Pamplona, Spain, 4Department of Nutrition, Food Sciences and Physiology, Center for Nutrition Research, University of Navarra (UNAV), Pamplona, Spain, Pamplona, Spain, 5Human Nutrition Unit, University Hospital of Sant Joan de Reus, Department of Biochemistry and Biotechnology, Pere Virgili Institute for Health Research, Rovira i Virgili University, Reus, Spain, 6Human Nutrition Unit, University Hospital of Sant Joan de Reus, Department of Biochemistry and Biotechnology, Pere Virgili Institute for Health Research, Rovira i Virgili University, Reus, Spain, 7Department of Preventive Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain, 8Department of Preventive Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain, 9Department of Internal Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain, 10Department of Preventive Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain, 11Department of Preventive Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain

P138-T | Body adiposity indicators and cardiometabolic risk: cross-sectional analysis in participants from the PREDIMED-PLUS trial

Jadwiga Konieczna1, Itziar Abete2,3, Aina Maria Galmés1, Nancy Babio2,4, Maria Angeles Zulet1,3, Estefanía Toledo2,5, Antoni Colom1,2, Pilar Buil-Cosiales2,6, Miguel Fiol1,2, Josep Vidal2,9, Josep Vera9, Ramón Estruch2,10, Jordi Salas-Salvadó2,4, J. Alfredo Martínez2,3, Dora Romaguera1,2

1Instituto de Investigación Sanitaria Illes Balears (IdISBa), University Hospital Son...
Espases, Palma de Mallorca, Spain, CIBER Fisiopatología de la Obesidad y Nutrición (CIBERobn), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, Department of Nutrition, Food Sciences and Physiology, Center for Nutrition Research, University of Navarra (UNAV), Pamplona, Spain, 4Human Nutrition Unit, University Hospital of Sant Joan de Reus, Department of Biochemistry and Biotechnology, Pere Virgili Institute for Health Research, Rovira i Virgili University, Reus, Spain, 5Department of Preventive Medicine and Public Health, University of Navarra, Pamplona, Spain, Osasunbidea, Servicio Navarro de Salud, Pamplona, Spain, 7CIBER Diabetes y enfermedades metabólicas (CIBERdem), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 8Department of Endocrinology, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain, 9Institut Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, 10Department of Internal Medicine, IDIBAPS, Hospital Clinic, University of Barcelona, Barcelona, Spain

P139-T | Study of systematic-level variations caused by swimming as a model of physical exercise
Luis Fernández-Calleja1, Andrea Díaz Luis2, Susana Rodríguez-González3, Beatriz de Luxán-Delgado4, Adrián Rubio-González5, Iván Menéndez-Valle6, Beatriz Caballero7, Ignacio Vega-Naredo1, Ana Coto-Montes1
1Department of Morphology and Cell Biology, University of Oviedo, Oviedo, Spain

P140-T | Plasma branched-chain/aromatic amino acids and risk of type-2 diabetes after a Mediterranean diet intervention: a case-cohort study within the PREDIMED trial
Miguel Ruiz-Canela1, Marta Guasch-Ferré2, Estefanía Toledo1,2,3, Clary B Clish4, Cristina Razquin1,2,3, Liming Liang5, Dong D. Wang5, Dolores Corella1,2,3, Ramón Estruch1,2,3, Álvaro Hernández1,2,3, Edward Yu4, Enrique Gómez-Gracia1,2,3,10, Yan Zheng1, Fernando Arós1,2,3, Dora Romaguera1,2,3,12, Courtney Dennis1, Emilio Ros1,2,3,8, Josué Lapetra1,2,3, Lluís Serra-Majem1,2,3,14, Christopher Papandreu1,13, Olga Portoles1,2,3,17, Montserrat Fitó1,2,3, Jordi Salas-Salvadó1,15, Frank B Hu4,16,17, Miguel A. Martínez-González1,2,3,4
1University of Navarra, Pamplona, Spain, 2IdiSNA, Navarra Institute for Health Research, Spain, 3CIBER Fisiopatología de la Obesidad y Nutrición (CIBER Obn), Instituto de Salud Carlos III, Madrid, Spain, 4Department of Nutrition, Harvard T.H. Chan School of Public Health, Boston, USA, 5Broad Institute of MIT and Harvard University, Cambridge, USA, 6Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston, USA, 7Department of Preventive Medicine, University of Valencia, Valencia, Spain, 8Hospital Clinic, University of Barcelona, Spain, 9Cardiovascular and Nutrition Research Group, Institut de Recerca Hospital del Mar, Barcelona, Spain, 10Department of Preventive Medicine, University of Malaga, Malaga, Spain, 11Department of Cardiology, University Hospital of Álava, Vitoria, Spain, 12IdISBa, Balearic Islands Health Research Institute, Palma de Mallorca, Spain, 13Department of Family Medicine, Primary Care Division of Sevilla, San Pablo Health Center, Sevilla, Spain, 14Research Institute of Biomedical and Health Sciences and Medical School University of Las Palmas de Gran Canarias, Las Palmas de Gran Canarias, Spain, 15Human Nutrition Department, IISPV, Universitat Rovira i Virgili, Reus, Spain,
P141-T | Public open spaces and weather as modulators factors on physical activity objectively measured in older adults
Antoni Colom Fernández1,2, Miquel Fiol1,2, Julia Wärnberg3, Juan Carlos Benavente Marín4, Montserrat Compa5, Maurici Ruiz5, Maria Dolores Sanmartín5, Marga Morey2, María Ángeles Martín2, Aina Galmés2, Veronica Pereira1,2, Dora Romaguera1,2
1CIBER Fisiopatología de la Obesidad y Nutrición (CIBER-OBN), Palma de Mallorca, Spain, 2Institut de Investigación Sanitària Illes Balears (IDISBA), Palma de Mallorca, Spain, 3School of Health Sciences. University of Málaga-IBIMA, Málaga, Spain, 4Instituto Español de Oceanografía (IEO), Palma de Mallorca, Spain, 5Universitat de les Illes Balears (UIB), Palma de Mallorca, Spain, 6Servicio de Salud de las Islas Baleares (Ib-Salut), Palma de Mallorca, Spain

P142-T | Evaluation of bias in reviews about olive oil
Mariana Muñoz García1, Mario Gil Conesa2, Isabel Pena Yanez3, Miguel Angel Martinez Gonzalez4
1Servicio Navarro De Salud-Osasunbidea, Pamplona, Spain, 2Hospital Universitario de Alcorcón, Alcorcón, Spain, 3Hospital Severo Ochoa, Leganés, Spain, 4Universidad de Navarra, Pamplona, Spain

P143-T | Self-perceived level of competitiveness, tension and dependency and lifestyles in the sun cohort
MIGUEL ÁNGEL MARTÍNEZ GONZÁLEZ, Itziar Zazpe, Almudena Sánchez-Villegas, Patricio Molero, Susana Santiago, FRANCISCA Lahortiga, CR Unzueta
1Universidad De Navarra, Pamplona, Spain

P144-T | A healthy lifestyle score and the risk of depression
Liz Ruiz-Estigarribia3, Miguel Á. Martínez-González1,2,3, Jesús Díaz-Gutiérrez4, Clara Gómez-Donoso5, Andrea Romanos-Nanclares5, Almudena Sánchez-Villegas4, Francisca Lahortiga-Ramos5, Maira Bes-Rastrollo1,2
1Department of Preventive Medicine and Public Health, School of Medicine, University of Navarra, Pamplona, Spain, 2Biomedical Research Network Center for Pathophysiology of Obesity and Nutrition (CIBEROBN), Carlos III Health Institute., Madrid, Spain, 3Department of Nutrition, Harvard TH Chan School of Public Health, Boston, USA, 4Research Institute of Biomedical and Health Sciences, University of Las Palmas de Gran Canaria., Las Palmas de Gran Canaria, Spain, 5Department of Psychiatry and Medical Psychology, University Clinic of Navarra., Pamplona, Spain
P145-T | Sugar-sweetened beverage consumption and incidence of breast cancer: The SUN Project
Andrea Romanos-Nanclares1, Alfredo Gea1,3,4, Itziar Gardeazábal1,2, Rodrigo Sánchez-Bayona1,2, Liz Ruiz-Estigarribia1, Clara Gomez-Donoso1, Miguel Angel Martinez-González1,3,4, Estefanía Toledo1,3,4
1Department of Preventive Medicine and Public Health, University of Navarra., Pamplona, Spain, 2Department of Oncology, University of Navarra Clinic., Pamplona, Spain, 3Biomedical Research Center Network on Physiopathology of Obesity and Nutrition (CIBERobn), Institute of Health Carlos III, Madrid, Spain, 4IdiSNA, Navarra Institute for Health Research., Pamplona, Spain, 5Department of Nutrition, Harvard T.H. Chan School of Public Health., Boston, USA

P146-T | Plasma trimethylamine-N-oxide and related metabolites are associated to type 2 diabetes risk in the PREDIMED trial
Christopher Papandreou1, Mònica Bulló1, Yan Zheng2, Miguel Ruiz-Canela3, Edward Yü2, Marta Guasch-Ferre2, Estefanía Toledo3, Clary Clish4, Dolores Corella5, Ramon Estruch6, Emilio Ros7,Montserrat Fitó8, Fernando Arós9, Miquel Fiol10, José Lapetra11, Lluís Serra-Majem12, Enrique Gómez-Gracia13, Liming Liang14, Georgios Fragkiadakis15, Cristina Razquin1, Frank Hu2, Jordi Salas-Salvadó1
1Human Nutrition Unit, Faculty of Medicine and Health Sciences, Institut d’Investigació Sanitària Pere Virgili, Rovira i Virgili University, Reus, Spain, Reus, spain, 2Department of Nutrition, Harvard T.H. Chan School of Public Health, Boston, MA, USA, Boston, USA, 3University of Navarra, Department of Preventive Medicine and Public Health, IdiSNA, Pamplona, Spain, 4Broad Institute of MIT and Harvard University, Cambridge, USA, 5Department of Preventive Medicine, University of Valencia, Valencia, Spain, 6Department of Internal Medicine, Department of Endocrinology and Nutrition Institut d’Investigacions Biomediques August Pi Sunyer (IDI- BAPS), Hospital Clinic, University of Barcelona, Barcelona, Spain, 7Lipid Clinic, Department of Endocrinology and Nutrition Institut d’Investigacions Biomediques August Pi Sunyer (IDI- BAPS), Hospital Clinic, University of Barcelona, Barcelona, Spain, 8Cardiovascular and Nutrition Research Group, Institut de Recerca Hospital del Mar, Barcelona, Spain, 9Department of Cardiology, University Hospital of Alava, Vitoria, Spain, 10Institute of Health Sciences IUNICS, University of Balearic Islands and Hospital Son Espases, Palma de Mallorca, Spain, 11Department of Family Medicine, Primary Care Division of Sevilla, San Pablo Health Center, Sevilla, Spain, 12Department of Clinical Sciences, University of Las Palmas de Gran Canaria, Las Palmas, Spain, 13Department of Preventive Medicine, University of Málaga, Málaga, Spain, 14Departments of Epidemiology and Statistics, Harvard T.H. Chan School of Public Health, Boston, USA, 15Department of Nutrition and Dietetics, Technological Education Institute of Crete, Crete, Greece

P147-T | Assessing dietary sustainability at the community level
Cristina Ruano-Rodriguez2, Paula Momo-Cabrera1, Adriana Ortiz-Andrelluchi1, Esther González-Padilla1, Ana Alvarez-Falcón1,2, Luis Serra-Majem1,3
1Research Institute of Biomedical and Health Sciences. University of Las Palmas de Gran Canaria, Las Palmas, Spain, 2Research Unit of the Faculty of Pharmacy, University of Las Palmas de Gran Canaria, Las Palmas, Spain
P148-T | Effects of a walnut-enriched diet for 2 years on oxylipins derived from arachidonic and alpha-linolenic acids
Montserrat Cofan, Aleix Sala-Vila, Antonio Checa, Craig E. Wheelock, Tania-Maria Freitas Simoes, Mercè Serra-Mir, Sujatha Rajaram, Joan Sabaté, Emilio Ros.

P149-T | Comparative study of the oxidative status of subcutaneous and omental fat and their contribution to adipose tissue dysfunction and insulin resistance
María Del Carmen Navarro Ruiz, Rocío Guzmán Ruiz, Alberto Díaz-Ruiz, Juan Ramón Peinado, Antonio Membrives, José López Miranda, María del Mar Malagón.

P150-T | Mediterranean Diet and health outcomes in the SUN cohort
Miguel Ángel Martínez Gonzalez, SILVIA CARLOS, Carmen de la Fuente, Maira Bes-Rastrollo, Cristina Razquin, Anais Rico-Campà, MIGUEL RUIZ-CANELA.

P151-T | Lipidome patterns and the risk of type 2 diabetes in the PREDIMED study
Cristina Razquin, Estefania Toledo, Clary Clish, Miguel Ruiz-canela, Courtney Dennis, Dolores Corella, Emilio Ros, Ramon Estruch, Marta Guasch-Ferre, Enrique Gomez-Gracia, Montserrat Fito, Edward Yu, Jose Lapetra, Dong Wang, Dora Romaguera, Liming Liang, Fernando Aros, Christopher Papandreou, Amy Diek, Monica Bullo, Lluís Serra-Majem, Salas-Salvado Jordi, FB Hu, MA Martinez-Gonzalez.

Universidad De Navarra, Pamplona, Spain.
P152-T | Adherence to Mediterranean diet reduces the prevalence of obesity and abdominal obesity at 4ys and the risk of incident abdominal obesity at 9ys in children of the INMA Study

Leyre Notario-Barandiaran1,2, Manoli García de la Hera1,2, Eva Pereda4,5,10, Ana Fernández-Somoano6,7,8,2, Mónica Guxens6,7,8,2, Sandra González-Palacios1,2, Desirée Valera-Gran2, Laura Torres-Collado2, Loreto Santa Marina4,5,10, Adonina Tardón2, Martine Vrijheid6,7,2, Carmen Iñiguez3,1, Jesús Vioque1,2, Eva María Navarrete Muñoz1,2, 1CIBER de Epidemiología y Salud Pública (CIBERESP), Madrid, Spain, 2Department of Public Health, History of Medicine and Gynecology, Universidad Miguel Hernández, Alicante Institute for Health and Biomedical Research (ISABIAL - FISABIO Foundation), Alicante, Spain, 3Epidemiology and Environmental Health Joint Research Unit (FISABIO-Universitat Jaume I-Universitat de València), Valencia, Spain, 4Instituto de Investigación Sanitaria, BIODONOSTIA, San Sebastian, Spain, 5Departamento de Medicina Preventiva y Salud Pública, Universidad del País Vasco UPV-EHU , Spain, 6ISGlobal, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain, 7Universitat Pompeu Fabra, Barcelona, Spain, 8Department of Child and Adolescent Psychiatry/Psychology, Erasmus University Medical Centre–Sophia Children’s Hospital, Rotterdam, The Netherlands, 9Department of Medicine, Universidad de Oviedo, Oviedo, Asturias, 10Public Health Division of Gipuzkoa, BioDonostia Research Institute, San Sebastian, Spain
P153-T | Validity of glicated hemoglobin in diagnostic of dysglycemia in patients with impaired fasting glucose respect to the oral glucose tolerance test
José Manuel Santos-Lozano1,2, María del Carmen Jiménez1, Antonio Angel-Lugo2, Ana María Gómez3, Angel Vilches-Arenas2, Inmaculada Rivera-Benítez1, Francisco José García-Cortel, Manuel Ortega-Calvo1,2, Carmen Toro-Cortés1, José Lapetra1,2
1Department of Family Medicine, Distrito Sanitario Atención Primaria Sevilla, Servicio Andaluz de Salud, Sevilla, Spain, 2CIBER de Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 3Fundación Pública Andaluza para la Gestión de la Investigación en Salud de Sevilla (FISEVI), Sevilla, Spain, 4Department of Preventive Medicine and Public Health, Universidad de Sevilla, Sevilla, Spain

P154-T | Effects of resveratrol and pterostilbene on NOV/CCN3 in adipose tissue and liver from rats fed an obesogenic diet
Saíoa Gómez-Zorita1,2, Jenifer Trepiana1, Naiara Romo1, Alfredo Fernández-Quintela1,2, María Puy Portillo1,2
1Nutrition and Obesity Group, Department of Nutrition and Food Science, University of the Basque Country (UPV/EHU), VITORIA-GASTEIZ, Spain, 2CIBEROBN Physiopathology of Obesity and Nutrition, Instituto de Salud Carlos III, VITORIA-GASTEIZ, Spain

P155-T | Effects of resveratrol, a phenolic compound found in foods typical in the Mediterranean diet, on brown adipose tissue
Iñaki Milton-Laskibar1,3, Leixuri Aguirre1,3, Uxune Etxeberria2,3, FI Milagro2,3, JA Martínez2,3, MP Portillo1,2
1Nutrition and Obesity Group, Department of Nutrition and Food Science, University of the Basque Country (UPV/EHU), VITORIA-GASTEIZ, Spain, 2Department of Nutrition, Food Sciences and Physiology; Centre for Nutrition Research; University of Navarra, Pamplona, Spain, 3CIBEROBN Physiopathology of Obesity and Nutrition, Instituto de Salud Carlos III, Madrid, Spain

P156-T | Dietary folate intake and cardiometabolic risk in participants of the PREMID-PLUS randomized trial
Eva María Navarrete Muñoz2,4, Manoli García de la Hera1,2, Sandra Gonzalez-Palacios1,2, Laura Torres-Collado1,2, M Fitó4,6, D Corella4,7, JA Martínez4,8, D Romaguera4,9, J Wärnberg4,10, J López-Miranda4,11, R Estruch4,12, A Bueno-Cavanillas1,13, F Aros4,14, JA Tur1,15, F Tinahones4,16, L Serra-Majem4,17, V Martin1,18, J Lapetra4,19, C Vázquez4,20, X Pintó4,21, J Vidal22,23, L Daimiel24, M Delgado-Rodríguez1,25, P Matía26, E Ros5,27, J Salas-Salvado4,28, MA Martinez-Gonzalez1,29, J Vioque1,2
1CIBER Epidemiología y Salud Pública (CIBEResp), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 2Miguel Hernandez University, ISABIAL-FISABIO, Alicante, Spain, 3Department of Preventive Medicine and Public Health, University of Navarra-IDISNA, Pamplona, Spain, 4CIBEROBN Physiopathology of the Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, 5Department of Nutrition, Harvard T. H. Chan School of Public Health, Boston, USA, 6Lips and Cardiovascular Epidemiology Research Unit, Institut Municipal d’Investigació Mèdica (IMIM), Barcelona, Spain, 7Department of Preventive Medicine,
P157-T | Effect of a Mediterranean diet on the primary prevention of atrial fibrillation and major cardiovascular events in hypertensive patients with high cardiovascular risk: results of ICFAMED randomized trial

José Lapetra1,2, Jesús Manuel Lozano-Rodríguez1, Leticia Miró-Moriano2, Manuel Ortega-Calvo1,2, José Manuel Santos-Lozano1,2, Francisco José García-Corte1,2, María Regla Caballero-Valderrama3, Cristina Domínguez-Espinaco4, Sergio Vaquero-Díaz2, Amparo Santos-Calonge1

1Department of Family Medicine, Distrito Sanitario Atención Primaria Sevilla, Servicio Andaluz de Salud, Sevilla, Spain, 2CIBER de Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 3Department of Cardiology, Hospital Universitario Virgen del Rocío, Servicio Andaluz de Salud, Sevilla, Spain, 4Fundación Pública Andaluza para la Gestión de la Investigación en Salud de Sevilla (FISEVI), Sevilla, Spain

P158-T | Ultraprocessed food consumption and all-cause mortality: the University of Navarra Follow-Up (SUN) cohort

Anaïs Rico-Campà1,2,3, Ismael Alvarez-Alvarez1, Raquel de Deus Mendonça1,5, Carmen de la Fuente-Arrillaga1,2,3, Miguel A. Martínez-González1,2,3, Maira Bes-Rastrollo1,2,3

1Department of Preventive Medicine and Public Health, University of Navarra, Pamplona, Spain, 2CIBERObn Physiopathology of Obesity and Nutrition, Institute of Health Carlos III (IISVA), Madrid, Spain, 3IdiSNA, Navarra Institute for Health Research, Pamplona, Spain, 4Department of Nutrition, Harvard T.H. Chan School of Public Health, Boston, USA, 5Department of Nutrition, Federal University of Minas Gerais, , Brasil
P159-T | Comparison of anti-inflammatory properties of molecular complex of pectin with acetylsalicylic acid and same of acetylsalicylic acid
Alexandra Vyshtakalyuk1, Oxana Lenina1, Lubov Mironova1, Salima Minzanova1
1A.E. Arbuzov Institute of Organic and Physical Chemistry - Subdivision of the Federal State Budgetary Institution of Science “Kazan Scientific Center of Russian Academy of Sciences”, Kazan, Russian Federation

P160-T | Use of LC-HRMS based metabolomics to elucidate beer polyphenol health effects in a human cross over intervention trail
Paola Quifer Rada1,2, Gemma Chiva Blanch3,4, Olga Jáuregui5, Ramon Estruch4, Rosa Lamuela Raventos1,2
1Department of Nutrition and Food Science-XARTA-INSA, School of Pharmacy, Campus de l’Alimentació Torribera, University of Barcelona, Barcelona, Spain, 2 CIBER Physiopathology of obesity and nutrition (CIBEROBN). Institute of Health Carlos III, Spain, 3Cardiovascular Research Center (CSIC-ICCC), , Barcelona, Spain, 4 Department of Internal Medicine, Hospital Clinic, Institute of Biomedical Investigation August Pi i Sunyer (IDIBAPS), University of Barcelona, Barcelona, Spain, 5Scientific and Technological Centers of the University of Barcelona (CCiTUB), Spain

P161-T | Correlation between circulating microRNAs and chronic kidney disease in patients with and without type 2 diabetes
Axel Muendlein1,2, Kathrin Geiger4, Andreas Leiherer1,2,3, Christoph H. Saely1,2,4,5, Janine Ebner1, Eva-Maria Brandtner1, Daniela Zanolin1, Alexander Vonbank1,2,4, Arthur Mader1,2,4, Barbara Larcher1,2,4, Peter Fraunberger2,3, Heinz Drexel1,2,5,6
1Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, 2Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, 3Medical Central Laboratories , Feldkirch, Austria, 4Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, 5Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, 6Drexel University College of Medicine, Philadelphia, United States
Poster session 3

Friday, 1 June, 12.30-14.30

W2 | Mitochondria, ageing and disease  P001-F to P034-F
W3 | Cardiology-CIBERCV  P035-F to P068-F
W4 | Hepato-Gastroenterology/Lipids  P069-F to P090-F
W6 | Precision nutrition  P091-F to P099-F
W7 | Obesity-CIBEROBN  P100-F to P125-F
W9 | Miscellaneous Medical Topics  P126-F to P142-F

W2 | Mitochondria, ageing and disease ( P001-F to P034-F )

P001-F | Redox status of a metastatic microenvironment in the liver of patients with colorectal cancer
Konstantin Usachev¹, A.P. Burlaka¹, A.A. Burlaka², A.V. Vovk¹, I.I. Ganusevich¹, S. Lukin¹,³, S.V. Virko¹, K. Iskhakova⁴, M. Gafurov⁴
¹R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine, Kyiv 03022, Ukraine, Kyiv, Ukraine, ²Ukrainian National Cancer Institute, Kyiv 03022, Ukraine, Kyiv, Ukraine, ³V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Kyiv 03028, Ukraine, Kyiv, Ukraine, ⁴Kazan Federal University, Kazan, Russian Federation

P002-F | The effects of amitriptyline on the progression of chronic autoimmune inflammation induced by Freund's adjuvant
Ekaterina Garanina¹, Veronika Khaziakhmetova¹, Olga Muraveva¹, Ekaterina Martynova¹, Liliya Ziganshina¹
¹Kazan Federal University, Kazan, Russian Federation

P003-F | Mitochondrial Changes in the Maternal Liver in a Model of Obesity (MO) During Pregnancy
Susana P. Pereira¹,², Chiara H. Cavallaro¹, Luis Grilo¹, João D. Martins¹, Inês Cardoso¹, Inês Baldeiras¹,³, Teresa Cunha-Oliveira¹, Stephen Ford⁴, Peter W. Nathanielsz⁴, Paulo J. Oliveira¹
¹CNC - Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal, ²Research Centre in Physical Activity Health and Leisure, Faculty of Sports, University of Porto, Porto, Portugal, ³Neurological Clinic, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, ⁴Department of Animal Science, University of Wyoming, Laramie, United States
P004-F | Hypoxia-aglycemia induced ischemic responses in the neonatal rat barrel cortex in vitro
Elvira Juzekeava, Azat Nasretdinov, Mikhail Sintsov, Azat Gainutdinov, Marat Mukhtarov, Roustem Khazipov
1Laboratory of Neurobiology, Kazan (Volga Region) Federal University, Kazan, Russian Federation, 2INMED-INSERM UMR1249, Aix-Marseille University, Marseille, France

P005-F | Novel ischemic penumbra model in vitro
Ilgam Khalilov, Alina Vazetdinova
1Laboratory of Neurobiology, Kazan (Volga Region) Federal University, Kazan, Russian Federation, 2INMED-INSERM UMR1249, Marseille, France, 3University Aix-Marseille II, Marseille, France

P006-F | Mitochondrial Chaperone is a Novel Potential Player in Uterine Leiomyoma
Mariia Grom, Myhailo Makarenko, Dmytro Govsieiev, Roman Vorona, Vladyslav Berestovyi, Inna Sokol, Alla Pogribna
1Research Institute “Zhyttia”, Kyiv, Ukraine

P007-F | Co-cultivation of moss physcomitrella patens and human skin fibroblasts
Elena Zakirova, Irina Chastukhina, Lia Valeeva, Natalia Aleksandrova, Andras Palotas, Albert Rizvanov, Eugene Shakirov
1Kazan Federal University, Kazan, Russian Federation, 2Asklepios-Med (Private Medical Practice and Research Center), Szeged, Hungary

P008-F | Effect of paclitaxel on ultrastructure of adipose-derived mesenchymal stem cells
Leysan Tazetdinova, Zarema Gilazieva, Svetlana Arkhipova, Valeriya Solovyeva, Ekaterina Alekseeva, Almaz Gallyamov, Ruslan Masgutov, Daria Chulpanova, Albert Rizvanov
1Kazan Federal University, Kazan, Russian Federation, 2Republican clinical hospital, Kazan, Russian Federation

P009-F | Procaine local effects on skeletal muscles in dysferlin-deficient Bla/J mice
Olga Chernova, Angelina Titova, Mikhail Mavlikeev, Aygul Shafigullina, Alina Zeynalova, Firuza Faizrakhmanova, Andrey Kiyasov, Roman Deev
1Institute Of Fundamental Medicine And Biology, Kazan (Volga Region) Federal University, Kazan, Russian Federation, 2Human Stem Cell Institute, Moscow, Russian Federation, 3Ryazan State Medical University named after academician I.P.Pavlov, Ryazan, Russian Federation

P010-F | Contribution of endocrine disruptor pesticides exposures to non-contagious diseases of adult population
Natalya Stepanova
1Kazan Federal University (KFU), Kazan, Russian Federation
P012-F | Bacillus pumilus ribonuclease binase induces proinflammatory immune response in macrophages
Anna Makeeva1, Yulia Surchenko2, Hector A. Cabrera-Fuentes1,2, Julian Rodriguez-Montesinos2, Pavel Zelenikhin1, Klaus Preissner3, Olga Ilinskaya1
1Kazan Federal University, Kazan, Russian Federation, 2Justus-Liebig-University, Giessen, Germany

P013-F | Effects of the homocysteine and its metabolites on oxidative stress and exocytosis of secretory granules in rat pituitary GH3 cells
Danila Mishin1, Aisylu Gaifullina1, Svetlana Dmitrieva2, Ksenia Chernova1, Victor Atolagbe1, Guzel Sitdikova1
1Kazan (volga Region) Federal University, Kazan, Russian Federation, 2Kazan Institute of Biochemistry and Biophysics-Subdivision of FIC, Kazan, Russian Federation

P014-F | Cellular uptake and cytotoxicity of unmodified Pr3+:LaF3 nanoparticles
Maksim Pudovkin1, Elena Dudkina1, Pavel Zelenikhin1, Victoria Shtyreva1, Darya Koryakovtseva2, Vladimir Evtugyn1, Vadim Salnikov1, Alexey Nizamutdinov1, Vadim Semashko1
1Kazan (volga Region) Federal University, Kazan, Russian Federation

P015-F | Changes in the redox status of the brain after Low level light therapy
Juan Carlos Bermejo-Millo1, V. García Menéndez2, A. Martín Pernía2, J.A. Martínez Esteban2, H. González Pardo3, J.L. Arias3, N.M. Conejo1, B. Caballero1,4, I. Vega-Naredo1,4, A. Coto-Montes1,4
1Department of Cell Biology and Morphology, University of Oviedo, Oviedo, Spain, 2Department of electrical engineering, computer electronics and systems, University of Oviedo, Oviedo, Spain, 3Laboratory of Neuroscience, Department of Psychology, Instituto de Neurociencias del Principado de Asturias (INEUROPA), University of Oviedo, Oviedo, Spain, 4Instituto de Investigación Sanitaria del Principado de Asturias (ISPA), Oviedo, Spain

P016-F | Altered mitochondrial function and oxidative stress in skeletal muscle by leptin deficiency. Attenuation by melatonin
Yaiza Potes1,2, Juan Carlos Bermejo-Millo1, Andrea Díaz-Luis1, Adrian Rubio-González1, Beatriz de Luxán-Delgado3, Juan Jose Solano2,4, Beatriz Caballero1,2, Ana Coto-Montes1,2, Ignacio Vega-Naredo1,2
1Department of Cell Biology and Morphology, Faculty of Medicine, University of Oviedo, Oviedo, Spain, 2Instituto de Investigación Sanitaria del Principado de Asturias (ISPA), Oviedo, Spain, 3Department for Cancer Stem Cells and Ageing, Barts Cancer Institute, Queen Mary University of London, London, England, 4Geriatric Service, Monte Naranco Hospital, Oviedo, Spain
P017-F | Alternate assembly of SDHA regulates energy balance under bioenergetic stress
Linda Krobova1, Katerina Vanova1, Ayenachew Bezawork-Geleta2, He Wen3, Mark P. Molloy4, Stepana Boukalova1, Renata Zobalova1, Silvia Magalhaes Novais1, Pavel Abaffy1, Ravindra Naraine1, LanFeng Dong2, Karel Pacak5, Jakub Rohlena1, Sunghyouk Park1, Jiri Neuzil1,2
1Institute Of Biotechnology, Czech Academy Of Sciences, Prague, Czech Republic,
2School of Medical Sciences, Griffith University, Southport, Australia, 3College of Pharmacy, Natural Product Research Institute, Seoul National University, SEOUL, Korea,
4Australian Proteome Analysis Facility, Macquarie University, North Ryde, Australia,
5Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, USA

P018-F | Acute changes in cortical network functions during endothelin-1 induced local brain ischemia
Daria Vinokurova1, Andrey Zakharov1, Nailya Lotfullina1, Gulshat Burkhanova1, Kseniya Chernova1, Julia Lebedeva1, Roustem Khazipov1,2
1Laboratory of Neurobiology, Kazan Federal University, Kazan, Russian Federation,
2INMED-INSERM UMR1249, Aix-Marseille University, Marseille, France

P019-F | Role of Parkin in the age-mediated decline in brown adipose tissue thermogenic activity
Montserrat Cairó1,2,3, Alejandro Delgado-Anglés1,2,3, Laura Campderrós1,2,3, Francesc Villarroya1,2,3, Marta Giralt1,2,3, Joan Villarroya1,2,3,4
1Universitat de Barcelona, Barcelona, Spain, 2CIBER Fisiopatología de la Obesidad y Nutrición, Barcelona, Spain, 3Institut de Biomedicina Universitat de Barcelona (IBUB), Barcelona, Spain, 4Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

P020-F | Mitochondriotropic antioxidants based on dietary phenolic acids as modulators of oxidative stress on skin fibroblasts
Caroline Veloso1, José Teixeira1,2, Fernando Cagide3, Sofia Benfeito2, Catarina Oliveira3, Fernanda Borges2, Paulo Oliveira1
1Center For Neurosciences And Cell Biology, UC Biotech Building, Lot 8A, Biocant Park 3060-197 Cantanhede, PORTUGAL, Coimbra, Portugal, 2CIQUP/Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Porto, Portugal

P022-F | A high-throughput method for catalase activity determination
Luís Grilo1, Chiara H. Cavallaro1, João D. Martins1, Paulo J. Oliveira1, Susana P. Pereira1,2
1CNC - Center for Neuroscience and Cell Biology, UC-Biotech, Biocant Park, University of Coimbra, Coimbra, Portugal, 2Research Centre in Physical Activity Health and Leisure, Faculty of Sports, University of Porto, Porto, Portugal
P023-F | The bittersweet relation between O-GlcNAcylation and Alzheimer’s disease: a focus on mitochondria
Tiffany S. Pinho1, Sónia C. Correia1,2, Paula I. Moreira1,3
1Center For Neuroscience And Cell Biology (CNC), Coimbra, Portugal, 2Institute for Interdisciplinary Research, University of Coimbra, Coimbra, Portugal, 3Laboratory of Physiology, Faculty of Medicine, University of Coimbra, Coimbra, Portugal

P024-F | Effectiveness of local hypothermia in the infarct-related artery to reduce reperfusion injury of the myocardium
Sergey Zinchenko1, Airat Khalirakhmanov1, Aydar Sharafeev1, Julia Troshina2
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical University, Kazan, Russian Federation

P025-F | Analysis of cytokines level in mice with amyotrophic lateral sclerosis after mesenchymal stromal cell infusion
Adelya Mullakhmetova1, Zarema Gilazieva1, Valeriya Syromiatnikova1, Ekaterina Garanina2, Galina Masgutova1, Yana Mukhamedshina1, Gulcin Tezcan1, Svetlana Arkhipova1, Albert Rizvanov1
1Kazan Federal University, Kazan, Russian Federation

P026-F | Effect of mesenchymal stromal cell transplantation on pro-inflammatory cytokine pattern in transgenic mice with Alzheimer’s disease
Adelya Mullakhmetova1, Zarema Gilazieva1, Valeriya Syromiatnikova1, Ekaterina Garanina2, Galina Masgutova1, Yana Mukhamedshina1, Gulcin Tezcan1, Svetlana Arkhipova1, Albert Rizvanov1
1Kazan Federal University, Kazan, Russian Federation

P027-F | Aging is associated with alterations of intestinal microbiota composition and barrier function
Annette Brandt1, Amélie Camarinha-Silva2, Cheng Jun Jin1, Anja Baumann1, Anna Janina Engstler1, Anika Nier1, Cathrin Sellmann1, Christian Schmeer4, Otto W. Witte4, Ina Bergheim1
1University Of Vienna, Vienna, Austria, 2University of Hohenheim, Stuttgart, Germany, 3Friedrich-Schiller-University Jena, Jena, Germany, 4University Hospital Jena, Jena, Germany

P029-F | Novel dual binding site inhibitor for treatment of Alzheimer’s disease
Irina Zueva1, Vyacheslav Semenov1, Konstantin Petrov1, Evgeny Nikolsky1
1Institute of Organic and Physical Chemistry Subdivision of the Federal State Budgetary Institution of Science “Kazan Scientific Center of Russian Academy of Sciences”, Kazan, Russian Federation
**P031-F | Effect of etomoxir on mitochondrial function assessed by high-resolution respirometry**
Filomena SG Silva, Timea Komlodi, Luiz F Garcia-Souza, Paulo J Oliveira, Erich Gnaiger
1Center For Neuroscience And Cell Biology, Coimbra, Portugal, 2Oroboros Instruments, Innsbruck, Austria, 3Department Visceral, Thoracic Surgery, Medical University of Innsbruck, Innsbruck, Austria

**P032-F | Sirtuins 1 and sirt 3 in brain injury after chronic cerebral hypoperfusion in a mouse model**
Tetiana Lapikova-Bryhinska, Olga Harmatina, Tetiana Voznesenskaya, Natalia Grushka, Olga Shepel, Irina Kolosova, Larisa Bratus
1Bogomoletz Institute Of Physiology of NAS of Ukraine (BIPH), Kyiv, Ukraine, 2Institute of Neurosurgery named after acad. A.P.Romodanov of the NAMS of Ukraine, Kyiv, Ukraine, 3National Military Medical Clinical Center “Main Military Clinical Hospital, Kyiv, Ukraine

**P033-F | Hepatic mitochondrial dysfunction induced by silver nanoparticles in Sprague-Dawley rats**
Rui Silva, João Teodoro, Ana Varela, Filipe Duarte, Anabela Rolo, Saber Hussain, Carlos Palmeira
1Department of Life Sciences of the Faculty of Sciences & Technology of the University of Coimbra, Coimbra, Portugal, 711th HPW/RHDI, Molecular Bioeffects Branch, Bioeffects Division, Human Effectiveness Directorate, Air Force Research Laboratory, Wright Patterson AFB, Dayton, USA

**P034-F | The interplay between cAMP and Sirtuins as a nexus of mitochondrial and metabolic control**
João Amorim, João Teodoro, Rui Silva, Anabela Rolo, Clemens Steegborn, David Sinclair, Carlos Palmeira
1CNC,IBILI - Center for Neurosciences and Cell Biology, University of Coimbra, Coimbra, Portugal, 2IIIUC – Institute of Interdisciplinary Research, University of Coimbra, Coimbra, Portugal, 3Glenn Labs for the Biological Mechanisms of Aging, Department of Genetics, Harvard Medical School, Boston, USA, 4Department of Life Sciences, University of Coimbra, Coimbra, Portugal, 5Department of Biochemistry, University of Bayreuth, Bayreuth, Germany

**W3 | Cardiology-CIBERCV (P035-F to P068-F)**

**P035-F | Ventricular or atrial epicardial fat secretome can be regulated by acetylcholine: new preclinical models on autonomic dysfunction**
M.Couselo-Seijas, RM Agra, AL Fernández, JM Martínez-Cereijo, SB Bravo, JN López-Canoa, JL Martínez-Sánchez, J García-Seara, JR González-Juanatey, M Rodríguez-Mañero, S Eiras
P036-F | Protective effect of lipoxin A4 analog BML-111 on a murine model of autoimmune myocarditis
Rafael I. Jaén1, Adrián Povo-Retana1,3, Verónica Terrón1, Almudena Val-Blasco2, María Fernández-Velasco2,3, Lisardo Boscá1,3, Patricia Prieto1,3
1Instituto de Investigaciones Biomédicas “Alberto Sols” (CSIC-UAM), Madrid, Spain, 2Instituto de Investigación Sanitaria del Hospital Universitario La Paz (IdiPAZ), Madrid, Spain, 3Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV), Madrid, Spain

P037-F | Hydrogen sulfide amplifies the negative inotropic effect of acetylcholine in mouse atrium
Anastasiya Blokhina1, Mr. Nail Khaertdinov1, Kseniia Chernova1, Guzel Sitdikova1
1Kazan (volga Region) Federal University, Kazan, Russian Federation

P038-F | ApoA-1 oxidation in abdominal aortic aneurysm
Emilio Camafeita1, Diego Martínez-López2, Raquel Roldán-Montero2, Inmaculada Jorge1, Elena Burillo2, Luis Miguel Blanco-Colio2, Jesús Egido2, Jean-Baptiste Michel3, Jesús Vázquez1, José Luis Martín-Ventura2
1Laboratorio de Proteómica Cardiovascular, CNIC and CIBERCV, Madrid, Spain, 2Laboratorio de Patología Vascular, FIIS-FJD-Universidad Autónoma and CIBERCV, Madrid, Spain, 3INSERM U1148, Paris, France

P039-F | Lung ultrasound may reduce heart failure hospitalizations: preliminary results from the LUS-HF trial
Mercedes Rivas-Lasarte1, Juan Fernandez Martinez1, Alba Maestro Benedicto1, Eduard Solé Gonzalez1, Jesús Álvarez-Garcia1, Laura Lopez Lopez1, Sonia Mirabet Pérez1, Vicens Brossa1, Alessandro Sionis1, Eulalia Roig Minguell1, Joan Cinca Cuscullola1
1Cardiology Department Hospital De La Santa Creu I Sant Pau, Barcelona, Spain

P040-F | Involvement of Fibroblast growth factor-21 in alcohol-induced cardiomyopathy
Gemma Ferrer-Curriu1, Mariona Guitart-Mampel2, Glòria Garrabou2, Francesc Villarroya1, Joaquim Fernández-Solà1, Anna Planavila1
1Biochemistry and Molecular Biomedicine Dept., Faculty of Biology - Univ. of Barcelona and CIBERON, Barcelona, Spain, 2Muscle Research and Mitochondrial Function Lab., Cellex-IDIBAPS, Faculty of Medicine and Health Science - Univ. of Barcelona, Internal Medicine Service - Hospital Clinic of Barcelona and CIBERER, Barcelona, Spain, 3Alcohol Unit, Dept. of Medicine - Hospital Clinic Univ. of Barcelona, Barcelona, Spain
P041-F | High intensity focused ultrasound for treatment of peripheral artery disease
M.H.A. Groen1,2, N.C. Morsink1,2, C.E.V.B. Hazenberg3, G.J. de Borst3, A.J. Teske1, P.A. Doevedans1,4, R. van Es1
1Department of Cardiology, University Medical Center Utrecht, Utrecht, Netherlands, 2Technical Medicine, University of Twente, Enschede, Netherlands, 3Department of Vascular Surgery, University Medical Center Utrecht, Utrecht, Netherlands, 4Netherlands Heart Institute, Utrecht, Netherlands

P042-F | A simple CHA2DS2-VASc derived score for assessing long-term prognosis in STEMI patients (CardioCHUS STEMI registry)
Alfredo Redondo Diéguez1, Belen Cid Alvarez1, Ramiro Trillo Nouche1, Alejandro Ávila Carrillo1, Fernando Gómez Peña1, Xoan Sanmartín Pena1, Belén Álvarez Álvarez1, Diego López Otero1, José Ramón González Juane1y1
1CHUS (Complexo Hospitalario Univeristario de Santiago de Compostela) CIBERCV, Santiago De Compostela, Spain

P043-F | Six degrees of freedom robotic arm to guide high intensity focused ultrasound therapy for atherosclerotic plaques
N.C. Morsink1,2, M.H.A. Groen1,2, C.E.V.B. Hazenberg3, G.J. de Borst3, A.J. Teske1, P.A. Doevedans1,4, R. van Es1
1Department of Cardiology, University Medical Center Utrecht, Utrecht, Netherlands, 2Technical Medicine, University of Twente, Enschede, Netherlands, 3Department of Vascular Surgery, University Medical Center Utrecht, Utrecht, Netherlands, 4Netherlands Heart Institute, Utrecht, Netherlands

P044-F | Exploiting gene expression data for understanding gender-specificity in hypertrophic cardiomyopathy
Ana Isabel Fernández Avila1, Raquel Yotti1, Maria Ángeles Espinosa1, Irene Méndez1, Maria Tamargo1, Sofía Cuenca1, Francisco Fernández Avilés1
1Cibercv, HGUGM, Madrid, Spain

P045-F | Mitochondrial respiratory changes in pulmonary artery in the monocrotaline pulmonary arterial hypertension model
Montserrat Batlle1,5, Amelia Power2, Christian Hedges3, Timothy Jones2, Lluis Mont1,4,5, Anthony Hickey3, Marie Ward2
1IDIBAPS, Barcelona, Spain, 2Department of Physiology, Faculty of Medical and Health Sciences, The University of Auckland, Auckland, New Zealand, 3School of Biological Science, The University of Auckland, Auckland, New Zealand, 4Hospital Clinic de Barcelona, Barcelona, Spain, 5CIBERCV, Spain

P046-F | Potential role of MMP9 in vascular remodeling triggered by high-intensity exercise. Results of aortic microRNA levels from an exercise murine model
Gemma Sangüesa1,2, Cira Rubies1, Montserrat Batlle1,2, Nadia Castillo1, Guerau Fernandez3, Maria Sanz-de-la-Garza4, Marta Sitges4,2, Josep Brugada4,2, Lluis Mont4,2, Eduard Guasch1,2,4
P047-F | Stimulation of endogenous hydrogen sulfide synthesis contributes to the restoration of cardiac function after ischemia-reperfusion in old animals
Lidiia Mys1, Natalia Strutynska1, Julia Goshovska1, Vadim Sagach1
1Bogomoletz Institute Of Physiology Of Nas Of Ukraine, Kiev, Ukraine

P048-F | New insights into the role of autophagy in experimental cardiac pathophysiology
Anna Planavila1, Celia Rupérez1, Gemma Ferrer-Curriu3, Montse Cairó1, Joan Villarroya1, Francesc Villarroya1
1Departament de Bioquímica i Biologia Molecular. Institut de Biomedicina de la Universitat de Barcelona (IBUB). University of Barcelona, Barcelona, Spain

P049-F | H2S donor (NAHS) attenuates age-associated diastolic dysfunction by oxidative/nitrosative stress inhibition and cNOS recoupling
Kostiantyn Drachuk1,2, Natalya Dorofeyeva1, Vadim Sagach1
1Bogomoletz Institute Of Physiology, Nas Ukraine, Kyiv, Ukraine, 2National O.O. Bohomolets Medical University, Kyiv, Ukraine

P050-F | Age-dependence of aortic geometry in Marfan syndrome: a 4D-flow CMR study
Andrea Guala1, Gisela Teixido-Tura1, Jose Rodriguez-Palomares1, Lydia Dux-Santoy1, Aroa Ruiz-Munoz1, Ilaria Dentamaro1, Nicolas Villalva1, Filipa Valente1, Laura Galian1, Laura Gutierrez1, Chiara Granato1, Teresa Gonzalez-Alujas1, Ruben Fernandez1, Augusto Sao-Aviles1, David Garcia-Dorado1, Artur Evangelista1
1hospital Vall D’hebron, Department Of Cardiology. VHIR, Universitat Autònoma De Barcelona, Barcelona, Spain

P051-F | Effect of spider silk matrix on cardiac tissue regeneration of mesenchymal stem cells
Lidia Gomez-Cid1, Lucia Fuentes1, Maria Eugenia Fernandez-Santos1, Susana Suarez-Sancho1, Virginia Plasencia1, Andreu Martinez Climent2, Ricardo Sanz-Ruiz1, My Hedhammar2, Felipe Atienza1, Francisco Fernandez Aviles1
1Hospital GU Gregorio Marañon, Servicio Cardiología. CIBERCV, Madrid, Spain, 2KTH School of Biotechnology, AlbaNova University Center, Stockholm, Sweden

P052-F | Drug timing optimization in arterial hypertension treatment: One step towards personalized blood pressure control based on the individual circadian blood pressure profile
Oleg Mamontov1,2, Oleg Markelov2, Mikhail Bogachev3,4
1Almazov National Medical Research Centre, Saint Petersburg, Russian Federation,
P053-F | Blood pressure - heart rate synchronization: A complementary indicator of the baroreflex mechanism activity?
Nikita Pyko¹, Svetlana Pyko¹ ², Oleg Markelov¹, Oleg Mamontov² ³, Mikhail Bogachev¹ ⁴
¹St. Petersburg Electrotechnical University, Saint Petersburg, Russian Federation, 
²Pavlov First State Medical University, Saint Petersburg, Russian Federation, 
³Kazan Federal University, Kazan, Russian Federation

P054-F | Action potential duration and conduction velocity as predictors of ventricular tachycardia inducibility
Ismael Hernández Romero¹, Alejandro Liberos², Ángel Arenal¹, Pablo M. Ruiz-Hernández¹, Verónica Crisóstomo², Ricardo Sánz¹, Felipe Atienza, Maria S. Guillém³, Javier Bermejo¹, Francisco M. Sánchez-Margallo², Andreu M. Climent¹, Francisco Fernández-Avilés¹
¹Hospital General Universitario Gregorio Marañón and CIBERCV, Madrid, Spain, 
²Centro de Cirugía de Mínima Invasión Jesús Usón, Cáceres, Spain, 
³ITACA, Universitat Politècnica de Valencia, Valencia, Spain

P055-F | Thrombus aspiration in ST-Segment-Elevation Myocardial Infarction. safety and one-year outcomes. A single center experience: CardioCHUS MI registry
Alfredo Redondo Diéguez¹, Belén Cid Alvarez¹, Ramiro Trillo Nouche¹, Alejandro Avila Carrillo¹, Fernando Gómez Peña¹, Belén Alvarez Alvarez¹, Xoan Sanmartin Pena¹, Diego Lopez Otero¹, José Ramón González Juanatey¹
¹Chus (Complexo Hospitalario Univeristario de Santiago de Compostela). CiberCV, Santiago De Compostela, Spain

P056-F | Carcinoid Heart Disease; the Importance of a Multidisciplinary Heart Team
Einar A Hart¹, Ronald CA Meijer, Margot Tesselaar, Anton Tuinenburg, Rachel S van Leeuwaarde, Steven AJ Chamuleau
¹Umc Utrecht, Utrecht, Netherlands

P057-F | Fracture of the sesamoid bone of the thumb: a case report and summary on literature
Niels van der Naald², Mira van der Naald¹, Arnold Schuurman¹
¹University Medical Center Utrecht, Utrecht, Netherlands, 
²St Antonius Hospital, Nieuwegein, Netherlands

P059-F | Calix[4]arene methylene bisphosphonic acids as promising inhibitors of plasmin fibrinolytic activity
Tetiana Yatsenko¹, Tetiana Grinenko¹, Olha Savchuk¹, Olena Yusova¹
¹Palladin Institute of Biochemistry of NAS of Ukraine, Kyiv, Ukraine
P060-F | Pro B-type Natriuretic Peptide Strongly Predicts All Cause and Cardiovascular Mortality in Peripheral Arterial Disease Patients With as Well as in those Without Type 2 Diabetes
Arthur Mader¹,²,³
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria,

P061-F | Pro-B-type Natriuretic Peptide Strongly Predicts Cardiovascular Mortality in Coronary Artery Disease Patients with Type 2 Diabetes
Daniela Zanolin¹, Christoph H. Saely¹,²,³,⁴, Alexander Vonbank¹,²,³, Christina Lins⁵, Andreas Leihrer¹,², Arthur Mader¹,²,³, Barbara Larcher¹,²,³, Axel Muendlein¹,², Heinz Drexel¹,²,⁴,⁶
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, ⁴Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, ⁵Kantonsspital St. Gallen, , Switzerland, ⁶Drexel University College of Medicine, Philadelphia, United States

P062-F | Serum proBNP Predicts a Decline in Kidney Function Independently of Type 2 Diabetes, the Baseline Kidney Function and Baseline Coronary Artery Disease
Christoph H. Saely¹,²,³,⁴, Christina Lins⁵, Daniela Zanolin¹, Andreas Leihrer¹,², Alexander Vonbank¹,²,³, Arthur Mader¹,²,³, Barbara Larcher¹,²,³, Axel Muendlein¹,², Heinz Drexel¹,²,⁴,⁶
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, ⁴Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, ⁵Kantonsspital St. Gallen, , Switzerland, ⁶Drexel University College of Medicine, Philadelphia, United States

P063-F | Serum Uromodulin Predicts a Decline in Kidney Function Independently from the Presence of Type 2 Diabetes
Andreas Leihrer¹,²,³, Axel Muendlein¹,², Christoph H. Saely¹,²,⁴,⁵, Eva M. Brandtner¹, Kathrin Geiger¹, Arthur Mader¹,²,³, Barbara Larcher¹,²,⁴, Peter Fraunberger²,³, Heinz Drexel¹,²,⁵,⁶
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Medical Central Laboratories, Feldkirch, Austria, ⁴Medical Central Laboratories, Feldkirch, Triesen, Liechtenstein, ⁵Medical Central Laboratories, Feldkirch, Austria, ⁶Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, ⁷Drexel University College of Medicine, Philadelphia, United States
P064-F | The Creatinine to Uromodulin Ratio in Serum Predicts Major Cardiovascular Events Independently from the Presence of Type 2 Diabetes
Andreas Leiherer¹,²,³, Axel Muenklein¹,², Christoph H. Saely¹,²,⁴,⁵, Janine Ebner¹,², Eva M. Brandtner¹, Arthur Mader¹,²,⁴, Barbara Larcher¹,²,⁴, Peter Fraunberger²,⁴, Heinz Drexel¹,²,⁵,⁶
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Medical Central Laboratories, Feldkirch, Austria, ⁴Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, ⁵Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, ⁶Drexel University College of Medicine, Philadelphia, United States

P065-F | Type 2 Diabetes, Chronic Kidney Disease, and Mortality in Patients with Established Cardiovascular Disease
Christoph H. Saely¹,²,³,⁴, Alexander Vonbank¹,²,³, Christina Lins⁵, Daniela Zanolin⁶, Andreas Leiherer¹,³, Arthur Mader¹,²,³, Barbara Larcher¹,²,³, Axel Muenklein¹,²,⁴, Heinz Drexel¹,²,³,⁴,⁵
¹Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, ²Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, ³Medical Central Laboratories, Feldkirch, Austria, ⁴Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, ⁵Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, ⁶Drexel University College of Medicine, Philadelphia, United States

P066-F | Organ-specific tissue manifestations based on mutations from panel in Pediatric Onset Dilated Cardiomyopathy
Arjan Sammani¹, Annette Baas², L van der Pol², Hans Breur², G Visser², Folkert Asselbergs¹, Magdalena Harakalova¹
¹Umc Utrecht, Utrecht, Netherlands, ²Wilhelmina Childrens’ Hospital, Utrecht, Netherlands

P067-F | Mechanism of antiplatelet action induced by mitoq via mitochondrial protection
Eduardo Fuentes¹, Ramiro Araya-Maturana², Diego Arauna³, Manuel Fuentes¹, Iván Palomo¹
¹Thrombosis Research Center, Dept. of Clinical Biochemistry and Immunohaematology, Faculty of Health Sciences, Interdisciplinary Excellence Research Program on Healthy Aging (PIEIES), Talca, Chile, ²Instituto de Química de Recursos Naturales, Universidad de Talca, Talca, Chile

P068-F | A translational, high-throughput proteomics platform for the deep analysis of plasma samples
Estefanía Núñez¹,³, Enrique Calvo¹,³, Elena Bonzón-Kulichenko¹,³, Ricardo Ponce¹, Fernando García-Marqués¹, María Gómez-Serrano¹, Rocío Campo¹, Ricardo Magni¹, Leticia Fernández-Frier¹,³, Antonio Fernández-Ortiz¹,³, Borja Ibañez¹,³,⁴, Jesús Vázquez¹,³
W4 | Hepato-Gastroenterology/Lipids ( P069-F to P90-F )

P069-F | Life expectancy is unaffected by thyroid function parameters in euthyroid subjects: the PREVEND cohort study
Robin Dullaart¹, Lynnda van Tienhoven-Wind¹, Eke Gruppen¹, Wim Sluiter¹, Stephan Bakker¹
¹University, Groningen, Netherlands

P070-F | Severe Hyperlipidemia in Chronic Cholestatic Liver Disease treated by Apheresis
Viktoria F Koehler¹, Klaus G Parhofer¹
¹Medical Department IV, Campus Grosshadern, University Munich, Munich, Germany

P071-F | Activation of FGFR-signaling mediates resistance of gastrointestinal stromal tumors (GISTs) to imatinib (IM)
Ekaterina Garanina², Sergei Boichuk¹, Pavel Dunaev¹, Aigul Galembikova¹, Elena Shagimardanova², Oleg Gusev², Svetlana Khaiboullina²
¹Kazan State Medical University, Kazan, Russian Federation, ²Kazan Federal University, Kazan, Russian Federation

P072-F | Glucose responsive polymeric nanocontainers for insulin delivery
Igor Antipin¹², Albina Ziganshina¹², Tatiana Sergeeva², Rezeda Mukhitova², Irek Nizameev², Marsil Kadirov², Alexandra Voloshina², Vladimir Zobov²
¹Kazan Federal University, Kazan, Russian Federation, ²A.E. Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russian Federation

P074-F | Quality of life in patients with Irritable Bowel Syndrome: the impact of a customized nursing intervention
Mircea Vasile Milăciu¹, Melania-Cosmina Mureșan¹, Dorel Sâmpelean¹, Vasile Negrean¹, Lorena Ciumărnean¹
¹“Iuliu Hațieganu” University Of Medicine And Pharmacy, Cluj-napoca, Romania

P075-F | The effects of myeloid cell-derived IL-1 alpha on acute colon inflammation
Elena Voronov¹, Marina Bersudsky¹, Irena Kaplanov¹, Ron N Apte³
¹Ben Gurion University, Beer Sheva, Israel
P076-F | Novel molecular mechanisms affecting sensitivity of imatinib (IM)-resistant gastrointestinal stromal tumors to the topoisomerase type II inhibitors
Ekaterina Garanina¹, Sergei Boichuk², Aigul Galembikova², Pavel Dunaev², Svetlana Khaiboullina¹
¹Kazan Federal University, Kazan, Russian Federation, ²Kazan State Medical University, Kazan, Russian Federation

P077-F | The burden of abdominal surgery in patients with Familial Mediterranean Fever (FMF) in Apulia and Basilicata, southern Italy
Piero Portincasa¹, Giuseppe Calamita², Giuseppe Scaccianoce³
¹Department of Biomedical Sciences & Human Oncology, University “Aldo Moro” of Bari Medical School, Bari, Italy, ²Department of Biosciences, Biotechnologies and Biopharmaceutics, University “Aldo Moro”, Bari, Italy, ³Gastrointestinal Endoscopy, “Umberto I” Hospital, Altamura, Bari, Italy

P078-F | Athletes have longer telomeres than age-matched controls
Elena Valeeva¹,², Ildus Ahmetov², Olga Kravtsova³
¹Kazan Federal University, Kazan, Russian Federation, ²Kazan State Medical University, Kazan, Russian Federation

P079-F | The interrelationship between relative telomere length and sports success
Elena Valeeva¹,², Ildus Ahmetov², Olga Kravtsova³
¹Kazan Federal University, Kazan, Russian Federation, ²Kazan State Medical University, Kazan, Russian Federation

P080-F | Eradication of Helicobacter Pylori infection in Apulia: let’s do it better
Michele Pio Lorusso¹, Maria Domenica di Palo¹, Ornella de Bari¹, Paola Vitellio¹,², Rossella Monaco¹, Danila De vito², Piero Portincasa¹
¹Clinica Medica “A. Murri”, Department of Biomedical Sciences and Human Oncology, University of Bari “A. Moro”, Bari, Italy, ²Department of Basic Medical Sciences, Neurosciences and Sence Organs, University of Bari “A. Moro”, Bari, Italy

P081-F | Peculiarities in nutrition of the adult population of the city of kazan
Suryana Fomina¹, Natalya Stepanova¹
¹Kazan Federal University (KFU), Kazan, Russian Federation

P082-F | Antibiotic resistance of dairy and probiotic lactobacilli and its transfer to pathogenic bacteria
Elizaveta Anisimova¹, Nataliya Bruslik, Dina Yarullina
¹Kazan Federal University, Kazan, Russian Federation

P083-F | Effects of the lactobacilli supplementation on the anxious-phobic state of mice with altered microbiota
Alisa Arslanova¹, Mariya Rudich¹, Kseniia Chernova², Olga Yakovleva²
¹Kazan (volga Region) Federal University, Kazan, Russian Federation
P084-F | The effects of short-chain fatty acids on the motility of the mouse colon
Ilnar Shaidullov¹, Dina Sorokina¹, Kseniia Chernova¹, Mr. Marat Shafigullin¹, Guzel Sitdikova¹
¹Kazan (volga Region) Federal University, Kazan, Russian Federation

P085-F | Antioxidative and anti-inflammatory effects in the realization of hepatoprotective properties of derivative of drug Xymedon with L-ascorbic acid
Alexandra Vyshtakalyuk², Roderic Diabankana², Andrey Parfenov¹, Lilya Gumaro¹, Tatiana Povyysheva¹, Vladimir Zobov¹, Irina Galyametdinova¹, Vyacheslav Semenov¹
¹A.E. Arbuzov Institute of Organic and Physical Chemistry - Subdivision of the Federal State Budgetary Institution of Science “Kazan Scientific Center of Russian Academy of Sciences”, Kazan, Russian Federation, ²Kazan Federal University, Kazan, Russian Federation

P086-F | Gut microbiota in chronic constipation disease: a new therapeutic target
Anastasiya A. Arzamasceva¹, Alisa S. Volkova¹, Marat U. Shafigullin¹, Dilyara R. Khusnutdinova¹, Elizaveta A. Anisimova², Kirill A. Sakulin², Oleg Ju. Karpukhin², Guzel F. Sitdikova¹, Dina R. Yarullina¹
¹Kazan Federal University, Kazan, Russian Federation, ²Kazan State Medical University, Kazan, Russian Federation

P087-F | Detailed histopathological analysis of Caroli’s syndrom case
Mikhail Mavlikeev¹, Angelina Titova¹, Arina Chebochakova¹, Igor Plaks¹², Nasima Gizatullina¹³, Andrey Kiyasov¹, Roman Deev¹³⁶
¹Kazan Federal University, Kazan, Russian Federation, ²Moscow City Oncological Hospital No. 62, Moscow, Russian Federation, ³Institute of Human Stem Cells, Moscow, Russian Federation, ⁴Interregional Clinical Diagnostic Center, Kazan, Russian Federation, ⁵Kazan State Medical University, Kazan, Russian Federation, ⁶Ryazan State Medical University named after academician I.P. Pavlov, Ryazan, Russian Federation

P090-F | Influence of derivative of drug Xymedon with L-ascorbic acid on the cell composition of liver in rats with non-alcoholic steatohepatitis
Alexandra Vyshtakalyuk², Leila Hasanshina², Lilya Gumaro¹, Andrey Parfenov¹, Grigori Belyaev², Daria Kondrashina¹, Vladimir Zobov¹, Irina Galyametdinova¹, Vyacheslav Semenov¹
¹A.E. Arbuzov Institute of Organic and Physical Chemistry - Subdivision of the Federal State Budgetary Institution of Science “Kazan Scientific Center of Russian Academy of Sciences”, Kazan, Russian Federation, ²Kazan Federal University, Kazan, Russian Federation
P091-F | Effect of alcoholic and non-alcoholic beer in the microrna profile of plasma and macrophages in high cardiovascular risk patients
Víctor Micó1, Lidia Daimiel2, Laura Berninches1, Viviana Loria-Kohen2, Isabel Espinosa-Salinas2, José María Ordovás1,3
1Nutritional Genomics and Epigenomics Group, IMDEA Food, CEI UAM + CSIC, 28049 Madrid, Spain., Madrid, Spain,
2Platform for Clinical Trials in Nutrition and Health. GENYAL, IMDEA Food, CEI UAM + CSIC, 28049 Madrid, Spain., Madrid, Spain,
3Nutrition and Genomics Laboratory, JM-USDA Human Nutrition Research Center on Aging at Tufts University, Boston, Massachusetts, MA, -02111, USA., Boston, United States

P092-F | Complex Nutritional Management in a Patient with Two Rare Diseases: Methymalonacidemia (MMA) and Maple Syrup Disease (MSUD)
Nesrin Karabul1, Volker Boettcher1, Ayham Nassour1, Alexander Mann1
1Endokrinologikum Frankfurt, Medical Center, Frankfurt, Germany

P093-F | Maternal obesity (MO) in sheep alters offspring mitochondrial hepatic biology and redefines the protein acetylation pattern
Inês Cardoso1, Teresa Cunha-Oliveira1, Sónia Pinho1, Chiara H. Cavallaro1, Inês Baldeiras1,2, Susana P. Pereira1,3, Stephen Ford4, Peter W. Nathanielsz4, Paulo J. Oliveira1
1MitoXT - Center For Neuroscience And Cell Biology. University of Coimbra, UC-Biotech, Biocant Park, Cantanhede, Portugal, 2Neurological Clinic, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, 3Research Centre in Physical Activity Health and Leisure, Faculty of Sports, University of Porto, Porto, Portugal, 4Department of Animal Science, University of Wyoming, Laramie, USA

P094-F | Genetic variant rs1260326 of GCKR as an indicator of the risk of obesity at early ages
Helena Marcos Pasero1, Elena Aguilar Aguilar1, Isabel Espinosa Salinas1, Rocío de la Iglesia1, Susana Molina1, Gonzalo Colmenarejo1, Ana Ramírez de Molina1, Guillermo Reglero1,2, Viviana Loria Kohen1
1IMDEA-Food Institute. CEI UAM+CSIC, Madrid, Spain, 2Department of Production and Characterization of Novel Foods. Institute of Food Science Research (CIAL) CEI UAM+CSIC, Madrid, Spain

P095-F | Evaluation of HDL cholesterol efflux capacity (CEC) after consumption of an innovative pasta enriched with bioactive components and functional probiotics
Elda Favari1, Eleonora Cipollari1, Francesca Zimetti1, Maria Pia Adorni1, Nicoletta Ronda1, Donato Angelino1, Franco Bernini1, Nicoletta Pellegrini1
1Department of Food and Drug, University of Parma, Parma, Italy
P096-F | Metabolic abnormalities in normal weight children: role of fructose and intestinal permeability
Anika Nier1, Ina Barbara Maier2, Yelda Özel2, Ina Bergheim1
1University of Vienna, Vienna, Austria, 2University of Hohenheim, Stuttgart, Germany

P097-F | Association of NBPF3 gene polymorphism with vitamin B6 level among Tatars
A Syrocheva, Elena Valeeva1, Olga Kravtsova1
1Kazan Federal University, Kazan, Russian Federation

P098-F | Influence of gene polymorphism on vitamin D level among healthy women from Republic of Tatarstan
Iy Garifullova2, Elena Valeeva1, Olga Kravtsova1
1Kazan Federal University, Kazan, Russian Federation, 2Kazan State Medical University, Kazan, Russian Federation

P099-F | Genome-wide screening of polymorphisms of microRNAs identifies a variant in the mir-3183 newly associated with type-2 diabetes risk in a high cardiovascular risk Mediterranean population: Modulation by fat intake
Oscar Coltell1, Eva M. Asensio2, Rocío Barraquín2, Jose V. Sorlí2, Jose I. González2, Olga Portolés2, Carolina Ortega-Azorín2, Chao Q. Lai3, Jose M. Ordovás1, Dolores Corella2
1Universitat Jaume I-CIBER Fisiopatologia de la Obesidad y Nutrición, Castellon, Spain, 2University of Valencia-CIBER Fisiopatología de la Obesidad y Nutrición, Valencia, Spain, 3Jean Mayer-USDA Human Nutrition Research Center on Aging at Tufts University, Boston, USA

W7 | Obesity-CIBEROBN (P100-F to P125-F)

P100-F | Gender features of the degree of obesity among adolescents in the city and village
Emiliya Valeeva
Kazan Federal University, Institute of Fundamental Medicine and Biology, Kazan, Russian Federation

P101-F | Histological and immunohistochemical characterization of the inguinal scWAT depot in a model of diet-induced obese rats subjected to SG
Iranzu González-Borja1, Marina Martín1, Amaia Rodríguez2,3, Javier Gómez-Ambrosi2,3, Beatriz Ramírez2-3, Víctor Valentí, Rafael Moncada3,4, Javier A. Cienfuegos3,4, Gema Frühbeck2,3,5, Victoria Catalán2,3, Sara Becerril2,3, Maria Angela Burrell2
1Department of Histology and Pathology, Universidad de Navarra, IdiSNA, Pamplona, Spain, 2Metabolic Research Laboratory, Clínica Universidad de Navarra, IdiSNA, Pamplona, Spain, 3CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, 4Department of Surgery, Clínica Universidad de Navarra, IdiSNA, Pamplona, Spain, 5Department of Endocrinology and Nutrition, Universidad de Navarra, Pamplona, Spain
P102-F | Circulating miRNAs as predictive biomarkers of type 2 diabetes mellitus development: from the CORDIOPREV study
Antonio Camargo1,2,3,4, Rosa Jimenez-Lucena1,2,3,4, Juan F. Alcalá-Diaz1,2,3,4, Cristina Vals-Delgado1,2,3,4, Javier Lopez-Moreno1,2,3,4, Ana Leon-Acuña1,2,3,4, Antonio P. Arenas-Larriva1,2,3,4, Javier Delgado-Lista1,2,3,4, Pablo Pérez-Martínez1,2,3,4, Oriol A. Rangel-Zuñiga1,2,3,4, Jose Lopez-Miranda1,2,3,4
1CIBER Fisiopatologia de la Obesidad y la Nutricion (CIBEROBN), Cordoba, Spain, 2Lipids and Atherosclerosis Unit, Reina Sofia University Hospital, Cordoba, Spain, 3Maimonides Institute for Biomedical Research of Cordoba (IMIBIC), Cordoba, Spain, 4University of Cordoba, Cordoba, Spain

P103-F | Alpha cell function interacts with diet to modulate prediabetes and type 2 diabetes
Irene Roncero Ramos1,2,3,4, Rosa Jimenez-Lucena1,2,3,4, Javier Lopez-Moreno1,2,3,4, Juan F. Alcalá-Diaz1,2,3,4, Cristina Vals-Delgado1,2,3,4, Antonio P. Arenas-Larriva1,2,3,4, Oriol A. Rangel-Zuñiga1,2,3,4, Ana Leon-Acuña1,2,3,4, Javier Delgado-Lista1,2,3,4, Pablo Perez-Martínez1,2,3,4, Antonio Camargo1,2,3,4, Jose Lopez-Miranda1,2,3,4
1CIBER Fisiopatologia de la Obesidad y la Nutricion (CIBEROBN), Instituto de Salud Carlos III, Cordoba, Spain, 2Lipids and Atherosclerosis Unit, Reina Sofia University Hospital, Cordoba, Spain, 3Maimonides Institute for Biomedical Research of Cordoba (IMIBIC), Cordoba, Spain, 4University of Cordoba, Cordoba, Spain

P104-F | TWEAK/FN14 axis in obesity is regulated by a hypocaloric diet supplemented with EPA and/or α-lipoic acid
Xavier Escoté1, Ana Elsa Huerta1, Marta Fernadez-Galilea1, Elisa Félix-Soriano1, Neira Sainz1, J Alfredo Martinez1, María J. Moreno-Aliaga1
1Centro De Investigación En Nutrición. Universidad De Navarra, Pamplona, Spain

P105-F | The misclassification regarding the diagnosis of overweight and obesity by using BMI deprives migraineurs of therapeutic strategies
Sonia Romero1, Ane Mínguez-Olaondo2, José Miguel Laínez3, Eduardo A. Martínez-Vila2, Gema Frühbeck1, Pablo Irimia2
1Endocrinology, Clínica Universidad de Navarra, CIBER Fisiopatología De La Obesidad Y Nutrición (CIBEROBN), ISCIII, Spain, Pamplona, Spain, 2Department of Neurology, Clínica Universidad de Navarra, Pamplona, Spain, 3Neurology, Hospital Clínico Universitario de Valencia, Valencia, Spain

P106-F | A score of traditional and novel lifestyles for optimal blood pressure
Jesús Díaz-Gutiérrez1, Liz Ruiz-Estigarribia1, Maira Bes-Rastrollo1,2,3, Miguel Ruiz-Canela1,2,3, Alfredo Gea1,2,3, Miguel Ángel Martínez-González1,2,3,4
1Department Of Preventive Medicine And Public Health, School Of Medicine, University Of Navarra, Pamplona, Spain, 2IDISNA Navarra’s Health Research Institute, Pamplona, Spain, 3Biomedical Research Network Center for Pathophysiology of Obesity and Nutrition (CIBEROBN), Carlos III Health Institute, Madrid, Spain, 4Department of Nutrition, Harvard TH Chan School of Public Health, Boston, United States
P107-F | Caloric restriction in rats fed a high-fat diet normalizes body weight and adiposity, but not glucose homeostasis
Marina Martín, Amaia Rodríguez, Javier Gómez-Ambrosi, Beatriz Ramírez, Sara Becerril, Miguel López, Carlos Diéguez, Gema Frühbeck, María A. Burrell
1Department of Histology and Pathology, Universidad de Navarra, IdiSNA, Pamplona, Spain, 2Metabolic Research Laboratory, Clínica Universidad de Navarra, IdiSNA, Pamplona, Spain, 3CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud, Carlos III, Madrid, Spain, 4Department of Physiology Universidad de Santiago de Compostela, Instituto de Investigación Sanitaria (CIMUS), Santiago de Compostela, Spain, 5Department of Endocrinology and Nutrition, Clínica Universidad de Navarra, IdiSNA, Pamplona, Spain

P108-F | Does metabolic syndrome cause hepatic damage? Study of the therapeutic effect of melatonin
1Department of Cell Biology and Morphology, University of Oviedo, Oviedo, España, 2Geriatric Service, Monte Naranco Hospital, Oviedo, España, 3Department for Cancer Stem Cells and Ageing, Barts Cancer Institute, Queen Mary University of London, London, England, 4Instituto de Investigación Sanitaria del Principado de Asturias (ISPA), Oviedo, España

P109-F | The effect of palmitic acid and DHA supplementation on DNA methylation of inflammatory genes in THP-1 macrophages
J. Alfredo Martínez, Mirian Samblas, Fermín I. Milagro
1Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Spain, 2Centre for Nutrition Research, University of Navarra, Pamplona, Spain, 3Biomedical Research Centre in Physiopathology of Obesity and Nutrition, CIBERobn, Madrid, Spain

P110-F | Leptin deficiency induces inflammation and endoplasmic reticulum stress in brain from ob/ob mice
Adrian Rubio-González, Yaiza Potes, Juan Carlos Bermejo-Millo, Luis Fernández-Calleja, Ivan Menéndez-Valle, Juan Jose Solano, Beatriz Caballero, Ana Coto-Montes, Ignacio Vega-Naredo
1Department of Cell Biology and Morphology, Faculty of Medicine, University of Oviedo, Oviedo, Spain, 2Instituto de Investigación Sanitaria del Principado de Asturias (ISPA), Oviedo, Spain, 3Geriatric Service, Monte Naranco Hospital, Oviedo, Spain

P111-F | Evolution of cardiometabolic risk parameters after a diet low in FODMAPs
Patricia Yárnoz Esquíroz, Aitziber Santiago Langarica, Neus Vila Rovira, Patricia Ibáñez Solano, María Ángeles Margall Coscojuela, Virginia Santesteban Moriones, Ramón Angós Musgo, Maite Betés Ibáñez, Cristina Carretero Ribón, Susana De la
Riva Onandía⁴, Maite Herráiz Bayod⁴, César Prieto de Frías⁴, Carlos Lacasa Arregui⁵, Camilo Silva Froján⁴
¹Clinical Nutrition Services, Clínica Universidad De Navarra, Pamplona, Spain, ²School of Medicine, Universidad de Navarra, Pamplona, Spain, ³Department of Endocrinology and Nutrition, Clínica Universidad de Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, ⁴Department of Gastroenterology, Clínica Universidad de Navarra, Pamplona, España, ⁵Pharmacy Services, Clínica Universidad de Navarra, Pamplona, España

P112-F | Impact of obesity in oncology patients with advanced stage tumour
Patricia Yárnoz Esquíroz¹, Carlos Lacasa Arregui², Camilo Silva Froján¹, María Riestra Vázquez¹, Claudia Urdangarin Fernández¹
¹Clinical Nutrition Services, Clínica Universidad De Navarra, Pamplona, Spain, ²Pharmacy Services, Clínica Universidad de Navarra, Pamplona, Spain, ³Department of Endocrinology and Nutrition, Clínica Universidad de Navarra, CIBEROBN, IdiSNA, Pamplona, Spain, ⁴Diets Services, Clínica Universidad de Navarra, Pamplona, Spain

P113-F | Gastric bypass and sleeve gastrectomy are equivalent in their effects on body mass index, fat mass and insulin resistance in diabetic and non diabetic morbid obese subjects
Javier Gargallo¹, Carolina María Perdomo¹, María Llaveró¹, Marta García¹, Sara Laguna¹, Javier Escalada¹,², Camilo Silva¹,², Víctor Valentí¹, Javier Gómez-Ambrosi¹,², Gema Frühbeck¹,², Javier Salvador¹,²
¹University Clinic of Navarra, Pamplona, Spain, ²Ciberobn, Spain

P114-F | Evaluation of the gender differences in the association of visceral fat content and metabolic complications of obesity in a cohort of 743 caucasian subjects
Manuel F Landecho¹, Patricia Sunsundegui¹, Virginia Santesteban¹, Óscar Beloqui¹, Inmaculada Colina¹, Marisol García-Unciti¹, Silvia Benito¹, Ana Arbeola¹, Gema Frühbeck², Marta Cuervo¹
¹General Health Check-up Unit, Internal Medicine Dpt. Clínica Universidad de Navarra., Pamplona, Spain, ²Department of Endocrinology and Nutrition, Clínica Universidad de Navarra, CIBEROBN, IdiSNA., Pamplona, Spain

P115-F | SWATH-MS proteomic analysis of subcutaneous adipose tissue from obese patients in response to bariatric surgery-induced weight loss
Rocío Guzmán-Ruíz¹, Julia Sanchez-Áninos¹², BC Townsend¹, Carmen Tercero Alcazar¹, Jaime López-Alcalá¹,², Ignacio Ortea¹, DA. Cano³, JL. Pereira-Cunill³, PP García-Luna³, MM Malagón¹,²
¹Dept. Cell Biology, Physiology, and Immunology, Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC)/University of Córdoba (UCO)/Reina Sofia University Hospital (HURS), Córdoba, Spain, ²CIBER Fisiopatología de la Obesidad y Nutrición (CIBERObn), ISCIII, Córdoba, Spain, ³Proteomics Unit, IMIBIC, Córdoba, Spain, ¹Unidad de Gestión de Endocrinología y Nutrición. Instituto de Biomedicina de Sevilla (IBiS), Consejo Superior de Investigaciones Científicas, Universidad de Sevilla. Hospital Universitario Virgen del Rocío, Sevilla, Spain
P116-F | Kininogen pathway is involved in fat tissue plasticity
Marion Peyrou1, Aleix Gavaldà-Navarro1, Rubén Cereijo1, Marta Giralt1, Francesc Villarroya1
1Dpt of Biochemistry and Molecular Biomedicine, University of Barcelona, Barcelona, Spain

P117-F | Cold exposure affects hypothalamic expression of molecular satiety and leptin signalling-related genes in an age dependent manner
Barbara Reynés1,2,4, Marlou Klein Hazebroek4, Estefanía García-Ruiz1,2, Jaap Keijer4, Paula Oliver1,2,3, Andreu Palou1,2,3
1Laboratory of Molecular Biology, Nutrition and Biotechnology (LBNB), Universitat de les Illes Balears, Palma, Spain, 2CIBER de Fisiopatología de la Obesidad y Nutrición (CIBERobn), Palma, Spain, 3Institut d’Investigació Sanitaria Illes Balears (IdISBa), Palma, Spain, 4Human and Animal Physiology, Wageningen University, Wageningen, The Netherlands

P118-F | Circulating endothelial cells and endothelial progenitor cells as possible novel biomarkers for cardiovascular risk assessment: PREDIMED-PLUS Study
Rosa Casas1,2, Ana Mª Ruiz-León1, Sara Castro-Barquero1, Mónica Domenech1, Montserrat Fitó1,2, Jordi Salas-Salvadó1,2, Ramon Estruch1,2
1Department of Internal Medicine, Hospital Clínic, Institut d’Investigació Biomèdica August Pi i Sunyer, Universitat de Barcelona, Barcelona, Spain, 2CIBER de Fisiopatología de la Obesidad y la Nutrición (CIBERobn), Instituto de Salud Carlos III, Madrid, España, 3Cardiovascular Risk and Nutrition and REGICOR research group, Hospital del Mar Medical Research Institute (IMIM), Barcelona, España, 4Human Nutrition Department, University Rovira i Virgili, Reus, España

P119-F | Lipid fingerprint of the adipose tissue in obesity and insulin resistance
Alejandro Fernández-Vega1,2, Eduardo Chicano-Gálvez3, Boone M. Prentice7,8, Feliciano Priego-Capote1, María Asunció López Bascón4, Mónica Calderón-Santiago4, Manuel Tena-Sempere1,2, José López-Miranda2,5, Rocío Guzmán-Ruiz1,2, Richard M. Caprioli7,8, MM. Malagón1,2
1Dept. Cell Biology, Physiology, and Immunology, IMIBIC/University of Cordoba (UCO)/Reina Sofia University Hospital (HURS), Cordoba, Spain, 2CIBER Physiopathology of Obesity and Nutrition (CIBERobn), ISCIII, Spain, 3Proteomics Unit, IMIBIC/UCO/HURS, Cordoba, Spain, 4Department of Analytical Chemistry, IMIBIC/UCO/HURS, Cordoba, Spain, 5UGC General and Digestive Surgery, IMIBIC/HURS, Cordoba, Spain, 4Lipids and Atherosclerosis Unit, IMIBIC/HURS/UCO, Cordoba, Spain, 7Mass Spectrometry Research Center, Vanderbilt University, 465 21st Ave S #9160, Nashville, USA, 8Department of Biochemistry, Vanderbilt University, 607 Light Hall, Nashville, USA
P120-F | Moringa oleifera, a sustainable alternative: A review on their nutritional and medicinal potential
Jacqueline Álvarez-Pérez1,2, Almudena Sánchez-Villegas1,2, Judith Pérez-Cabrera1, Fátima Díaz-Collado1,2, Romualdo Bentor García-Guerra1, Lluís Serra-Majem1,2
1Instituto Universitario de Investigaciones Biomédicas y Sanitarias de la Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain, 2Centro de Investigación Biomédica en Red, CIBEROBN, Madrid, Spain

P121-F | Maternal polyunsaturated fatty acids dietary supplementation improves obstetrical outcome
“Panait Sarbu” Clinical Obstetrics Gynecology Hospital “Carol Davila” University of Medicine and Pharmacy Romania1, Bogdana Virgolici2, Maria Mohora2, Claudia Mehedinti1, Costin Berceanu1, Elvira Bratila1
1“Carol Davila” University Of Medicine And Pharmacy, “prof.dr. Panait Sarbu” Clinical Obstetrics Gynecology Hospital, Bucharest, Romania, 2“Carol Davila” University of Medicine and Pharmacy, Department of Biochemistry, Bucharest, Romania, “Carol Davila” University of Medicine and Pharmacy, Department of Obstetrics and Gynecology, “Nicole Malaxa” Clinical Emergency Hospital, Bucharest, Romania, Craiova University of Medicine and Pharmacy, Department of Obstetrics and Gynecology, Craiova County Hospital, Craiova, Romania

P122-F | Micronutrient intake adequacy and mortality risk in the PREDIMED study
I Falcón-García1, A Ortiz-Andrellucchi1,2, J Álvarez-Pérez1,2, R Estruch2, MA Martínez-González2, D Corella2, J Salas-Salvadó2, M Fito2, H Schroder2, E Toledo2, RM Lamuela-Raventós2, E Ros2, F Arós2, M Fiol2, J Lapetra2, MA Muñoz2, E Gómez-Gracia2, J Tur2, X Pintó2, V Ruiz-Gutiérrez2, MP Portillo-Baquedano2, L Serra-Majem1,2, PREDIMED Study Investigators
1Research Institute of Biomedical and Health Sciences Department of Clinical Sciences, University of Las Palmas de Gran Canaria, Las Palmas. Canary Islands, Spain, 2Ciber Obn Physiopathology of Obesity and Nutrition, Institute of Health “Carlos III”, Madrid, Spain

P123-F | Association between dairy foods consumption and total and cardiovascular mortality in the PREDIMED study
A Ortiz-Andrellucchi1,2, A Sánchez-Villegas1,2, P Henríquez-Sánchez1,2, R Estruch2, MA Martínez-González2, D Corella2, J Salas-Salvadó2, M Fito2, H Schroder2, E Toledo2, RM Lamuela-Raventós2, E Ros2, F Arós2, M Fiol2, J Lapetra2, MA Muñoz2, E Gómez-Gracia2, J Tur2, X Pintó2, V Ruiz-Gutiérrez2, MP Portillo-Baquedano2, Lluís Serra-Majem1,2, PREDIMED Study Investigators
1Research Institute of Biomedical and Health Sciences Department of Clinical Sciences, University of Las Palmas de Gran Canaria, Las Palmas. Canary Islands, Spain, 2Ciber Obn Physiopathology of Obesity and Nutrition, Institute of Health “Carlos III”, Madrid, Spain
P124-F | The A-Body-Shape-Index and Type 2 Diabetes are Mutually Independent Predictors of Cardiovascular Events Risk in Angiographed Coronary Patients
Alexander Vonbank\textsuperscript{1,2,3}, Christoph H. Saely\textsuperscript{1,2,3,4,}, Christina Lins\textsuperscript{5}, Daniela Zanolin\textsuperscript{1}, Andreas Leiherer\textsuperscript{1,3}, Arthur Mader\textsuperscript{1,2,3}, Barbara Larcher\textsuperscript{1,2,3}, Axel Muendlein\textsuperscript{1,3}, Heinz Drexel\textsuperscript{1,3,4,6}
\textsuperscript{1}Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, \textsuperscript{2}Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria, \textsuperscript{3}Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, \textsuperscript{4}Division of Angiology, Swiss Cardiovascular Center, Berne, Switzerland, \textsuperscript{5}Kantonsspital St. Gallen, St. Gallen, Switzerland, \textsuperscript{6}Drexel University College of Medicine, Philadelphia, United States

P125-F | Visceral Adiposity is a Significantly Stronger Predictor of Diabetes Incidence in Men than in Women
Arthur Mader\textsuperscript{1,2,3}
\textsuperscript{1}Vorarlberg Institute for Vascular Investigation and Treatment (VIVIT), Feldkirch, Austria, \textsuperscript{2}Private University of the Principality of Liechtenstein, Triesen, Liechtenstein, \textsuperscript{3}Department of Medicine I, Academic Teaching Hospital Feldkirch, Feldkirch, Austria,

W9 | Miscellaneous Medical Topics (P126-F to P142-F)

P126-F | Tension-type headache with myogenic component in adolescents treated by non-pharmacological method
Oleg Esin\textsuperscript{1}, Radiy Esin\textsuperscript{1,2}, Rezeda Shamsutdinova\textsuperscript{1}, Elena Gorobets\textsuperscript{1}, Rimma Gamirova\textsuperscript{1,2}
\textsuperscript{1}Kazan (Volga region) Federal University, Kazan, Russian Federation, \textsuperscript{2}Kazan State Medical Academy, Kazan, Russian Federation

P127-F | Exploring semantic analysis of biomedical texts for identification of drugs with similar therapeutic effects
Ramil Nugmanov\textsuperscript{1}, Elena Tutubalina\textsuperscript{1}, Zulfát Miftahutdinov\textsuperscript{1}, Timur Madzhidov\textsuperscript{1}, S Nikolenko\textsuperscript{1}, Ilseyar Alimova\textsuperscript{1}, Alex Tropsha\textsuperscript{1,3}
\textsuperscript{1}Kazan Federal University, Kazan, Russian Federation, \textsuperscript{2}Department of V. A. Steklov Institute of Mathematics, Russian Academy of Sciences, St. Petersburg, Russian Federation, \textsuperscript{3}University of North Carolina, Chapel Hill, USA

P128-F | Detecting Adverse Drug Reactions from User Reviews with Machine Learning
Ramil Nugmanov\textsuperscript{1}, Ilseyar Alimova\textsuperscript{1}, Elena Tutubalina\textsuperscript{1}
\textsuperscript{1}Kazan Federal University, Kazan, Russian Federation

P129-F | Assessing the quality of newly formed bone tissue using scanning electron microscopy
A Khairutdinova\textsuperscript{1}, I Khafizov\textsuperscript{1}, Y Osin\textsuperscript{1}, A Rizvanov\textsuperscript{1}, Irshad Sharafutdinov\textsuperscript{1}, R Khafizov\textsuperscript{1}
\textsuperscript{1}Kazan Federal University, Kazan, Russian Federation
P130-F | Different performance of mating behavior in white mutant of Drosophila during the aging
Victoria Kostenko¹, Irshad Sharafutdinov¹, A.G. Porfiriev¹
¹Kazan Federal University, Kazan, Russian Federation

P131-F | Acrolein detection by in vivo synthetic chemistry: unexplored reactivity of acrolein with azide
Ambara Pradipta², Elena Saigitbatalova¹, Almira Kurbangalieva², Katsunori Tanaka¹,²
¹Biofunctional Chemistry Laboratory, A. Butlerov Institute of Chemistry, Kazan Federal University, 18 Kremlyovskaya street, Kazan 420008, Russian Federation, ²Biofunctional Synthetic Chemistry Laboratory, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan

P132-F | Therapeutic in vivo synthetic chemistry: Exploring on opportunity to activate drugs at specific sites in the body
Kazuki Tsubokura², Kenward Vong², Regina Sibhatullina¹, Almira Kurbangalieva¹, Katsunori Tanaka¹,²
¹Biofunctional Chemistry Laboratory, A. Butlerov Institute of Chemistry, Kazan Federal University, 18 Kremlyovskaya street, Kazan 420008, Russian Federation, ²Biofunctional Synthetic Chemistry Laboratory, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan

P133-F | Development of a panel of pancreatic cancer cell lines expressing doxycycline inducible spCas9
Vera Skripova¹, Alsina Nurgalieva¹, Igor Astsaturov¹,², Ramziya Kiyamova¹
¹Kazan Federal University, Kazan, Russian Federation, ²Fox Chase Cancer Center, Philadelphia, United States of America

P134-F | The effect of small molecule compounds Physcion and PFI-3 on the sensitivity of the tumor cell lines SCC61 and AcPC-1 to cisplatin
Daria Savenkova, Leysan Minigulova¹, Kristina Havrysh¹, Vera Skripova², Ilya Serebriiskii¹,², Ramziya Kiyamova¹
¹Kazan Federal University, Kazan, Russian Federation, ²Fox Chase Cancer Center, Philadelphia, United States of America

P135-F | Adaptation of Acholeplasma laidlawii to adverse environments as well as antibiotics is accompanied by multiple genome mutations, transfer of mutant genes through extracellular vesicles and mutagenicity to human cells
Elena Medvedeva¹,², Dilyara Khusnutdinova², Natalia Baranova¹,², Tatiana Malygina¹, Mohamed Dramchini², Alexey Mouzykantov¹,², Marina Davydova¹, Olga Chernova¹,², Vladislav Chernov¹,²
¹KIBB – Subdivision of FIC KazanSC of RAS, Kazan, Russian Federation, ²Kazan (Volga Region) Federal University, Kazan, Russian Federation
“Precision medicine for healthy ageing”

P136-F | Influence of ultraviolet irradiation and ADSCs on the regenerative properties of the skin
Galina Masgutova1, V Syromiatnikova1, Marina Gomzikova1, A Mullakhmetova1, Ruslan Masgutov1, A Rizvanov1
1Kazan (Volga Region) Federal University, Kazan, Russian Federation

P137-F | Specificity of microvesicles interactions with target cells
Marina Gomzikova1, Sevindzh Kletukhina1, Sirina Kurbangaleeva1, Olga Neustroeva1, Albert Rizvanov1
1Kazan (Volga Region) Federal University, Kazan, Russian Federation

P138-F | Biodistribution of membrane vesicles in vivo
Marina Gomzikova1, Olga Neustroeva1, Sevindzh Kletukhina1, Sirina Kurbangaleeva1, Mr. Mikhail Mavlikeev1, Albert Rizvanov1
1Kazan (Volga Region) Federal University, Kazan, Russian Federation

P139-F | Modelling reflex arc for a memristive implementation
Maxim Talanov2, Igor Lavrov1,2, Victor Erokhin1,3
1Kazan Federal University, Kazan, Russian Federation, 2Mayo Clinic, Rochester, USA, 3Institute of Materials for Electronics and Magnetism, Italian National Council of Research, Parma, Italy

P140-F | Bio-plausible model of electronic memristive neuron
Maxim Talanov2, Evgeniy Zykov1, Igor Lavrov1,2, Victor Erokhin1,3
1Kazan Federal University, Kazan, Russian Federation, 2Mayo Clinic, Rochester, USA, 3Institute of Materials for Electronics and Magnetism, Italian National Council of Research, Parma, Italy

P141-F | Computational modelling of spinal locomotor circuitry
Max Talanov2, Igor Lavrov1,2, Constantine Menshenin1
1Kazan Federal University, Kazan, Russian Federation, 2Mayo Clinic, Rochester, USA

P142-F | Virtual Reality-Based Immersive Simulation for Invasive Surgery Training
Vlada Kugurakova1, Vitaly Abramov1, Rumia Sultanova1, Ilya Tsivilskiy2, Maxim Talanov2
1Kazan Federal University, Kazan, Russia, 2Kazan National Research Technical University named after A. N. Tupolev - KAI, Kazan, Russia
General information

Airport

The Barcelona International Airport is located 12 km south-west of Barcelona. There are two airport terminals: Terminal T1 is the main terminal, whilst the second, Terminal T2, serves mainly low-cost carriers. The C-31 is the main road directly connecting the airport with the city. The approximate journey time from airport to city centre is 20/25 minutes depending on traffic. The airport telephone number is 902 404 704.

Arrival from the airport

There is a variety of public transport options for going to or from the airport. However, they vary widely in convenience, efficiency and schedule, so plan your trip accordingly. In particular, if you have a very early or very late flight your options are more limited. From the airport, you can reach the city centre either by taxi or public transport (metro, bus, train).

By taxi: You can find taxi points in front of both terminals T1 and T2. The transfer by taxi from the airport to the city takes approximately 20/25 minutes depending on traffic. The cost is between 25€–30€ depending on the time of day.

By train: The railway network line R2 Nord connects Terminal T2 with the Central Railway Station (‘Barcelona-Sants’) where the hotel venue is located. There is a complimentary shuttle bus from Terminal T1 to Terminal T2. The train operates every 30 minutes, approximately from 6.00 to 23.00 h. The travel time is 32 minutes. A single ticket (4,10€) can be used for the entire trip.

By bus: The Aerobus (express bus service) connects Terminal T1 (Aerobus A1) and Terminal T2 (Aerobus A2) with the city in approx. 30 minutes, 365 days a year, from approx. 5.00 to 24.00h. The Aerobus A1 operates every 5/10 min. and the Aerobus A2 every 10/20 min. Aerobus tickets cost 5,90€ one way and 10,20€ round trip.

By metro: Metro Line L9 Sud connects Barcelona International Airport with the Barcelona metro network. The nearest subway station to the hotel venue is ‘Sants Estació’, subway line 3 and line 5. A special ticket (4,50€) must be purchased to leave the airport and use the metro network.

Badges

At the congress, a name badge will be provided on-site with your registration documents. Participants are requested to wear their badge at all times inside the hotel venue and at all social events organised within the context of the Congress. If your badge is lost, a new badge will be issued.
Book of Abstracts

Abstracts are included in a special issue of the European Journal of Clinical Investigation (EJCI) which is included in the congress bag.

Certificate of attendance

A certificate of attendance will be sent to all participants, by the Technical Secretariat, via e-mail after the congress.

Congress venue

The 52nd ESCI Congress takes place in the Hotel Barceló Sants in Barcelona, located on top of the Central Railway Station, called ‘Barcelona-Sants’ station.

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Pl. dels Països Catalans
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Tel. +34 935 03 53 00

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Password: ESCI2018

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Exhibition

An exhibition of related products, services and technologies is being held concurrently with the congress. The exhibition will be located in room MR09 (first floor) and in the hall located in the same floor.

Exhibition area opening hours:
Wednesday, 30 May 10.00-20.00
Thursday, 31 May 10.00-19.00
Friday, 1 June 10.00-17.00

Meeting rooms

There will be 1 opening lecture, 2 plenary sessions and 7 simultaneous workshops that will count with invited talks and short oral presentations. Abstracts accepted as poster will be displayed in the Exhibition and poster area (room MR09) and in the Orbital Shuttle hall located in the same floor.

Opening and Plenary sessions Room MR10+11
Workshop 1 (Phagocyte) Room MR07+08 (All days)
Workshop 2 (Mitochondria) Room MR14 (Wednesday)
Workshop 2 (Mitochondria) Room MR05+06 (Thursday and Friday)
Workshop 3 (Cardiology) Room MR10+11 (All days)
Workshop 6 (Nutrition) Room MR14 (Friday)
Workshop 7 (Obesity) Room MR12+13 (Thursday and Friday)

Joint Sessions:
Workshop 2/4 (Mitochondria & Hepato) Room MR05+06 (Friday)
Workshop 4/7 (Obesity & Hepato) Room MR12+13 (Thursday and Friday)
Workshop 5/7 (Obesity & Omics) Room MR12+13 (Wednesday)

Speakers ready room Room MR15
Exhibition and poster areas Room MR09 and Orbital Shuttle hall
Public transportation passes

Multiple public transportation passes can be bought in all metro stations. Passes can be used for both the metro and bus network. The most popular pass is the ten-ride card, called T-10. With a T-10 card you may use several subway lines or buses if less than 1h15m have passed since you went through the turnstile. The current price for a single ride ticket is 2,20 € and 10,20 € for a T-10 card.

Barcelona travel cards (Hola BCN!): These cards allow unlimited journeys on Barcelona public transport over 2, 3, 4 or 5 consecutive days on a single ticket. They also include subway journeys between the airport and the city centre. More info www.tmb.cat/en

Metro network opening hours:
Monday to Thursday 05.00-24.00
Friday 05.00-02.00
Saturday 24 hours
Sunday 05.00-23.00

Registration

Registrations have been managed by Bco Congresos. The registration desk is located in the first floor of the venue. Your name badge will be given to you in the registration desk. Name badge is always required in the venue. The certificate of attendance will be sent to all delegates by email after the congress.
Registration fee includes: Scientific sessions, posters, exhibition area, final program, book of abstracts, coffees during breaks and lunch on Thursday and Friday.

Registration desk opening hours:
Wednesday, 30 May 07.30-19.00
Thursday, 31 May 08.00-18.00
Friday, 1 June 08.00-18.00

Social and Networking Activity

The congress social activity will take place on Thursday, 31 May, at 20.30 h in Restaurant ‘La Barca del Salamanca’ located in address Moll de Gregal 17, Port Olímpic de Barcelona, 08005 Barcelona (Tel. +34 932 21 18 37). There will be bus transportation from the hotel venue (Hotel Barceló Sants) at 19:45 hours (meeting point in hotel lobby) and return to the same place after dinner. Admission: Tickets were available during the registration process. Tickets available on-site in a limited number. For those accommodated in other parts of the city, please note that the nearest subway station is ‘Ciutadella|Vila Olimpica’, subway line 4 (yellow). Subway closes at 24.00 h.
**Miscellanea**

**Banks-exchange:** Open from Monday to Friday 8.15-14.00 h.

**Credit cards:** Major credit cards are accepted in hotels, restaurants, shops, taxis, ...

**Currency:** Euro ( € ).

**Electricity:** 220 volts and 50 Hz. European system of round pins with two holes.

**Emergency** tel. number : 112

**Lost and found:** Registration desk in the venue.

**Safety:** Barcelona is a safe city, however pickpockets may be around the airport, train and underground stations, touristic areas. Do not leave your valuables unattended.

**Shopping** hours: Monday to Saturday 10.00-20.00 h.

**Taxi:** Barcelona taxis are black and yellow and show a green light when available. They charge the amount indicated on the meter. Phone: +34 933 222 222 (24h service) or book online: www.barnataxi.com

**VAT (value added tax):** Official VAT is charged in all prices and rates. Neither the Organization nor Bco Congresos accepts responsibility due to an official increase of VAT.

**Weather in May in Barcelona:** Average maximum temperature 24° C, average minimum temperature: 14° C.
“Precision medicine for healthy ageing”
**Barceló Sants**

**Level E**

- North Shuttle: 290 m²
- MR.05: 103 m²
- MR.06: 102 m²
- MR.07: 107 m²
- MR.08: 108 m²
- MR.09: 358 m²
- MR.10: 373 m²
- MR.11: 306 m²
- Orbital Shuttle: 124 m²
- MR.12: 96.3 m²
- MR.13: 63 m²
- MR.14: 125.5 m²

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**Sants Orbital Station**

Hotel Barceló Sants
Pl. dels Països Catalans s/n
08014 Barcelona
T: (+34) 93 503 53 00
F: (+34) 93 490 60 45
sants@barcelo.com
BarceloSants.com
41.22° 45.49° N 2° 8’ 23.84” E
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Cerveza y SALUD

Silver sponsors

Novo Nordisk®

Exhibitors

PronoKal Group®

EDITORIAL MEDICA PANAMERICANA
Workshop supporters

W1 | Phagocyte biology

W2 | Mitochondria, ageing and disease

W3 | Cardiology

W6 | Precision nutrition

W7 | Obesity

“Precision medicine for healthy ageing”
Satellite Symposium

Fermented Beverages and Cardiovascular Health Symposium

Wednesday, 30 May, 11:00-12:30
ESCI 2018 Congress venue (Hotel Barceló Sants, Barcelona, Spain)
Meeting room MR07+08
Complimentary and included in all ESCI Congress registration fees.

Programme

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<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:00-11:30</td>
<td>Prof. Dr. Lina Badimon, Director of the Cardiovascular Program</td>
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<td>ICCC - Institut de Recerca, IIB Sant Pau, Hospital de la Santa Creu i Sant Pau, CIBERCV-ISCIII, Barcelona, Spain</td>
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<td></td>
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<td>“Effects of fermented beverages’ moderate consumption in cardiovascular disease”</td>
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<tr>
<td>11:30-12:00</td>
<td>Prof. Dr. Gema Frühbeck, Head of the Metabolic Research Laboratory, Co-Director of the Obesity Area, Dept. of Endocrinology and Nutrition, Universidad de Navarra Clinic, IdiSNA, CIBEROBN, Pamplona, Spain</td>
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<td>“Need for a paradigm shift in weight management”</td>
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<td>12:00-12:30</td>
<td>Dr. Ramón Estruch, Internal Medicine Senior Consultant, Hospital Clinic of Barcelona, Spain</td>
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<td>“The impact of the Mediterranean Diet on cardiovascular health”</td>
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Notes