2nd EURO GEROSCIENCE CONFERENCE

Toulouse 2022 - FRANCE

March 24-25, 2022
Hôtel Dieu
SESSION 1: What can the biology of aging offer Geroscience?

8:00 a.m
Session Chair:

**Gerotherapeutic potential of targeting proteostasis**
Ana Maria Cuervo, Einstein Institute for Aging Research, Albert Einstein College of Medicine, Bronx, NY (USA)

8:30 a.m
Linda Partridge, Partridge Lab, University College London, London (UK)

8:50 a.m
Understanding and modeling aging and age-related diseases
Anne Brunet, Stanford University, Stanford, CA (USA)

9:10 a.m
Oral communications

9:10 a.m
OC1 Exploiting Metabolic Reprogramming in Cellular Senescence as a Therapeutic Target
José Américo Nabuco L F De Freitas 1, Khaled Tighanimine 1, Yvan Nemazany 2, Yara Bou Saada 1, Delphine Benarroch-Popivker 1, Aaron Mendez-Bermudez 3, Stefano Fumagalli 2, Bertrand Friguet 1, Eric Gilson 1, Mario Pende 4, Oliver Bischof 4
1 Sorbonne Université, CNRS, Inserm, Institut De Biologie Paris-Seine, Biological Adaptation And Ageing, B2a-Ibps - Paris (France), 2Institut Necker-Enfants Malades, Université Paris Descartes, Sorbonne Paris Cité - Paris (France), 3School Of Medicine, CNRS, Inserm, Ircan, Université Côte D’azur - Nice (France), 4CNRS Délégation Ile De France - Villejuif (France)

9:20 a.m
OC2 TIME-Seq enables inexpensive and scalable epigenetic age predictions for large studies in mice and humans
Patrick Griffin 1, Alice Kane 1, Alexandre Trapp 2, Jien Li 1, Maeve Mcnamara 1, Margarita Meer 3, Michael Macarthur 4, Sarah Mitchell 4, Amber Mueller 1, Colleen Carmody 1, Daniel Vera 1, Csaba Kerepesi 2, Nicole Noren Hooten 3, James Mitchell 4, Michele Evans 5, Vadim Gladyshev 1, David Sinclair 1
1 Blavatnik Institute, Dept. Of Genetics, Paul F. Glenn Center For Biology Of Aging Research At Harvard Medical School - Boston (United States), 2Brigham And Women’s Hospital, Division Of Genetics, Department Of Medicine, Harvard Medical School - Boston (United States), 3Yale University School Of Medicine, Department Of Pathology - New Haven (United States), 4Department Of Health Sciences And Technology, Eth Zurich - Zurich (Switzerland), 5Laboratory Of Epidemiology And Population Science, National Institute On Aging, National Institutes Of Health - Bethesda (United States)

9:30 a.m
OC3 A single short reprogramming early in life improves fitness and increases lifespan in old age
Quentin Alle 1, Enora Le Borgne 1, Paul Bensadoun 1, Camille Leremy 5, Nelly Bechir 5, Melissa Gabanou 2, Fanny Estermann 1, Christelle Bertrand-Gaday 1, Laurence Pesmesesse 3, Karine Toupet 1, Jerome Vialaret 1, Christophe Hirtz 6, Daniele Noel 6, Christian Jørgensen 7, Francois Casas 7, Ollivier Milhavet 1, Jean-Marc Lemaître 1
1 Inserm/Irmb - Montpellier (France), 2UM/Irmb - Montpellier (France), 3Metamus/Inrae - Montpellier (France), 4Cell France/Irmb - Montpellier (France), 5Ppc/Chu - Montpellier (France), 6Ppc/Um - Fort Worth (United States)

9:40 a.m
OC4 Novel approaches for single-cell and cost-effective epigenetic age profiling
Alexandre Trapp 1, Csaba Kerepesi 1, Vadim Gladyshev 1
1 Harvard Medical School - Boston (United States)
SESSION 2: What can Geroscience offer to the biology of aging?

Session Chair: James L. Kirkland, Mayo Clinic, Rochester, MN (USA)

Laura Niedernhofer, University of Minnesota, Minneapolis, MN (USA)

Brian Kennedy, University of Singapore (Singapore)

11:30 a.m

Oral communications

OC5 Necroptosis Inhibition counteracts axonal degeneration, cognitive decline and key hallmarks of aging, promoting brain rejuvenation
Macarena Arrázola 1, 2, Matías Lira 1, Gabriel Quiroz 2, Somya Iqbal 4, Rachel A. Kline 4, Waldo Cerpa 3, Thomas M. Wishart 4, 5, Felipe Court 1, 2, 6
1 Center For Integrative Biology, Universidad Mayor - Santiago (Chile), 2 Geroscience Center for Brain Health and Metabolism (GERO) - Santiago (Chile), 3 Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, - Santiago (Chile), 4 The Roslin Institute, University of Edinburgh - Edinburgh (United Kingdom), 5 Centro de Excelencia en Biomedicina de Magallanes (CEBIMA), Universidad de Magallanes, - Punta Arenas (Chile), 6 Buck Institute for Research on Aging, - Novato, CA (United States)

11:40 a.m

OC6 Single-Cell Analysis reveals senescent cells clusters associated to optimal muscle regeneration
Cheng Chen 1, Coralie Cazin 1, Jeremy Chantel 1, Sebastien Melia 1, Aurelie Chiche 1, Han Li 1
1 Institut Pasteur - Paris (France)

11:50 a.m

OC7 Short senolytic or senostatic interventions rescue progression of radiation-induced frailty and premature ageing in mice
Edward Fielder 1, Satomi Miwa 1, Thomas Von Zglinicki 1
1 Newcastle University - Newcastle Upon Tyne (United Kingdom)

12:00 p.m

OC8 Selective targeting of senescent cell mitochondria by mitochondrial uncouplers enhances specificity and sensitivity of senolytics
Satomi Miwa 1, Edward Fielder 1, Abbas Ishaq 1, Thomas Von Zglinicki 1
1 Newcastle University - Newcastle Upon Tyne (United Kingdom)

12.10 p.m

Lunch and poster sessions

1.10 p.m

ROUNDTABLE 1: Molecular, cellular and physiological hallmarks of aging
Guido Kroemer, Sorbonne University, Paris (France)
Luigi Ferrucci, National Institute of Aging, Baltimore, MD (USA)
Vadim Gladyshev, Brigham & Women's Hospital, Boston, MA (USA)
Rafael de Cabo, National Institute of Aging, Baltimore, MD (USA)

2.10 p.m

ROUNDTABLE 2: Regulatory framework for geroprotectors
Anna Lönnroth, European Commission, Brussels (Belgium)
Nir Barzilai, Albert Einstein College of Medicine, Bronx, NY (USA)
Alexander Fleming, Kinexum, Harpers Ferry, WV (USA)
William K. Smith, Uniformed Services University of Health Sciences, and University of South Carolina, SC (USA)

3.10 p.m

Coffee Break and poster sessions
3.40 p.m  SESSION 3: Involving new blood into geroscience

3.40 p.m  Session Chair: Jamie N. Justice, Wake Forest School of Medicine, Winston-Salem, NC (USA)

4.10 p.m  Benoît Lehallier, PhD, Director of Data Science, Alkahest, San Carlos, CA (USA)

4.30 p.m  Irene Martinez de Toda, Professor, Universidad Complutense de Madrid, Madrid (Spain)

4.50 p.m  Oral communications

4:50 p.m  OC9 The NAD+-mitophagy axis in ageing and Alzheimer’s disease and artificial intelligence-based drug development
Evandro Fei Fang University of Oslo And Akershus University Hospital - Oslo (Norway)

5:00 p.m  OC10 The effect of Methionine Restriction on endurance performance in mice
Charlotte G. Mann 1, Thomas Agius 2, Alban Longchamp 2, Michael R. Mac Arthur 1, Katrien De Bock 1, Sarah J. Mitchell 1
1Eidgenössische Technische Hochschule - Zürich (Switzerland), 2École Polytechnique Fédérale De Lausanne - Lausanne (Switzerland)

5:10 p.m  OC11 Metabolic implications on neuroinflammation in the pathological aging context. Dietary restriction, glial autophagy and metformin in Alzheimer’s disease
Juan Beauquis 1, Carlos Pomilio 1, Angeles Vinuesa 1, Amal Gregosa 1, Nicolas Gonzalez-Perez 1, Flavia E Saravia 1
1Conicet & Uba - Buenos Aires (Argentina)

5:20 p.m  OC12 Differences in blood-based inflammatory profile according to longitudinal intrinsic capacity trajectories in community-dwelling older adults
Wan-Hsuan Lu 1, Emmanuel Gonzalez-Bautista 1, Philippe De Souto Barreto 1
1Toulouse University Hospital (chu Toulouse) - Toulouse (France)
SESSION 4: New models in geroscience

Session Chair: Steven N. Austad, University of Alabama, Birmingham, AL (USA)

Dario Riccardo Valenzano, Leibniz Institute on Aging, FLI, Jena, (Germany)

Alex Zhavoronkov, Insilico Medicine, Hong Kong (Hong Kong)

Oral communications

9:10 a.m

OC13 Epigenetic clocks reveal reversible changes in biological age in response to stress
Jesse Pogonik 1, Vadim Gladyshev 1
1Brigham and Women’s Hospital, Harvard Medical School - Boston (United States)

9:20 a.m

OC14 Cryptic Nature-Phenomenal Animalesque Human Torpor: Forever-Young Inner Fountain-of-Youth?
Sébastien Murat 1
1Charles Sturt University - Bathurst (Australia)

9:30 a.m

OC15 Sexual identity of enterocytes regulates rapamycin-mediated intestinal homeostasis and lifespan extension
Yu-Xuan Lu 1, Jennifer C. Regan 1,2, Enric Ureña 1, Ralf Meilenbrock 1, James H. Catterson 2, Disna Kißler 1, Linda Partridge 1
1Max Planck Institute For Biology Of Ageing - Cologne (Germany), 2Institute Of Healthy Ageing, Department Of Genetics, Evolution And Environment, University College London - London (United Kingdom)

9:40 a.m

OC16 Exploring the Interplay of Sex, Immunity and Ageing using Drosophila melanogaster
Mary-Kate Corbally 1, Nahian Majlish 1, Chitarbanova-Rudloff Stanislava 2, Jenny Regan 1
1University Of Edinburgh - Edinburgh (United Kingdom), 2University of Alabama - Tuscaloosa, AL (United States)

Coffee Break and poster sessions

10:10 a.m

SESSION 5: Geroscience and Biotechs in Europe

Session Chair: Ann Beliën, Rejuvenate Biomed, Heusden-Zolder (Belgium)

Nichola Conlon, Nuchido, Newcastle (UK)

Peter L.J. de Keizer, Cleara Biotech B.V., Utrecht (The Netherlands)

Oral communications

11:20 a.m

OC17 Targeting cellular senescence with novel senotherapeutics by design to extend healthspan
Lei Zhang University of Minnesota - Minneapolis (United States)

OC18 Precise machine learning suggests that brain cells facing a neurodegenerative insult are the subject of molecular decompensation and aging
Lucile Mégret 1, Barbara Gris 1, Satish Sasidharan Nair 1, Jasmin Cevost 1, Mary Wertz 2, Jeff Aaronson 4, Jim Rosinski 4, Thomas F. Vogt 4, Hilary Wilkinson 2, Myriam Heiman 1, Christian Néri 1
1Sorbonne Université, Centre National de la Recherche Scientifique UMR 8256, INSERM ERL U1164, Brain-C Lab - Paris (France), 2Sorbonne Université, Centre National de la Recherche Scientifique, Laboratoire Jacques-Louis Lyons (LJLL-Paris (France), 3MIT, Broad Institute, Cambridge, MA (United States), 4CHDI Foundation, Princeton, NJ, (United States)

OC19 Development of transformative oral drugs to regenerate aging muscles
Stan Watowich Ridgeline Therapeutics - Houston (United States)

OC20 Longitudinal analysis of aging trajectories in big biomed data reveals progressive loss of resilience and predicts human lifespan limit
Peter Fedichev Gero.ai - Singapore (Singapore)
12.00 p.m  ROUNDTABLE 3: Funding and communication
Stephanie Lederman, American Federation for Aging Research, New York, NY (USA)
Mehmood Kahn, Life Biosciences, Boston, MA (USA)
Viviana Perez Montes, National Institute of Aging, Baltimore, MD (USA)

1.00 p.m  Lunch and poster sessions

2.00 p.m  ROUNDTABLE 4: Establishing research priorities
Felipe Sierra, Gerontopole, Toulouse University, Toulouse (France)
Linda Fried, Columbia University Medical Center, New York, NY (USA)
Matt Kaeberlein, Memory and Brain Wellness Center, Seattle, WA (USA)
Ronald A. Kohanski, National Institute on Aging, Baltimore, MD (USA)

3.00 p.m  SESSION 6: Designing clinical trials in Geroscience
Session Chair: Stephen Kritchevsky, Wake Forest School of Medicine, Winston-Salem, NC (USA)

3.00 p.m  Oral communications

3.30 p.m  John Newman, University of California at San Francisco (UCSF), San Francisco, CA (USA)

3.50 p.m  Joan Mannick, Life Biosciences, Boston, MA (USA)

4.10 p.m  Coffee Break and poster sessions

4.30 p.m  Oral communications

4:30 p.m  OCC1  Counteracting age-related VEGF signaling insufficiency promotes healthy aging and extends life span
Myriam Grunewald, The Hebrew University - Jerusalem (Israel)

4:40 p.m  OCC2  Nutrition as a tool to counteract inflammaging: results and challenges from the NU-AGE project
Aurelia Santoro 1, Claudio Franceschi 1
1University Of Bologna - Bologna (Italy)

4:50 p.m  OCC3  Lomecel-B as a Geroscience Therapeutic Candidate: Clinical Trial Results
Joshua Hare 1, Kevin Randas 1, Dan Gincel 1, Lisa Mcclain-Moss 1, Jorge Ruiz 1, Anthony Oliva 1
1Longeveron Inc. - Miami (United States), 2Bruce W. Carter Miami Vamc - Miami (United States)

5:00 p.m  OCC4  Exercise rejuvenates the skeletal muscle methylome and transcriptome in humans
Sarah Voisin 1, Macsue Jacques 1, Shanie Landen 1, Nicholas Harvey 2, Larisa Haupt 3, Lyn Griffiths 3, Kevin Ashton 2, Vernon Coffey 2, Jamie-Lee Thompson 2, Thomas Doering 4, Malene Lindholm 5, Ola Hansson 5, Olof Asplund 6, Sara Bloquiaux 7, Martine Thomis 7, Adam Sharples 8, Steve Horvath 9, Nir Eynon 10
1Victoria University - Melbourne (Australia), 2Bond University - Gold Coast (Australia), 3Queensland University Of Technology - Brisbane (Australia), 4Central Queensland University - Rockhampton (Australia), 5Stanford University - Stanford (United States), 6Lund University - Lund (Sweden), 7Ku Leuven - Leuven (Belgium), 8School Of Sport Sciences - Oslo (Norway), 9Ucla - Los Angeles (United States), 10Victoria University - Footscray (Australia)

5:10 p.m  END OF CONFERENCE
POSTER PRESENTATIONS

ARTIFICIAL INTELLIGENCE AND AGING

P1 New biomarkers for Alzheimer diagnosis and early detection of mild cognitive impairment
Aurora Román-Dominguez 1, Mar Dromant 1, Consuelo Borrás 1
1University Of Valencia - València (Spain)

P2 Technological development and clinical applicability of wearable devices for remote monitoring of older adults health: the Senior Mobile Health Platform
Álvaro Maciel 1, Eujessika Silva 1, Daniella Carvalho 1, Paulo Barbosa 2
1Universidade Federal Do Rio Grande Do Norte - Natal (Brazil), 2Universidade Estadual Da Paraiba - Campina Grande (Brazil)

P3 Heart rate variability remote monitoring using wearable devices
Álvaro Maciel 1, Eujessika Silva 1, Jose Marmol 2, Jose Bullejos 2, Paulo Barbosa 3
1Universidade Federal Do Rio Grande Do Norte - Natal (Brazil), 2Universidade De Granada - Granada (Spain), 3Universidade Estadual Da Paraiba - Campina Grande (Brazil)

P4 A Multi-Tissue Meta-Analysis of Methylation Variability: Uncovering Robust Markers for Biological Ageing
Kirsten Seale 1, Namitha Mohandas 1, Nir Eynon 1, Sarah Voisin 1
1Victoria University - Melbourne (Australia)

P5 Infrared spectroscopy as a diagnostic tool for osteosarcopenic women
Ricardo Guerra 1, Rayssa Freitas 1, Daniel Freitas 1, Igor Oliveira 1, Gerlane Guerra 1, Gustavo Duque 2, Kassio Lima 1
1Federal University Of Rio Grande Do Norte - Natal (Brazil), 2University Of Melbourne - Melbourne (Australia)

P6 The discovery and characterization of a new premature aging disease
Daniela Bakula 1, Morten Scheibye-Knudsen 1
1Center For Healthy Aging, University of Copenhagen - Copenhagen (Denmark)

P7 Scallop: a novel computational method for the quantification of age-related increase in transcriptional noise at the single-cell level
Olga Ibáñez-Solé 1, Alex M. Ascensión 1, Marcos J. Araúzo-Bravo 1, Ander Izeta 1
1Biodonostia Health Research Institute - Donostia-San Sebastián (Spain)

CELLULAR SENESCENCE AND SENOLYTICS

P8 Using C. elegans for β-Gal staining in-vivo screening reveals endoribonuclease Regnase-1 as a suppressor of senescence
Collin Ewald, ETH Zurich - Schwerzenbach (Switzerland)

P9 Transcriptome analysis reveals senescence pathways driven by EGR1, DDX11L1 and miR454 associated with frailty
Ander Matheu 1, Ander Saenz-Antoñanas 1
1Biodonostia Institute - San Sebastian (Spain)

P10 Ribosome heterogeneity by rRNA methylation in skin cell senescence
Markus Schosserer, University of Natural Resources and Life Sciences, Vienna - Vienna (Austria)

P11 sEVs from young ADSCs improve healthspan and prevent frailty in old mice
Jorge Sanz-Ros 1, Cristina Mas-Bargues 1, Aurora Roman-Dominguez 1, Mar Dromant 1, Nekane Romero-Garcia 1, Jose Viña 1, Consuelo Borrás 1
1University Of Valencia - Valencia (Spain)

P12 Exploring the role of arginine-rich peptides and the nucleolus in ageing and neurodegeneration
Oleksandra Sirozh 1, Vanesa Lafarga 1, Oscar Fernández-Capetillo 1
1Cnio Spanish National Cancer Research Centre - Madrid (Spain)
POSTER PRESENTATIONS

CELLULAR SENESCENCE AND SENOLYTICS (continued)

P13  Relationship between sarcopenia and water cellular profile in community-dwelling older people: Results from PRO-EVA Study
  Álvaro Maciel 1, Sabrina Fernandes 1, Rafaela Gonçalves 1, Dimitri Guedes 1, Saionara Camara 1, Philippe Barreto 2
  1Universidade Federal Do Rio Grande Do Norte - Natal (Brazil), 2Gérontopôle De Toulouse - Toulouse (France)

P14  Endothelial-derived circulatory miR34 reinforces senescence in progeria
  Selma Osmanagic-Myers 1, Christina Manakanatas 2, Santhosh Kumar Ghadge 2, Roland Foisner 2, Viviane Fleischhacker 1, Eleonora Nardini 1
  1Institute of Medical Chemistry, Center For Pathobiology and Genetics, Medical University Of Vienna - Vienna (Austria), 2Max Perutz Labs, Center For Medical Biochemistry, Medical University Of Vienna - Vienna (Austria)

P15  Senescent Cells: Role in Countering Pulmonary Hypertension Development and Progression
  Emmanuelle Born 1, Marielle Breau 2, Larissa Lipskaia 1, Amal Houssaini 1, Delphine Beaulieu 1, Elisabeth Marcos 1, Rémi Pierre 3, Marcio Do Cruzeiro 3, Geneviève Dérumeaux 1, Dmitry Bulavin 4, Jesús Gil 5, David Bernard 6, Jean-Michel Flamand 6, Shariq Abid 1, Serge Adnot 1
  1Inserm U955 - Créteil (France), 2CRCM - Marseille (France), 3Inserm U1016 - Paris (France), 4CNRS - Nice (France), 5MRC - London (United Kingdom), 6UMR Inserm U1052/CNRS 5286 - Lyon (France)

P16  Glyoxal induces senescence in primary human keratinocytes through oxidative stress and activation of the AKT/FOXO3a/p27KIP1 signaling pathway
  Rym Halkoum 1, Virginie Salnot 3, Christophe Capallere 3, Christelle Plaza 1, Aurore L’honoré 4, Karl Pays 5, Bertrand Friguet 4, Carine Nizard 5, Isabelle Petropoulos 4
  1Sorbonne Université (biological Adaptation And Ageing, B2a-Ibps) And Lymh Recherche (life Science Department) - Paris (France), 2Ipcs Proteomic Facility, Université De Paris, Institut Cochin, Inserm, CNRS - Paris (France), 3Ashland, Global Skin Research Center, Advanced Skin Research & Bioengineering Dept - Sophia Antipolis (France), 4Sorbonne Université, Cnrs, Inserm, Institut De Biologie Paris-Seine, Biological Adaptation And Ageing, B2a-Ibps - Paris (France), 5Lvmh Recherche. Life Science Department - Saint-Jean-De-Braye (France)

P17  Using the p21-mTert bypassing senescence model to study the role of telomeres in age-related osteoarthritis
  Christina Fissoun 1, Margot Milano 1, Laura Braud 2, Marielle Breau 2, Yves-Marie Pers 1, Christian Jorgensen 1, Vincent Gell 2, Jean-Marc Brondello 1
  1IRMB UMR1183 - Montpellier (France), 2CRCM U1168 - Marseille (France)

P18  Modification of the levels of sulfated steroid hormones by STX64 as a possible geroprotector
  Mercedes Perez-Jimenez 1, Angel Carrion 1, Manuel Muñoz 1
  1University Pablo De Olavide - Sevilla (Spain)

P19  E4F1-mediated control of pyruvate dehydrogenase is essential for p53-dependent senescence
  Pierre-Francois Roux 1, Jean-Marc Lemaitre 2, Matthieu Lacroix 1, Claude Sardet 1, Laurent Le Cam 1
  1Ircm, Institut de Recherche en Cancérologie De Montpellier, Inserm U1194, Université de Montpellier, Institut Régional du Cancer de Montpellier - Montpellier (France), 2IRMB, Institute for Regenerative Medicine and Biotherapy, Inserm U1183, CHRU Montpellier Saint-Eloi Hospital - Montpellier (France)

P20  Senolytics rejuvenate the reparative activity of human cardiomyocytes and endothelial cells
  Piotr Sunderland 1, Luwah Alshammar 1, Emily Ambrose 1, Georgina Ellison-Hughes 1
  1Centre For Human And Applied Physiological Sciences & Centre For Stem Cells And Regenerative Medicine, School Of Basic And Medical Biosciences, Faculty Of Life Sciences & Medicine, King’s College London - London (United Kingdom)
POSTER PRESENTATIONS

GEROSCIENCE OF COVID

P21 SARS-COV-2 infection causes massive lung-cell senescence
Larissa Lipskaia 1, Emmanuelle Born 1, Pauline Maisonnasse 2, Fouillade Charles 3, Pascal Quantin 2, Élisabeth Marcos 1, Arturo Londano-Vallejo 3, Roger Le Grand 3, David Bernard 4, Serge Adnot 5
1 Université Paris Est Creteil - Créteil (France), 2 CEA - Fontenay-Aux-Roses (France), 3 Institut Curie - Paris (France), 4 Université De Lyon - Lyon (France), 5 APHP Hopital Henri Mondor - Creteil (France)

INFLAMMATION AND IMMUNOSENSCENCE

P22 AP-1 complex activation is a conserved signature of immune system aging and a potential regulator of inflamming in human and mice
Duygu Ucar 1, Jackson Laboratory - Farmington (United States)

P23 Numtogenesis affecting chromosome segregation: insights for a novel approach to understand immunosenescence in mice
Mónica González-Sánchez 1, Víctor García-Martínez 1, Sara Bravo 1, Hikaru Kobayashi 1, Irene Martinez De Toda 1, Blanca González-Bermúdez 1, Gustavo R Plaza 2, Mónica De La Fuente 1
1 Complutense University of Madrid - Madrid (Spain), 2 Polytechnic University of Madrid - Madrid (Spain)

P24 Circulating cell-free DNA in plasma as a potential biomarker of biological age. Relationship with the redox state and function of immune cells. Influence of gender
Estefanía Diaz-Del Cerro 1, Mónica González-Sánchez 1, Irene Martinez De Toda 1, Manuel Lambea 1, Jaime Bartolomé 1, Mónica De La Fuente 1
1 Complutense University Of Madrid - Madrid (Spain)

P25 Identification of a blood microRNAs-based signature of ageing in Down Syndrome
Cristina Morsiani 1, Salvatore Collura 1, Maria Giulia Bacalini 2, Claudio Franceschi 1, Miriam Capri 1
1 Department Of Experimental, Diagnostic and Specialty Medicine, University of Bologna - Bologna (Italy), 2 Ircss Istituto Delle Scienze Neurologiche Di Bologna - Bologna (Italy), 3 Laboratory of Systems Medicine Of Healthy Aging and Department of Applied Mathematics, Lobachevsky University - Nizhny Novgorod (Russian Federation)

P26 Allostatic load and Physical Performance: findings from IMIAS Study
Ricardo Guerra 1, Matheus Germano 1, Cristiano Gomes 1, Juliana Fernandes 2
1 Federal University of Rio Grande Do Norte - Natal (Brazil), 2 Federal University of Pernambuco - Recife (Brazil)

P27 Unravel immunosenesence role in response to kidney injury: a first step immune landscaping
Snigdha Nitin Rao 1, Audrey Casemayou 1, Marie Buléon 1, Guylène Feuillet 1, Elodie Riant 1, Alexia Zakaroff-Girard 1, Frédéric Martins 1, Ignacio Gonzalez-Fuentes 1, Jean Sébastien Saulnier Blache 1, Joost Peter Schanstra 1, Julie Belliere 1
1 Institute of Cardiovascular and Metabolic Diseases - Toulouse (France)

P28 Leukocyte-derived ratios are associated with early-onset dementia and functional frailty
Yu Na Kim 1, Saleena Arif 1
1 Dothousehealth - Boston (United States)

P29 Does inflammation contribute to cancer incidence and mortality during aging? A conceptual review
Florent Guerville 1, Maël Lemoine 1, Victor Appay 1
1 Immunoconcept Lab, Bordeaux University - Bordeaux (France)

P30 Associations of Adverse Childhood Experiences with Executive Function and Brain-Derived Neurotrophic Factor in Older Adults
Cindy Tsotsoros 1, Misty Hawkins 1
1 Oklahoma State University - Stillwater (United States)
POSTER PRESENTATIONS

MICROBIOME OF AGING

P31 Late onset pharmacological or dietary interventions in mice improve healthspan and lifespan in male and female mice  
Mitchell Sarah 1, Michael Macarthur 1, Alice Kane 2, David Sinclair 2, Mehmet Huseyin 3, Vath James 3, Manning Brendan 4, Mitchell James 1  
1ETH Zurich - Zurich (Switzerland), 2Harvard University - Boston (United States), 3Zafgen - Boston (United States), 4Harvard - Boston (United States)

MITOCHONDRIAL METABOLISM AND AGING

P32 Metabolomics-based biomarkers for aging in Chinese adults  
Yiming Pan Department of Geriatrics, Xuanwu Hospital, Capital Medical University - Beijing (China)

P33 The Relevance of Oxytosis/Ferroptosis to Aging and Alzheimer’s Disease  
Pamela Maher 1, Antonio Currais 1  
1Salk Institute - La Jolla (United States)

P34 Functional transcriptomic analysis of centenarians’ offspring reveals a specific genetic footprint that may explain that they are less frail than age-matched non-centenarians’ offspring.  
Consuelo Borras 1, Marta Ingles 2, Jose Viña 1  
1Freshage Research Group, Department of Physiology, Faculty of Medicine, University of Valencia, Centro De Investigación Biomédica En Red Fragilidad Y Envejecimiento Saludable-Instituto De Salud Carlos III (ciberfes-Isicil) - Valencia (Spain), 2Freshage Research Group, Department of Physiotherapy, Faculty of Physiotherapy, University of Valencia, Ciberfes-Isicil - Valencia (Spain)

P35 Bcl-xL mice: facing frailty during aging  
Aurora Román-Dominguez 1, Cristina Mas-Bargues 1, Consuelo Borrés 1  
1University Of Valencia - Valencia (Spain)

P36 Genistein in the control of AD progression. From molecular mechanisms to clinical improvement: The GENIAL clinical trial (NCT01982578)  
Jose Viña 1, Consuelo Borras 1  
1Freshage Research Group, Department of Physiology, Faculty of Medicine, University of Valencia, and Ciberfes, Institute of Health Research-Incliva - Valencia (Spain)

P37 BCL-xL overexpression protects T cells during aging: balancing apoptosis and autophagy  
Cristina Mas-Bargues 1, Aurora Román-Dominguez 1, Jorge Sanz-Ros 1, Mar Dromant 1, Nekane Romero-Garcia 1, Jose Viña 1, Consuelo Borrés 1  
1University Of Valencia - Valencia (Spain)

P38 Reconstruction of functional human epidermis equivalent containing 5 %IPS-derived keratinocytes treated with mitochondrial stimulating plant extracts.  
Anne-Laure Bulteau 1, Mariele Moreau 1, Christophe Capallere 1, Christelle Plaza 1, Carine Nizard 1  
1LVMH Research - St. Jean De Braye (France)

P39 Inhibition of de novo ceramide synthesis promotes skeletal muscle hypertrophy in young mice but does not prevent sarcopenia in old mice  
Benjamin Lair 1, Genevieve Tavernier 1, Virginie Bourlier 1, Aline Mairal 1, Camille Bergoglio 1, Diane Beuzelin 1, Deborah Carper 1, Claire Lauren 1, Cedric Moro 1  
1Inserm, UMR1297, Institute of Metabolic and Cardiovascular Diseases, University of Toulouse, Paul Sabatier University - Toulouse (France)

P40 Models of mechanosensitive amyloid channels involved in mitochondria swelling  
H. Robert Guy 1  
1Amyloid Research Consultants - Cochiti Lake, NM (United States)
The ObAGE study: A prospective case-control study embodied in a prospective birth cohort to identify systemic, cellular, and molecular biomarkers of obesity-induced accelerated aging in 30-years old Chilean adults
Maria Paulina Correa 1, Raquel Burrows 1, Cecilia Albala 1, Felipe Salech 2, Guillermo Sanhueza 3, Gonzalez-Billault Christian 4
1Inta, Universidad De Chile - Santiago (Chile), 2Faculty of Medicine, Universidad De Chile - Santiago (Chile), 3Faculty Of Social Science, Universidad De Chile - Santiago (Chile), 4Faculty Of Science And Faculty Of Medicine, Universidad De Chile; Geroscience Center For Brain Health And Metabolism (gero), Chile - Santiago (Chile)

Diet during tissue regeneration in aging and disease
Manuel Alejandro Fernandez Rojo 1, Luis Vicente Herrera 1, Maria P. Ikonomopoulou 1, Javier Moral-Sanz 1, Marta Garrido Novelle 2, Jesus Balsinde 2, Ana Cuenda 4, Roberto Martin 1
1IMDEA-Food Institute - Madrid (Spain), 2CIMUS - Santiago De Compostela (Spain), 3Instituto De Biologia Y Genetica Molecular - Valladolid (Spain), 4National Centre Of Biotechnology - Madrid (Spain)

Oxidative metabolism response to high fat diet in a mouse model of neurodegenerative disease
Camille Champigny 1, Djamaa Atamena 1, Marlene Botella 1, Sebastien Bullich 1, Bruno Guiard 1, Marie-Christine Miquel 1, Corentin Coustham 1, Pascale Belenguer 1, Noëlle Davezac 1
1CRCA-CBI - Toulouse (France), 2CHU Toulouse - Toulouse (France), 3ISAE - SUPAERO - Toulouse (France)

Examining human fertility as a fitness component in the context of the antagonistic pleiotropy theory of ageing
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Metabolic reprogramming of skin by novel mitochondria-targeted sulfide delivery molecules prevents UV-induced photoaging in vivo
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Differential expression of Perilipin family proteins in human brain during aging and Alzheimer’s disease
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Expression pattern of the mitokine GDF15 in human brain in healthy aging and in Alzheimer’s disease
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Novel mitochondria-targeted sulfide delivery molecules attenuate age-induced muscle decline in C. elegans models of ageing and accelerated aging
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