Geroprotectors: Achievements and Challenges

24 and 25 September 2018
Università Cattolica delSacro Cuore
Rome, Italy

Programme
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Monday 24th September 2018

8.30-9.00  Registration

9.00-9.05  Welcome, Giovambattista Pani (Università Cattolica del Sacro Cuore, Italy)

9.05-9.10  Introduction to the meeting, Ilaria Bellantuono (The University of Sheffield, UK)

Session 1 part 1 - What’s exciting in healthspan and geroprotectors
Chair: Adelaide Fernandes Borralho

9.10-9.40  Dan Enhinger (German Center for Neurodegenerative Diseases, Germany)
            Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice

9.40-10.10 Marco Demaria (European Research Institute for the Biology of Aging, Netherlands)
            Cellular senescence: When multitasking becomes dangerous

10.10-10.45 Coffee break

Session 1 part 2 - What’s exciting in healthspan and geroprotectors
Chair: José Luis Trejo

10.45-11.15 Tamara Tchakonia (Mayo Foundation for Medical Education and Research, US)
            Koch’s postulates: Senescent cells drive age related physical dysfunction

11.15-11.30 Alejandro Martin Montalvo (CABIMER, Spain)
            Short presentation: Exploring the thyroid hormones axis for healthspan and lifespan

11.30-11.45 Hasmik Jasmine Samvelyan (The University of Sheffield, UK)
            Short presentation: Associations between timing of feeding and bone’s adaptive response to loading in mouse model

11.45-12.30 Poster highlights (6 x 5 min each)

12.30-14.00 Lunch
Session 2 part 1 - Multimorbidity and Digital Health
Chair: Enrico Dall'ara

14.00-14.15  Ralph Müller (ETH Zurich, Switzerland)
Why MouseAGE is interested in digital health?

14.15-14.45  Alessandra Marengoni (University of Brescia, Italy)
Prevalence, determinants and patterns of multimorbidity

14.45-15.15  Natal Van Riel (Eindhoven University of Technology, Netherlands)
Network modelling of skeletal muscle metabolism; the impact of aging and lifestyle

15.15-15.45  Coffee break

Session 2 part 2 - Multimorbidity and Digital Health
Chair: Ralph Müller

15.45-16.15  Costas Bekas (IBM Research, Switzerland)
Cognitive Discovery: Transforming R&D with AI

16.15-16.45  Alessandro Blasimme (ETH Zurich, Switzerland)
Big data and digital health in aging research: ethical implications

16.45  Poster session and wine reception
Networking Dinner

Tuesday 25th September 2018

Session 3 part 1 - Frailty and resilience
Chair: Ronald Van Os

9.00-9.15  Ilaria Bellantuono (The University of Sheffield, UK)
MouseAGE perspective on models of resilience

9.15-9.45  Kenneth Rockwood (Dalhousie University, Canada)
Deficit accumulation across the life course and late-life frailty

9.45-10.15  Roosmarijn Vandenbroucke (Ghent University – VIB, Belgium)
Sepsis as model of resilience: opportunities and pitfalls
Discussion: What is a model of resilience for and what should it look like?

Coffee break

Coral Sanfeliu (IIBB-CSIC, IDIBAPS, CIBERESP, Spain)
Building a proposal for testing resilience against neurodegeneration

Thomas von Zglinicki (The University of Newcastle, UK)
The senostatic metformin suppresses the development of irradiation-induced frailty in mice

Susan Howlett (Dalhousie University, Canada)
The mouse clinical frailty index tool: preclinical research applications

Lunch

Session 3 part 2 - Frailty and resilience

Chair: Paul Potter

Francesco Landi (Catholic University of Rome, Italy)
Sarcopenia as the biological substrate of physical frailty

Anne-Ulrike Trendelenburg (Novartis, Switzerland)
Frailty in preclinical rodent models

Ariane Scheuren (ETH Zurich, Switzerland)
Combining longitudinal µCT imaging with frailty assessments in the PolgA mouse model

Ilaria Bellantuono (The University of Sheffield, UK)
The post-MouseAGE era

Coffee break

MouseAGE Management Committee meeting (members only)