



Geroprotectors: Achievements and Challenges

24 and 25 September 2018

Università Cattolica del Sacro 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



INFRAFRONTIER

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

- 10.15-10.45 **Discussion:** What is a model of resilience for and what should it look like?
- 10.45-11.15 **Coffee break**
- 11.15-11.30 **Coral Sanfeliu** (IIBB-CSIC, IDIBAPS, CIBERESP, Spain)
Building a proposal for testing resilience against neurodegeneration
- 11.30-12.00 **Thomas von Zglinicki** (The University of Newcastle, UK)
The senostatic metformin suppresses the development of irradiation-induced frailty in mice
- 12.00-12.30 **Susan Howlett** (Dalhousie University, Canada)
The mouse clinical frailty index tool: preclinical research applications
- 12.30-14.00 **Lunch**

Session 3 part 2 - Frailty and resilience

Chair: Paul Potter

- 14.00-14.30 **Francesco Landi** (Catholic University of Rome, Italy)
Sarcopenia as the biological substrate of physical frailty
- 14.30-15.00 **Anne-Ulrike Trendelenburg** (Novartis, Switzerland)
Frailty in preclinical rodent models
- 15.00-15.15 **Ariane Scheuren** (ETH Zurich, Switzerland)
Combining longitudinal μ CT imaging with frailty assessments in the PolgA mouse model
- 15.15-15.45 **Ilaria Bellantuono** (The University of Sheffield, UK)
The post-MouseAGE era
- 15.45 **Coffee break**
- 16.00-17.00 MouseAGE Management Committee meeting (members only)