

2030 SENESCENCE



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SENESCENCE2030 International Symposium

Cellular Senescence in Metabolic Disorders: From Mechanisms to Clinical Consequences in Complex Disease



8–9 September 2026



Royal Continental Hotel, Naples, Italy

Scientific Organizers

Rosa Spinelli • Aniello Cerrato • Francesco Beguinot • Ulf Smith



Symposium Programme | Tuesday 8th September 2026

08:30 – 09:00 | Registration

09:00 – 09:30 | Opening Session

Welcome and Introduction

09:30 – 10:30 | **Keynote Lecture by Prof. James L. Kirkland (USA)**

Chair: Prof. Ulf Smith

10:30 – 11:00 | Coffee Break (Hotel Royal Continental)

11:00 – 12:15 | **Senescence Across Metabolically Active Tissues: Mechanisms, Dysfunction, and Consequences**

Chair: Prof. Ulf Smith

11:00 – 11:25 | **Prof. Davis Englund (USA)** - *From aging to injury: cellular senescence as a driver of skeletal muscle dysfunction*

11:25 – 11:50 | **Prof. Georgina Ellison-Hughes (United Kingdom)** - *Targeting cell senescence to rejuvenate the heart*

11:50 – 12:15 | **Dr. Rosa Spinelli (Italy)** - *Shared senescence programs across metabolically active tissues*

12:15 – 13:05 | **Senescent Cell Burden and Vulnerabilities**

Chair: Prof. Marco Demaria

12:15 – 12:40 | **Prof. Valery Krizhanovsky (Israel)** - *Cell type-specific senescence burden across organs in aging*

12:40 – 13:05 | **Prof. Juan Carlos Acosta (United Kingdom)** - *Discovering and targeting senescent cell vulnerabilities*

13:05 – 15:00 | Lunch Break (Hotel Royal Continental)

15:00 – 16:40 | Mechanisms, Heterogeneity, and Context-Dependence of Senescence

Chair: Prof. Francesco Beguinot

15:00 – 15:25 | Dr. Francesca Castoldi (Sweden) - *Polyamine catabolism as a central regulator of cellular senescence*

15:25 – 15:50 | Prof. Marco Demaria (Netherlands) - *Purinergic signalling reinforces an inflammatory SASP and promotes senescence-associated dysfunctions*

15:50 – 16:15 | Prof. Cleo Bishop (United Kingdom) - *Exploring pro-senescence mechanisms and therapeutic strategies for cancer*

16:15 – 16:40 | Prof. Vassilis G. Gorgoulis (Greece) - *Immune cell senescence and response to immunotherapy*

16:40 – 18:00 | Round Table Discussion

Chair: Prof. Marco Demaria

Symposium Programme | Wednesday 9th September 2026

09:00 – 10:40 | Senescence in Complex Disease: from Metabolic Dysfunction to Multimorbidity

Chair: Prof. Francesco Beguinot

09:00 – 09:25 | Prof. Valérie Schini-Kerth (France) - *Endothelial senescence: a novel target to improve cardiovascular health*

09:25 – 09:50 | Prof. Pasquale Maffia (United Kingdom) - *Premature cardiovascular aging in Africa: linking infection, immune activation, and cellular senescence*

09:50 – 10:15 | Prof. Ana Guerrero (Spain) - *Senolytics in Alzheimer's disease: insights from preclinical models* (Virtual Participation)

10:15 – 10:40 | Prof. Gregory A. Raciti (Italy) - *Innovative tools for predicting incident cardiovascular events in patients with Type 2 Diabetes*

10:40 – 11:10 | Coffee Break (Hotel Royal Continental)

11:10 – 12:25 | Targeting Senescence in Complex Disease

Chair: Prof. Pasquale Maffia

11:10 – 11:35 | Dr. Mariantonietta D'Ambrosio (United Kingdom) - *A covalent fragment screen identifies GPX4-dependent ferroptosis as a novel senescence vulnerability*

11:35 – 12:00 | Dr. Stijn Meijnikman (Netherlands) - *Senolytics dasatinib plus quercetin reduce liver fibrosis in metabolic dysfunction-associated steatohepatitis: a phase 2 randomized trial: the Truth study*

12:00 – 12:25 | Prof. Carlo Gaetano (Italy) - *Targeting inflammaging and cellular senescence: a translational Italian experience in senolytic drug development*

12:25 – 13:25 | Selected Young Investigator Presentations

Chair: Dr. Rosa Spinelli

12:25 – 12:40 | Dr. Jack Zhan Haoqun (United Kingdom) - *Nuclear integrity influences the dynamic range of inflammation*

12:40 – 12:55 | Dr. Antonella Desiderio (Italy) - *TNF- α –PANDAR axis drives epigenetic propagation of adipocyte precursor cell senescence in obesity and Type 2 Diabetes*

12:55 – 13:10 | Dr. Cláudia M. Deus (Portugal) - *miRNAs in metabolic disorders: miRNA-642-3p as a protector of beta cell function under glucolipotoxic stress*

13:10– 13:25 | Dr. Merve Yıldırım (Turkey) - *Senescent IPF myofibroblasts exhibit anti-fibrotic proteostatic remodeling and immune-like features*

13:25 – 14:00

Closing Remarks — Future Directions for SENESCENCE2030

Chairs: Prof. Ulf Smith and Prof. Francesco Beguinot

14:00 – 15:30 | Networking Lunch (Hotel Royal Continental)