



A.D. 1308  
**unipg**  
UNIVERSITÀ DEGLI STUDI  
DI PERUGIA

# Ph.D. in Biotechnology University of Perugia



WINTER SCHOOL  
BIOTECHNOLOGY  
PERUGIA

**23-30 January 2023 - 9<sup>th</sup> Edition**

**Aula 1 – ADISU Via del Giochetto**

# Biotechnology & Aging



Ending aging: Adapted from GenerazioneBio.com

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con il patrocinio del Comune di Perugia



**Comune di Perugia**

**Scientific Committee:** Stefano Bruscoli  
Gianluigi Cardinali  
Fausto Elisei  
Carla Emiliani

**Organizing Committee:** Martina Alunni Cardinali  
Stefano Bruscoli  
Gianluigi Cardinali  
Benedetta Carlotti  
Laura Corte  
Daniele Fioretto

Sabata Martino  
Assunta Morresi  
Francesco Paolucci  
Efisio Puxeddu  
Fabio Rondelli

# Biotechnology & Aging



info: [dottorato.biotechologie@unipg.it](mailto:dottorato.biotechologie@unipg.it)

registration: <https://wsbperugia.com/>

## Monday, January 23, 2023

Chairs: Gianluigi Cardinali, Stefano Bruscoli

15:00 – 15:30		<b>OPENING</b>
15:30 – 16:00	<b>Gianluigi Cardinali</b>	Come l'invecchiamento e la morte sono entrate nell'evoluzione
16:00 – 16:30	<b>Chiara Argentati</b>	Come le biotecnologie combattono la senescenza molecolare rigenerando i tessuti
16:30 – 17:00	<b>COFFEE BREAK</b>	
17:00 – 17:30	<b>Stefano Bruscoli</b>	Le sfide della medicina sull'invecchiamento
17:30 – 18:00	<b>Fabio Rondelli</b>	Chirurgia e biotecnologie: esistono degli elementi in comune?

## Tuesday, January 24, 2023

Chairs: Sabata Martino, Daniele Fioretto

09:00 – 09:30		<b>OPENING</b>
09:30 – 11:00	<b>Antonio Graziano</b>	Innovative micrografting regenerative strategies for osteoarthritis: treatments in adults and elderly
11:00 – 11:30	<b>COFFEE BREAK</b>	
11:30 – 13:00	<b>Claudia Verderio</b>	Role of microglial extracellular vesicles in early synaptic dysfunction in Alzheimer disease
13:00 – 14:30	<b>LUNCH and POSTER SESSION</b>	
14:30 – 16:00	<b>Simone Giuliano</b>	Aging and infectious diseases
16:00 – 16:30	<b>TEA BREAK</b>	
16:30 – 18:00	<b>Oral Presentations</b>	Oral presentations of Ph.D Students

## Wednesday, January 25, 2023

Chairs: Gianluigi Cardinali, Laura Corte

09:00 – 09:30		<b>OPENING</b>
09:30 – 11:00	<b>Fabrizio d'Adda di Fagagna</b>	Telomeres and Aging
11:00 – 11:30	<b>COFFEE BREAK</b>	
11:30 – 13:00	<b>Micheal Klutstein</b>	Cellular and epigenetic aging: Beer and Eggs
13:00 – 14:30	<b>LUNCH and POSTER SESSION</b>	
14:30 – 16:00	<b>Joanna Mankiewicz-Boczek</b>	Not just single cells - the problem of microbial diversity and aging for environmental biotechnologies
16:00 – 16:30	<b>TEA BREAK</b>	
16:30 – 18:00	<b>Oral Presentations</b>	Oral presentations of Ph.D Students

# Biotechnology & Aging

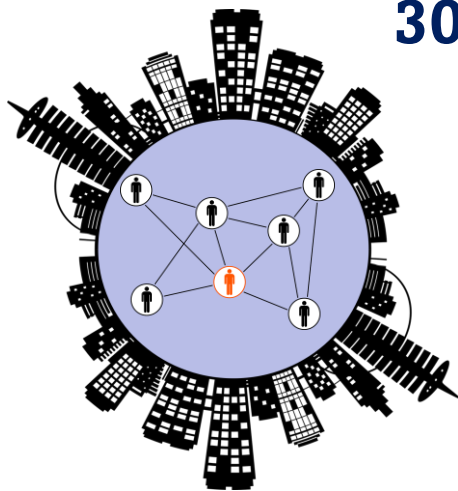


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Thursday, January 26, 2023

Chairs: Fabio Rondelli, Benedetta Carlotti

09:00 – 09:30		<b>OPENING</b>
09:30 – 11:00	<b>Giampaolo Ugolini</b>	The challenge of caring for old cancer patients. A surgeon's perspective from Minimally Invasive Surgery to Artificial Intelligence and supportive care
11:00 – 11:30		<b>COFFEE BREAK</b>
11:30 – 13:00	<b>Valentina Benfenati</b>	Glial Engineering: biotechnologies to unveil the role of glia in brain function, dysfunction and aging
13:00 – 14:30		<b>LUNCH and POSTER SESSION</b>
14:30 – 16:00	<b>Virginia Boccardi</b>	Aging, cellular senescence and cognitive decline
16:00 – 16:30		<b>TEA BREAK</b>
16:30 – 18:00	<b>Oral Presentations</b>	Oral presentations of Ph.D Students



**30 January 2022 - ore 16,30**  
**Sala dei Notari**

Open day – Biotechnology and Society:  
**«Biotechnologie e Invecchiamento»**

**Speakers:**

Prof. Luca Gammaitoni – University of Perugia (IT)  
Prof.ssa Patrizia Mecocci – University of Perugia (IT)  
Mons. Tomasz Trafny – Pontificio Consiglio della Cultura,  
Città del Vaticano  
Prof.ssa Alessandra Pioggia – University of Perugia (IT)

**Chair:**

Prof. Stefano Bruscoli  
University of Perugia (IT)



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SPEAKERS	AFFILIATIONS
Valentina Benfenati	CNR-Istituto per la Sintesi Organica e la Fotoreattività, Bologna (IT)
Virgilia Boccardi	University of Perugia (IT)
Fabrizio D'Adda di Fagnana	IFOM, Milano (IT)
Luca Gammaitoni	University of Perugia (IT)
Simone Giuliano	Infectious Disease Unit, Santa Maria Misericordia University Hospital, Udine (IT)
Antonio Graziano	President and CEO - Gruppo Rigenera HBW (IT)
Michael Klutstein	Hebrew University of Jerusalem (IS)
Joanna Mankiewicz-Boczek	University of Lodz (PO)
Patrizia Mecocci	University of Perugia (IT)
Alessandra Pioggia	University of Perugia (IT)
Tomasz Trafny	Pontificio Consiglio della Cultura, Città del Vaticano
Giampaolo Ugolini	University of Bologna (IT)
Claudia Verderi	CNR- Istituto di Neuroscienze - Milano Bicocca (IT)



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