



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

Sponsored by



Evento patrocinato dal



**Comune di Perugia**

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

**Organizing Committee:**

Martina Alunni Cardinali  
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Benedetta Carlotti  
Laura Corte  
Daniele Fioretto  
Sabata Martino  
Assunta Morresi  
Francesco Paolucci  
Efisio Puxeddu  
Fabio Rondelli

# Biotechnology & Aging



WINTER SCHOOL  
BIOTECHNOLOGY  
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info: [dottorato.biotechnologie@unipg.it](mailto:dottorato.biotechnologie@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>Stefano Bruscoli</b>    | Le sfide della medicina sull'invecchiamento                   |
| 16:30 – 17:00 |                            | <b>COFFEE BREAK</b>   |
| 17:00 – 17:30 | <b>Sabata Martino</b>      | TBA   |
| 17:30 – 18:00 | <b>Fabio Rondelli</b>      | TBA   |

## 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



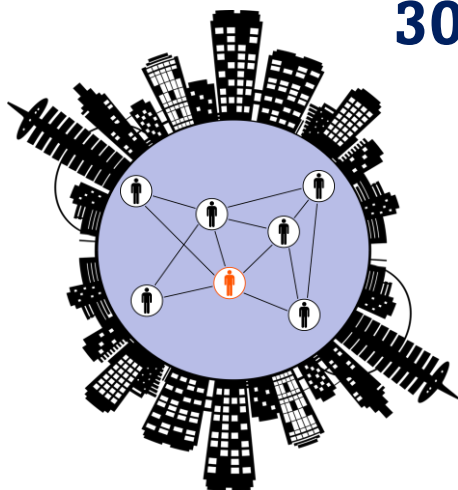
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Thursday, January 26, 2023

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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