

Wednesday 22nd of September 2021

Room-U3-01

Webex link:

<https://unimib.webex.com/unimib/onstage/g.php?t=a&d=26703736038>

Password: DAY2

SESSION III

ARTIFICIAL INTELLIGENCE and SYNTHETIC BIOLOGY

Chairs: Riccardo Milanese, Valentina Artusa

- 09:00 – 09:45 *Invited lecture and Q&A* **To4**
Prof. Isak S Pretorius, ARC Centre of Excellence in Synthetic Biology, Macquarie University, Sydney, Australia
The convergence of synthetic biology and artificial intelligence
- 09:45 – 10:10 *PhD student's presentation: 3rd year* **S09**
Daniele D'Arrigo, Ente Ospedaliero Cantonale (EOC), Lugano, Switzerland
Osteoarthritis theranostics: characterization of synovial fluid extracellular vesicles and an osteoarthritic joint-on-chip model
- 10:10 – 10:35 *PhD student's presentation: 3rd year* **S10**
Giulia Agostinetti, University of Milano-Bicocca, Milan, Italy
Convergent technologies in metagenomics: enhancing the available analytical tools
- 10:35 – 11:00 *PhD student's presentation: 2nd year* **S11**
Letizia Maestroni, University of Milano-Bicocca, Milan, Italy
A novel combination of synthetic biology approaches towards Glucobrassicin production in yeast chassis
- 11:00 – 11:30 COFFEE BREAK
- 11:30 – 11:55 *PhD student's presentation: 3rd year* **S12**
Nicola Tommasi, University of Milano-Bicocca, Milan, Italy
A multilevel approach to investigate the impact of anthropogenic stressors on pollinator insects in three continents: problems and possible solutions

- 11:55 – 12:20 *PhD student's presentation: 2nd year* **S13**
Davide Panzeri, University of Milano-Bicocca, Milan, Italy
Bowman-Birk protease inhibitor: from phylogenetic diversity to functional efficacy
- 12:20 – 12:45 *PhD student's presentation: 3rd year* **S14**
Alessandra De Giani,
University of Milano-Bicocca, Milan, Italy
Impact of prebiotics and probiotics on gut microbiota and human health
- 12:45 – 13:45 LUNCH BREAK

SESSION IV

Chairs: Erika Casari, Gloria Campioni

- 13:45 – 14:10 *PhD student's presentation: 2nd year* **S15**
Roberta Torinesi, University of Milano-Bicocca, Milan, Italy
Stress-induced ubiquitin-rich aggregates: identification and visualization in the yeast *Saccharomyces cerevisiae*
- 14:10 – 14:35 *PhD student's presentation: 3rd year* **S16**
Fabrizio Beltrametti, BioC-CheM Solution Srl,
Gerenzano (VA), Italy
Production and purification of biosurfactants from environmental isolates of fungi and bacteria
- 14:35 – 15:00 *PhD student's presentation: 2nd year* **S17**
Alex Pessina, University of Milano-Bicocca, Milan, Italy
Revisiting trehalose production in yeast
- 15:00 – 15:35 *PhD students' flash poster presentation: 1st year*
Fo8. Michela Galli, University of Milano-Bicocca, Milan, Italy
Genetic interaction between Mec1 and Mrc1 in response to replication stress
Link to poster session:
<https://campus-unimib.webex.com/meet/m.galli50>

F09. Giulia Motta, University of Milano-Bicocca, Milan, Italy
Adverse outcome pathways-oriented toxicology in *in vitro* systems for implementing the safety-by-design of new nanomaterials: preliminary studies on Ag NPs
Link to poster session:

<https://campus-unimib.webex.com/meet/g.motta15>

F10. Stefania Pagliari,

University of Milano-Bicocca, Milan, Italy

Development of innovative green procedure for the recovery of active compounds from food and agricultural by-products

Link to poster session:

<https://campus-unimib.webex.com/meet/s.pagliari2>

F11. Emiliano Pioltelli,

University of Milano-Bicocca, Milan, Italy

Unraveling the impact of urbanization on insect pollinators and their role in shaping fruit chemical features

Link to poster session:

<https://campus-unimib.webex.com/meet/e.pioltelli>

F12. Paolo Pizzul, University of Milano-Bicocca, Milan, Italy

Role of the DNA damage response in R-Loops recognition and signalling

Link to poster session:

<https://campus-unimib.webex.com/meet/p.pizzul>

F13. Marta Simonetti,

Albini Group - Cotonificio Albini S.p.A., Albino (BG), Italy

New perspectives for textile waste: recycling material by mechanical/chemical pre-treatment and enzymatic hydrolysis processes

Link to poster session:

<https://campus-unimib.webex.com/meet/m.simonetti12>

F14. Giulia Tomaino, University of Milano-Bicocca, Milan, Italy

Development and characterization of vault-based nanocarriers in *Pichia pastoris*

Link to poster session:

<https://campus-unimib.webex.com/meet/g.tomaino3>

15:35 – 16:35

POSTER SESSION and COFFEE BREAK

16:35 – 17:05

TED-like talk and Q&A

To5

Dott. Joseph Sassoon

About Storytelling and Artificial Intelligence

17:05 - 17:15

Spotlight on PhD Students

Valentina Artusa, Stefania Blasa, Fabrizio Beltrametti,

Gloria Campioni, Sofia Magli and Nicola Tommasi

17:15

End of day 2