BBCC2024
Bioinformatics and Computational Biology Conference
November 27-29, 2024


Overview  Program


November 25

One-day training activity
**From raw matrices to differential expression/methylation patterns: a functional genomics approach to detect molecular insights**
(participation limited to 15 attendees)

November 26

One-day training activity
**Software Environments, Containers, and Notebooks (for Bioinformatics and Computational Biology)**
(participation limited to 15 attendees)


November 27-29

**BBCC2024 Main Conference**

# BBCC2024 Main Conference Program

November 27

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| 9:00 | Opening Registration Desk |
| 10:00 | Opening of the Conference – Welcome and Introduction |
| | *Session: Structural Bioinformatics* |
| **10:15** | **Invited lecture** |
| | **Marta Szachniuk** |
| | *Frontiers in computational prediction of RNA structure* |
| 11:00 | Coffee Break and Posters |
| 11:30 | *oral presentation* |
| 11:50 | *oral presentation* |
| 12:10 | *oral presentation* |
| 12:30 | *oral presentation* |
| 12:50 | *oral presentation* |
| 13:10 | Break – Lunch buffet |
| 14:40 | *oral presentation* |
| 15:00 | *oral presentation* |
| 15:20 | *oral presentation* |
| 15:40 | *oral presentation* |
| 16:00 | Coffee Break and Posters |
| | *Session: Databases of biological information* |
| **16:30** | **Invited lecture** |
| | **Marco Beccuti** |
| | *IT Infrastructure and Computational Services in the PNRR IR SUS-MIRRI.IT Project to support the Italian Microbial Research* |
| 17:20 | *oral presentation* |
| 17:40 | *oral presentation* |
| 18:00 | *Closing remarks of first day* |

November 28

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| 9:00 | *Session: Omics and disease* |
| 9:00 | *oral presentation* |
| 9:20 | *oral presentation* |
| 9:40 | *oral presentation* |
| 10:00 | *oral presentation - To be confirmed (short presentation)* |

**10:15** **Invited lecture**

**Enrico Glaab**
*Comprehensive blood metabolomics profiling analysis of Parkinson's disease*

11:00 Coffee Break and Posters

*Session: Bioinformatics development and applications*

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|---|---|
| 11:30 | *oral presentation* |
| 11:50 | *oral presentation* |
| 12:10 | *oral presentation* |
| 12:30 | *oral presentation* |
| 12:50 | *oral presentation* |

13:10 Break – Lunch buffet

*Special session*
*Collaborative Advancements in Bioinformatics: Integrating Infrastructure and Industrial Solutions*
14:30

16:00 Coffee Break and Posters

*Session: Novel and challenging methodologies and big data analysis*

**16:30** **Invited lecture**

**Jack Tuszyński**
*Investigations of metabolic changes in cancer cells resulting from pharmacological agents and low-intensity electromagnetic fields*

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|---|---|
| 17:20 | *oral presentation* |
| 17:40 | *oral presentation* |
| 18:00 | *Closing remarks of second day* |
| 20:00 | *Social dinner (upon reservation)* |

November 29

*Session: Novel and challenging methodologies and big data analysis (continued)*

9:00  *oral presentation*

9:20  *oral presentation*

9:40  *oral presentation*

10:00  *oral presentation - To be confirmed (short presentation)*

*Session: Statistics and Artificial Intelligence in Data Analytics*

**10:15  Invited lecture**

**Audronė Jakaitienė**

*Predictive Analytics in Medicine and Biology*

11:00  Coffee Break and Posters

11:30  *oral presentation*

11:50  *oral presentation*

12:10  *oral presentation*

12:30  *oral presentation*

12:50  *oral presentation*

13:10  Break –Lunch buffet

*Session: Systems biology*

14:30  *oral presentation*

14:50  *oral presentation*

15:10  *oral presentation*

15:30  *oral presentation*

15:60  *Special session: Young BITS proposal*

16:50  *Announcements: best oral presentation award – Future works*

17:00  *Closing of the Conference*