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## B-ING BAND

La band composta da docenti di Scienze e Ingegneria dell'Università di Trento.

**ORE 17.30  
POVO2**



# WIP

**9&10  
SEPTEMBER**

Thank you to  
**Pezcoller  
Foundation**

PHD PROGRAM  
IN  
BIOMOLECULAR  
SCIENCES

WORK IN  
PROGRESS  
**2024**



**UNIVERSITÀ  
DI TRENTO**

Dipartimento di  
Biologia Cellulare, Computazionale e Integrata - CIBIO

**TEATRO  
CONCORDIA  
POVO**

# 9 SEPTEMBER

## SESSION 1

**CHAIR - Beatrice Dalpedri & Emilio Cusanelli**

**09:50 Elena Righetti**

A virtual lab for Parkinson's disease: modeling alpha-synuclein aggregation dynamics

**10:10 Marta Paoli**

Sensitive tumor detection, accurate quantification, and cancer subtype classification using low-pass whole methylome sequencing of plasma DNA

**10:30 Leonardo Morelli**

HiCONA: Hi-C Organization with Network Analysis

## SESSION 2

**CHAIR - Davide Bressan & Alberto Inga**

**11:20-11:40 Emma Busarello**

Interpreting single-cell messages in normal and aberrant hematopoiesis with the Cell Marker Accordion

**11:40-12:00 Davide Golzato**

Exploiting the potential of metagenomics to uncover novel and uncharacterized gut microbiome diversity

**12:00-12:20 Nicole Innocenti**

Targeting the undruggable: chemical exploration of a Prion Protein degrader compound

**LUNCH TIME**

**14 - 16 POSTER SESSION 1**

## SESSION 3

**CHAIR - Marina Mione & Enrico Sebastiani**

**16:10-16:30 Ilaria Zeni**

Light Identification of Protein Suppressors (LIPS) as a new technology to screen for pharmacological modulators of the cellular prion protein

**16:30-16:50 Matteo Pozzi**

Empowering Healthcare with AI: Deep Learning Applications to improve Ductal In Situ Carcinoma understanding

**16:50-17:10 Khouloud Zribi**

Characterization of novel formate dehydrogenases (FDHs)

# 10 SEPTEMBER

## SESSION 4

**CHAIR - Michela Denti & Matthias Carl**

**09:30-09:50 Emanuele Filiberto Rosatti**

Exploring the differentiation hierarchy of glioblastoma as a therapeutically exploitable vulnerability

**09:50-10:10 Michal Punčochář**

Deconvoluting multiple strains in the microbiome

**10:10-10:30 Guendalina Bergonzoni**

Decoding neuronal vulnerability: multidimensional analysis of D1R- and D2R- medium-sized spiny neurons in Huntington's Disease

**10.30 - 13.00 POSTER SESSION 2**

**LUNCH TIME**

## SESSION 5

**CHAIR - Jacopo Vigna & Luca Fava**

**14:30-14:50 Riccardo Scandino**

Enabling sensitive and precise detection of tumor signals through somatic copy number aberrations in cfDNA from breast cancer patients

**14:50-15:10 Eleonora Parolin**

Targeted Protein Degradation of BAZ Bromodomains: a therapeutic opportunity for prostate cancer and Alzheimer's disease

**15:10-15:30 Gabriele Trentini**

Searching for New Therapeutic Opportunities in Lafora Disease

**15:30-15:50 Valeria Manara**

Disrupting ribosome biogenesis: NOC1 reduction activates a novel MYC-p53 axis mediating nucleolar stress

**16:00-16:45**

Riunione con Coordinatore e Direttore

# WORK IN PROGRESS 2024