



## ANNUAL MEETING OF THE PhD PROGRAMME “BIOMEDICAL SCIENCES AND TECHNOLOGIES” (STB)

January 16<sup>th</sup> - 17<sup>th</sup>, 2023

Lecture hall 2, Department of Science, Viale G. Marconi 446, Rome

### January 16<sup>th</sup>, 2023

9:30 - 9:45 Prof. Fabio Polticelli - Welcome and opening remarks of the Director of the PhD Programme

#### **XXXV PhD Programme STB (25 min presentation; 5 min discussion)**

##### **Cell Physiology and Pharmacology**

**Chairs: Prof. PALLOTTINI, Prof. TREZZA**

9:45 - 10:15 CRACCO PATRIZIO

Triggering neuroprotective pathways to prevent neurodegeneration: role of estrogen receptor beta/neuroglobin signaling in neurodegeneration (tutor MARINO)

10:15 - 10:45 PESCATORI SARA

Clinically relevant kinases inhibitors abrogate ER $\alpha$  expression and cell proliferation in luminal primary and metastatic breast cancer cells (tutor ACCONCIA)

10:45 - 11:15 CARBONE EMILIA

Role of neuroinflammation in autism spectrum disorder: insights from preclinical studies (tutor TREZZA)

**11:15 - 11:30 Coffee Break**

##### **Microbiology**

**Chairs: Prof. IMPERI, Prof. LEONI**

11:30- 12:00 LETIZIA MORGANA

Uncovering novel features of the *Pseudomonas aeruginosa las, rhl* and *pqs* quorum sensing systems (tutor RAMPIONI)

12:00 - 12:30 PERUZZU DANIELA

Role of lipid rafts in the innate and adaptive immune response to bacterial and viral infections (tutor VISCA; co-tutor GAGLIARDI)

12:30 - 13:00 TURRINI PAOLO

Taxonomic profiles and metabolic properties of microbiomes in natural and anthropized caves (tutor VISCA)

**13:00 - 14:00 Lunch**

#### **XXXVI PhD Programme STB (15 min presentation; 5 min discussion)**

##### **Cell Physiology and Pharmacology**

**Chairs: Prof. FIOCCHETTI, Prof. MARINO**

14:00 - 14:20 PARENTE MARTINA

The role of BET proteins on cholesterol metabolism (tutor PALLOTTINI)

14:20 - 14:40 PIASTRA VALENTINA

Drug repurposing approach to inhibit MKK3/p38MAPK signaling for therapeutic strategies in CRC (tutor ACCONCIA; co-tutor BOSSI)



14:40 - 15:00 BUZZELLI VALERIA

New insight on the role of phytocannabinoid in autism spectrum disorder (tutor TREZZA)

### **Microbiology and Immunology**

**Chairs: Prof. RAMPIONI, Prof. SACCHI**

15:00 - 15:20 CAPECCHI GIULIA

Study of the molecular mechanisms at the basis of desiccation resistance in the pathogenic bacterium *Acinetobacter baumannii* (tutor VISCA)

15:20 - 15:40 CARUSO LORENZO

Role of hydrogen sulphide in *Pseudomonas aeruginosa* physiology and virulence (tutor RAMPIONI)

15:40 - 16:00 CERVONI MATTEO

Role of LPS modifications in *Pseudomonas aeruginosa* adaptation and colistin resistance (tutor IMPERI)

16:00 - 16:20 RICCI DANIELA

Study of immune response to SARS-CoV-2 infection and analysis of immunopathogenetic mechanisms: what we have learnt moving from SARS-CoV-2 infection towards vaccination (tutor AFFABRIS; co-tutor COCCIA)

## **January 17th, 2023**

### **XXXVII PhD Programme STB (10 min presentation; 5 min discussion)**

#### **Biochemistry and Cell Physiology**

**Chairs: Prof. ACCONCIA, Prof. DI MASI**

9:30 - 9:45 DE LAURO ALFREDO

Development of a software platform for the design of therapeutic antibodies (tutor POLITICELLI)

9:45 - 10:00 VARRICCHIO ROMUALDO

Role of Human Serum Albumin in the recognition and protection towards pathogens (tutor DI MASI)

10:00 - 10:15 BASTARI GIOVANNA

Role of extracellular trafficking of Neuroglobin in neurodegeneration and neuroprotection (tutor FIOCCHETTI)

10:15 - 10:30 BENIGNI FEDERICA

Generation of isogenic lines using CRISPR/Cas9 technology from induced pluripotent stem cells (iPSCs) (tutor PALLOTTINI; co-tutor COMPAGNUCCI)

10:30 - 10:45 CALCONI GIULIA

Evaluation of individual ATM variants to validate p53 mitotic centrosome localization as a functional test to predict pathogenicity of ATM VUS (tutor AFFABRIS; co-tutor SODDU)

#### **Microbial Biotechnology and Immunology**

**Chairs: Prof. AFFABRIS, Prof. VENDITTI**

10:45 - 11:00 TOMASSETTI FEDERICA

Optimization, prototyping and validation of a new device for the microbiological monitoring of water (AquaControl) (tutor: ANTONINI)

11:00 - 11:15 D'ORSO SILVIA

The immune landscape of antiviral responses in multiple sclerosis (tutor VISCA; co-tutor BATTISTINI)

**11:15 - 11:30 Coffee Break**



**XXXVIII PhD Programme STB (6 min presentation; 4 min discussion)**

**Chairs: Prof. GASPERI, Prof. POLITICELLI**

11:30 - 11:40 ASCONE FABRIZIO

11:40 - 11:50 CALVINO GIULIA

11:50 - 12:00 FEO ALESSANDRO

12:00 - 12:10 FRANZA MARIA

12:10 - 12:20 FRASCOLLA CARLOTTA

12:20 - 12:30 LAVECCHIA DI TOCCO FRANCESCO

12:30 - 12:40 OLIVIERI ELENA

12:40 - 12:50 PIRRONELLO MARTA

12:50 - 13:00 RAIMONDI SERENA

13:00 - 13:10 SOZZI SILVIA

13:10 - 13:20 SPAGNOLI CINZIA

13:20 - 13:30 SPOSATO DAVIDE

13:30 - 13:40 VERDIANI ALICE

**13:40 - 13:55 Concluding remarks of the Director of the PhD Programme**

**13:55 - 14:10 Awarding Ceremony**

**14:10 - 15:00 Lunch**

**15:00 - 17:00 Meeting of the "BIOMEDICAL SCIENCES AND TECHNOLOGIES" (STB) Scientific Board**