



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

December 16th - 17th, 2021

Lecture hall 6, Department of Science, Viale G. Marconi 446, Rome

December 16th, 2021

9:00 - 9:15 Prof. Fabio Polticelli - Welcome and opening remarks of the Director of the PhD Programme

XXXIV PhD Programme STB (20 min presentation; 5 min discussion)

Biochemistry, Cell Physiology and Pharmacology Session

Chairs: Prof. ASCENZI, Prof. MARINO

9:15 - 9:40 PASQUADIBISCEGLIE ANDREA

Computational study of the structure and mechanism of mitochondrial carriers involved in human diseases (tutor POLITICELLI)

9:40 - 10:05 VITA GIAN MARCO

Role of human serum albumin in the innate immune response (tutor ASCENZI)

10:05 - 10:30 ALBANESI JACOPO

Identification of new molecular targets for acute promyelocytic leukemia treatment (tutor DI MASI)

10:30 - 10:55 BARTOLONI STEFANIA

Telaprevir-dependent modulation of estrogen receptor alpha levels in breast cancer cells: impact on E2 signaling (tutor ACCONCIA)

10:55 - 11:20 D'ELIA ANNUNZIATA

Development of innovative neuroimaging techniques in laboratory animals for neuroscience applications (tutor TREZZA; co-tutor MASSARI)

11:20 - 11:40 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. RAMPIONI, Prof. VISCA

11:40 - 12:05 ARTUSO IRENE

Comparative genomics of *Aminobacter* species and *Acinetobacter baumannii* (tutor VISCA)

12:05 - 12:30 SPINNATO MARIA CONCETTA

Identification and functional characterization of novel essential proteins in the human pathogen *Pseudomonas aeruginosa* (tutor IMPERI)

12:30 - 12:55 COLLALTO DILETTA

Antivirulence drugs as promising adjuvants for the treatment of *Pseudomonas aeruginosa* pulmonary infections (tutor LEONI)

12:55 - 13:20 PIMENTEL DE ARAUJO FERNANDA

Virulence-related traits of *Staphylococcus aureus* clones from osteomyelitis in Italy (tutor VISCA; co-tutor PANTOSTI)

13:20 - 14:30 Lunch



XXXV PhD Programme STB (15 min presentation; 5 min discussion)

Cell Physiology and Pharmacology Session

Chairs: Prof. PALLOTTINI, Prof. TREZZA

14:30 - 14:50 CRACCO PATRIZIO

Triggering Neuroprotective Pathways to Prevent Neurodegeneration: Role of Estrogen Receptor Beta/Neuroglobin Signaling in Neurodegeneration (tutor MARINO)

14:50 - 15:10 PESCATORI SARA

The inhibition of ATR/Chk1 pathway triggers ERalpha degradation via the induction of replication stress and prevents E2 signaling to breast cancer cell proliferation (tutor ACCONCIA)

15:10 - 15:30 CARBONE EMILIA

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

Microbiology and Biotechnology Session

Chairs: Prof. IMPERI, Prof. LEONI

15:30- 15:50 LETIZIA MORGANA

Untangling the quorum sensing signaling cascade in *Pseudomonas aeruginosa* (tutor RAMPIONI)

15:50 - 16:10 PERUZZU DANIELA

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

16:10 - 16:30 TURRINI PAOLO

Study of the taxonomic profiles and metabolic properties of cave microbiomes (tutor VISCA)

December 17th, 2021

XXXVI PhD Programme STB (10 min presentation; 5 min discussion)

Cell Physiology and Pharmacology Session

Chairs: Prof. DI MASI, Prof. FIOCCHETTI

9:30 - 9:45 PARENTE MARTINA

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

9:45 - 10:00 PIASTRA VALENTINA

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

10:00 - 10:15 BUZZELLI VALERIA

New insights on the role of cannabidiol in autism spectrum disorder: from synapse to behavior (tutor TREZZA)

Microbiology and Biotechnology Session

Chairs: Prof. AFFABRIS, Prof. ANTONINI

10:15 - 10:30 CAPECCHI GIULIA

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

10:30 - 10:45 CERVONI MATTEO

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



10:45 - 11:00 CARUSO LORENZO

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

11:00 - 11:15 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)

11:15 - 11:30 Coffee Break

XXXVII PhD Programme STB (6 min presentation; 4 min discussion)

Chairs: Prof. ACCONCIA, Prof. GASPERI

11:30 - 11:40 BASTARI GIOVANNA (tutor FIOCCHETTI)

11:40 - 11:50 BENIGNI FEDERICA (tutor PALLOTTINI; co-tutor COMPAGNUCCI)

11:50 - 12:00 CALCONI GIULIA (tutor AFFABRIS; co-tutor SODDU)

12:00 - 12:10 DE LAURO Alfredo (tutor POLTICELLI)

12:10 - 12:20 D'ORSO SILVIA (tutor VISCA; co-tutor BATTISTINI)

12:20 - 12:30 MHAMDI OUMAIMA (tutor ACCONCIA; co-tutor SODDU)

12:30 - 12:40 VARRICCHIO ROMUALDO (tutor DI MASI)

12:40 - 13:00 Concluding remarks of the Director of the PhD Programme

13:00 - 13:20 Awarding Ceremony

13:20 - 14:30 Lunch

14:30 - 16:30 Meeting of the "BIOMEDICAL SCIENCES AND TECHNOLOGIES" (STB) Scientific Board