



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

November 28th - 29th, 2019

Lecture hall 1, Department of Science, Viale G. Marconi 446, Rome

November 28th, 2019

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

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

Cell Physiology, Immunology and Pharmacology Session

Chairs: Prof. Marino, Prof. Affabris

9:15 - 9:40 VIRDIA ILARIA

“Rapid, inducible, and reversible p53 degradation in nontransformed human cells by knock-in of auxin-inducible degron tag” (tutors AFFABRIS-SODDU)

9:40 - 10:05 DI SEGNI MICOL

“HIPK2 as a prognostic biomarker in colorectal cancer” (tutors AFFABRIS-SODDU)

10:05 - 10:30 GIONFRA FABIO

“Integrin $\alpha\beta3$ -dependent functions in monocytes and microglia: modulation by thyroid hormones and the environmental pollutant BPA” (tutors MARINO-INCERPI)

10:30 - 10:55 SCHIAVI SARA

“Pharmacological studies on the neural substrates of social behavior in health and disease states” (tutor TREZZA)

10:55 - 11:20 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. Rampioni, Prof. Antonini

11:20 - 11:45 AIELLO ALESSANDRA

“Signal transduction and extracellular vesicles release induced by HIV-1 Nef protein on plasmacytoid dendritic cells” (tutor AFFABRIS)

11:45 - 12:10 BALDELLI VALERIO

“Antivirulence strategies against *Pseudomonas aeruginosa*” (tutor RAMPIONI)

12:10 - 12:35 MURGIA LORENZA

“Development of a new medical device for the diagnosis and management of Urinary Tract Infections (UTIs)” (tutor ANTONINI)

12:35 - 14:00 Lunch

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

Biochemistry and Cell Physiology Session

Chairs: Prof. Pallottini, Prof. Polticelli

14:00 - 14:20 MACARI GABRIELE

“Study of the structural bases of protein-ligand recognition for the development of novel bioinformatics tools for drug design” (tutor POLTICELLI)



14:20 - 14:40 SOLAR FERNÁNDEZ VIRGINIA

"Dissecting the molecular mechanisms at the root of Neuroglobin survival effect in estrogen-related breast cancers (tutors MARINO-FIOCCHETTI)

14:40 - 15:00 MONTALESI EMILIANO

"Biomedical implications of the modulation exerted by natural and synthetic molecules on Estrogen/Neuroglobin pathway" (tutor MARINO)

15:00 - 15:20 TONINI CLAUDIA

"Impact of perinatal exposure to drugs, pollutants, and diet-derived compounds on brain cholesterol metabolism: physio-pathologic implications" (tutor PALLOTTINI)

15:20 - 15:40 PECORARO GIOVANNI

"Molecular and functional characterization of the RNAs within the ribonucleoproteic complex Estrogen Receptor β (ER β) – Argonaute 2 (AGO2)" (tutor MARINO-WEISZ)

15:40 - 16:00 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. Visca, Prof. Leoni

16:00 - 16:20 PIROLO MATTIA

"Methicillin-resistant *Staphylococcus aureus* (MRSA) in intensive animal husbandry; public health implications" (tutor VISCA)

16:20 - 16:40 FORTUNA ALESSANDRA

"Studying the link between zinc starvation response and other global regulatory networks controlling *Pseudomonas aeruginosa* virulence" (tutor LEONI)

16:40 - 17:00 MELLINI MARTA

"Functional characterization of anti-virulence molecules targeting *Pseudomonas aeruginosa* quorum sensing" (tutor RAMPIONI)

17:00 - 17:20 GIANESSI FLAVIA

"Signaling and functions of extracellular vesicles transporting microbial molecules" (tutor AFFABRIS)

November 29th, 2019

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

Biochemistry and Cell Physiology Session

Chairs: Prof. Acconcia, Prof. di Masi

9:00 - 9:15 PASQUADIBISCEGLIE ANDREA

"Computational study of the structure and mechanism of action of membrane transporters involved in human diseases" (tutor POLITICELLI)

9:15 - 9:30 ALBANESI JACOPO

"Targeting the DNA damage response as a strategy for cancer treatment" (tutor DI MASI)

9:30 - 9:55 VITA GIAN MARCO

"Nitrobindins, editing for functions" (tutor ASCENZI)

9:45 - 10:00 BARTOLONI STEFANIA

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



10:00 - 10:15 D'ELIA ANNUNZIATA

"Study of new pharmacological targets for autism spectrum pathologies using innovative neuroimaging techniques applied to the conscious laboratory animal" (tutors TREZZA-MASSARI)

10:15 - 10:40 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. Imperi, Prof. Trezza

10:40 - 10:55 ARTUSO IRENE

"Genomics of *Acinetobacter baumannii* iron uptake" (tutor VISCA)

10:55 - 11:10 TESCARI MARCO

"A metagenomics and culturomics approach to unravel the structure, composition and dynamics of animal and environmental microbiota" (tutor VISCA)

11:10 - 11:25 SPINNATO MARIA CONCETTA

"Identification and functional characterization of novel essential protein in the human pathogen *Pseudomonas aeruginosa*" (tuotr IMPERI)

11:25 - 11:40 COLLALTO DILETTA

"Identification and characterization of anti-*Pseudomonas* compounds isolated from Lactic Acid Bacteria" (tutor LEONI)

11:40 - 11:55 PIMENTEL DE ARAUJO FERNANDA

"*Staphylococcus aureus*": rilevanza dei cloni e dei fattori di virulenza nelle osteomieliti (tutor VISCA-PANTOSTI)

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

Chairs: Prof. Ascenzi, Dr. Fiocchetti

11:55 - 12:05 CARBONE EMILIA

12:05 - 12:15 CRACCO PATRIZIO

12:15 - 12:25 LETIZIA MORGANA

12:25 - 12:35 PERUZZU DANIELA

12:35 - 12:45 PESCATORI SARA

12:45 - 12:55 TURRINI PAOLO

12:55 - 13:10 Concluding remarks of the Director of the PhD Programme

13:10 - 13:30 Awarding Ceremony

13:30 - 15:00 Lunch

15:00 - 16:30 Meeting of the "BIOMEDICAL SCIENCES AND TECHNOLOGIES" (STB) Scientific Board

NOTES

