



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

December 16th - 17th, 2020

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

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

Biochemistry and Cell Physiology Session

Chairs: Prof. Marino, Prof. Polticelli

9:15 - 9:40 MACARI GABRIELE

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

9:40 - 10:05 SOLAR FERNÁNDEZ VIRGINIA

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

10:05 - 10:30 MONTALESI EMILIANO

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

10:30 - 10:55 TONINI CLAUDIA

“Intergenerational impact of maternal exposure to pollutants, drugs, and diet-derived compounds on brain cholesterol metabolism” (tutor PALLOTTINI)

10:55 - 11:20 PECORARO GIOVANNI

“Molecular characterization of estrogen receptor beta functions in triple negative breast cancer” (tutor MARINO-WEISZ)

11:20 - 11:40 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. Affabris, Prof. Visca

11:40 - 12:05 PIROLO MATTIA

“Transmission dynamics of livestock-associated methicillin-resistant *Staphylococcus aureus* in Italy” (tutor VISCA)

12:05 - 12:30 FORTUNA ALESSANDRA

“Novel insights into the regulation of *Pseudomonas aeruginosa* virulence: from quorum sensing to the global regulator DksA” (tutor LEONI)

12:30 - 12:55 MELLINI MARTA

“Quorum sensing in the opportunistic human pathogen *Pseudomonas aeruginosa*: from the identification of anti-virulence drugs to the investigation of microbial social traits at the single cell level” (tutor RAMPIONI)

12:55 - 13:20 GIANESSI FLAVIA

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

13:20 - 14:20 Lunch



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

Biochemistry, Cell Physiology and Pharmacology Session

Chairs: Prof. Pallottini, Prof. di Masi

14:20 - 14:40 PASQUADIBISCEGLIE ANDREA

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

14:40 - 15:00 ALBANESI JACOPO

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

15:00 - 15:20 VITA GIAN MARCO

“Functional characterization of heme-binding proteins detoxification properties” (tutor ASCENZI)

15:20 - 15:40 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)

15:40 - 16:00 BARTOLONI STEFANIA

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

16:00 - 16:20 Coffee Break

Microbiology and Biotechnology Session

Chairs: Prof. Imperi, Prof. Leoni

16:20 - 16:40 ARTUSO IRENE

“Genomics of *Acinetobacter baumannii* iron uptake” (tutor VISCA)

16:40 - 17:00 TESCARI MARCO

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

17:00 - 17:20 SPINNATO MARIA CONCETTA

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

17:20 - 17:40 COLLALTO DILETTA

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

17:40 - 18:00 PIMENTEL DE ARAUJO FERNANDA

Staphylococcus aureus: Relevance of clones and virulence factors in osteomyelitis (tutor VISCA-PANTOSTI)

December 17th, 2020

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

Biochemistry, Cell Physiology and Pharmacology Session

Chairs: Prof. Acconcia, Prof. Trezza

9:30 - 9:45 CARBONE EMILIA

“Study of the correlation between the endocannabinoid system and neuroinflammation in preclinical models of autism” (tutor TREZZA)



9:45 - 10:00 CRACCO PATRIZIO

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

10:00 - 10:15 PESCATORI SARA

“Identification and characterization of kinases required for the control of ER α intracellular levels and E2-induced cell proliferation” (tutor ACCONCIA)

Microbiology and Biotechnology Session

Chairs: Prof. Antonini, Prof. Rampioni

10:15- 10:30 PERUZZU DANIELA

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

10:30 - 10:45 TURRINI PAOLO

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

10:45 - 11:00 LETIZIA MORGANA

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

11:00 - 11:20 Coffee Break

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

Chairs: Prof. Gasperi, Prof. Fiocchetti

11:20 - 11:30 BUZZELLI VALERIA

11:30 - 11:40 CAPECCHI GIULIA

11:40 - 11:50 CARUSO LORENZO

11:50 - 12:00 CERVONI MATTEO

12:00 - 12:10 PARENTE MARTINA

12:10 - 12:20 PIASTRA VALENTINA

12:20 - 12:30 RICCI DANIELA

12:30 - 12:45 Concluding remarks of the Director of the PhD Programme

12:45 - 13:00 Awarding Ceremony

13:00 - 14:30 Lunch

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