



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

November 14th - 15st, 2016

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

November 14th, 2016

8:45 - 9:00 Welcome and opening remarks of the Director of the PhD Programme Prof. Paolo Visca

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

Biochemistry and Cell Physiology Session

Chair: Prof. Paolo Ascenzi, Prof. Maria Marino

9:00 - 9:25 ALTOMONTE GIOVANNA

“Structural and functional characterization of globins in antarctic fish” (tutors ASCENZI-VERDE)

9:25 - 9:50 CARDINALE ANTONELLA

“Neuroprotective role of neuroglobin in Huntington's disease” (tutors MARINO-FUSCO)

9:50 - 10:15 SALVATI ANNAMARIA

“Analysis of the molecular mechanisms underlying the role(s) of microRNAs in breast cancer” (tutors MARINO-WEISZ)

Immunology and Pharmacology session

Chair: Prof. Elisabetta Affabris, Prof. Sandra Incerpi

10:15 - 10:40 CRUCIANI MELANIA

“Characterization of human primary dendritic cell response during infection with *Staphylococcus aureus* USA300, a methicillin resistant strain” (tutors AFFABRIS-COCCIA)

10:40 - 11:05 ROSSI ALESSANDRA

“Manipulation of tumor microenvironment as a strategy to fight cancer” (tutors AFFABRIS-BRACCI)

11:05 - 11:30 SERVADIO MICHELA

“Studying normal and atypical social behavior in animal models to shed light on social dysfunctions in psychiatric diseases” (tutor TREZZA)

11:30 - 11:50 Coffee Break

Microbiology and Biotechnology Session

Chair: Prof. Livia Leoni, Prof. Chiara Battocchio

11:50 - 12:15 ARMAS FEDERICA

“Use of protective cultures of lactic acid bacteria to control colonizing mastitis pathogens in the mammary gland of dairy small ruminants as an alternative to antibiotics” (tutors VISCA-MARIANELLI)

12:15 - 12:40 ROSSITTO MARTINA

“Individuation and evaluation of new bacteriophages for the treatment of cystic fibrosis lung infection caused by *Pseudomonas aeruginosa*” (tutors LEONI-FISCARELLI)



12:40 - 13:05 PORCARO FRANCESCO

“Metal nanoparticles as new radiosensitizers agents” (tutor POLZONETTI)

13:05 - 13:30 SIGNORELLI SARA

“Applying spectroscopy and nanotechnology for ultrasensitive detection and interaction of tumor suppressors and cancerous markers” (tutors BIZZARRI-CANNISTRARO)

13:30 - 14:30 Lunch

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

Biochemistry, Cell Physiology, and Immunology Session

Chair: Prof. Valentina Pallottini, Prof. Alessandra di Masi

14:30 - 14:45 CARTOCCI VERONICA

“Cholesterol metabolism in Autism Spectrum Disorders” (tutor PALLOTTINI)

14:45 - 15:00 CIPOLLETTI MANUELA

“Estrogen/neuroglobin pathway as pharmacological target for hormone-related cancer” (tutor MARINO)

15:00 - 15:15 LUCARINI VALERIA

“Dissecting Interleukin-33/ST2-dependent pathway in antitumor immune response to melanoma” (tutors AFFABRIS-SCHIAVONI)

15:15 - 15:30 MANFREDI FRANCESCO

“Immunogen design and delivery: a new method based on exosomes” (tutors AFFABRIS-FEDERICO)

The presentation of PENNISI ROSA (XXX PhD Programme STB, “Molecular aspects of DNA sensing and repair in cancer” (tutor DI MASI)) is postponed to December 20th, 2016, as she is currently abroad to work on her PhD project.

Microbiology and Biotechnology Session

Chair: Prof. Antonini, Prof. Paolo Visca

15:30 - 15:45 SAGRESTANI GIULIA

“Immunological characterization of novel adjuvants for generation of vaccines against pathogenic *Escherichia coli* strains” (tutors AFFABRIS-BUONSANTI-DESVAUX-GOBERT)

15:45 - 16:00 D'ANGELO FRANCESCA

“Generation of synthetic cells interfacing with bacterial pathogens for the development of innovative drug-delivery technologies” (tutor RAMPIONI)

16:00 - 16:15 GIALONARDI GIULIA

“Identification of anti-virulence drugs inhibiting the *Pseudomonas aeruginosa* quorum sensing system” (tutor LEONI)

16:15 - 16:35 Coffee Break

16:35 - 16:50 GIGLIUCCI FEDERICA

“Shiga-toxin-producing *Escherichia coli* (STEC): Evolution of the different pathogenic clones and study of their interactions with the microbiota in the intestine and the environment” (tutors VISCA-MORABITO)

16:50 - 17:05 RUNCİ FEDERICA

“*Acinetobacter baumannii* as human pathogen: host adaptation, pathogenicity and stress response” (tutor VISCA)



17:05 - 17:20 MONTEIRO RICARDO

“Identification of novel adhesins in pathogenic *Escherichia coli* strains as a strategy for preventing intestinal colonization” (tutors VISCA-DESVAUX-PEZZICOLI)

17:20 - 17:35 OLDRINI DAVIDE

“Well-defined glycoconjugate *via* chemo-enzymatic synthesis of oligosaccharides for structure-based selection of vaccine candidates” (tutors BATTOCCHIO-ADAMO)

17:35 - 17:50 STALIO OTTAVIA

“New applications of the Micro Biological Survey Method (MBS)” (tutor ANTONINI)



November 15th, 2016

XXXI PhD Programme STB (8 min presentation; 2 min discussion)

Biochemistry, Cell Physiology and Pharmacology Session

Chair: Prof. Fabio Polticelli, Prof. Filippo Acconcia

9:30 - 9:40 BRANDI VALENTINA

"Study of the ordered and disordered domains of Huntingtin" (tutor POLITICELLI)

9:40 - 9:50 TORTOSA VALENTINA

"Structure-function relationships in members of the Major Facilitator Superfamily Transporters" (tutor POLITICELLI)

9:50 - 10:00 DE SIMONE GIOVANNA

"Transient structural and functional properties of heme-carriers" (tutor ASCENZI)

10:00 - 10:10 BUSONERO CLAUDIA

"Selective modulation of the estrogen receptor alpha levels and degradation in the breast cancer" (tutor ACCONCIA)

10:10 - 10:20 SAGGESE PASQUALE

"Role of non-coding RNAs in breast cancer and other tumors" (tutor ACCONCIA-WEISZ)

10:20 - 10:30 SELBITTO ASSUNTA

"piRNAs: emerging biomarkers for diagnosis and prognosis" (tutor ACCONCIA-WEISZ)

10:30 - 10:40 MELANCIA FRANCESCA

"The endocannabinoid system as a new therapeutic target for the fragile X syndrome" (tutor TREZZA)

Microbiology and Biotechnology Session

Chair: Prof. Mariassunta Casalino, Prof. Giordano Rampioni

10:40 - 10:50 HIJAZI SARAH

"Virulence determinants in *Pseudomonas aeruginosa* for the development of antibacterial agents" (tutor VISCA-FRANGIPANI)

10:50 - 11:00 DE SABATO LUCA

"Novel approaches to investigate zoonotic infectious agents in animal reservoirs, food and the environment" (tutor AFFABRIS-DI BARTOLO)

11:00 - 11:10 SECCHI VALERIA

"Smart biomaterials for regenerative medicine: structural and biological properties" (tutor BATTOCCHIO)

11:10 - 11:30 Coffee Break

XXXII PhD Programme STB (6 min presentation; 2 min discussion)

Chair: Prof. Paolo Ascenzi, Prof. Paolo Visca

11:30 - 11:38 AIELLO ALESSANDRA

11:38 - 11:46 BALDELLI VALERIO

11:46 - 11:54 DI SEGNI MICOL

11:54 - 12:02 GIONFRA FABIO

12:02 - 12:10 MURGIA LORENZA



12:10 - 12:18 SCHIAVI SARA

12:18 - 12:26 VIRDIA ILARIA

12:26 - 12:35 **Concluding remarks of the Director of the PhD Programme Prof. Paolo Visca**

12:34 - 12:50 Awarding Ceremony

12:50 - 14:30 Meeting of the “BIOMEDICAL SCIENCES AND TECHNOLOGIES” (STB) Scientific Board