



*XII Seminar – PhD Day*  
**Happiness is a simple system**

July 15-16, 2021

Virtual Meeting  
organized by

ISTITUTO SUPERIORE DI SANITÀ  
Training Office

SAPIENZA UNIVERSITÀ DI ROMA  
Department of Public Health and Infectious Diseases

N° ID: 191D21-R

**Relevance**

The PhD Day represents a traditional, successful event in the activities of the PhD in Infectious diseases, microbiology and public health. The last meeting of PhD students in Infectious Diseases, Microbiology and Health has been strongly influenced by, and focused on the COVID-19 pandemic. The XII meeting tries to get out from the emergency, with invited talks dedicated to two aspects: happiness and simplicity/complexity. Happiness is intended as the including the comprehensive concept of well-being, while the contrasting simple/complex dichotomy is a paradigm of biological systems that requires both complex interactions and simple adaptive solutions.

**Objectives**

The event aims at encouraging sharing and spreading the PhD students' results and research projects. Their works will be presented as either oral communications or abstracts or posters. This will permit to a wide audience to get in touch with the most updated researches in the field.

**Structure**

As usual, the PhD students of the third year will present orally their results. In this edition, students at the second year will present in a virtual poster session their studies, while the abstracts of first year students studies are included in the "New research topics" section of the abstract book.

## PROGRAMME

### Thursday, July 15

9.00 Access to the platform

#### PRELIMINARY WELCOME

**Alfonso Mazzaccara**

Training Office, Istituto Superiore di Sanità, Rome, Italy

**Paolo Villari, Stefano D'Amelio**

Department of Public Health and Infectious Diseases, Sapienza University of Rome, Italy

#### SESSION I

Chairpersons: **Arianna Di Rocco, Ilaria Bernardini, Ilaria Bellini, Valentina Perri**

9.30 Lecture

*Complexity and networks in nature and medicine*

**Guido Caldarelli**

10.20 Lecture

*Leishmania and Wolbachia as immunomodulating agents. Perspectives for the development of novel platforms for vaccines*

**Claudio Bandi**

#### PHD CANDIDATES' COMMUNICATIONS (11.15-13.00)

*Intestinal permeability and microbial translocation during Coronavirus disease-19*

**Dania Al Ismail**

*Practical implementation of one health in vector-borne and emerging diseases*

**Laura Amato**

*Genotypic and phenotypic features of S. aureus involved in atopic dermatitis*

**Antonietta Lucia Conte**

*Epidemiology and clinical impact of airways colonisation from filamentous fungi in adult patients with cystic fibrosis*

**Marcello Di Paolo**

*Modulation of phenylalanine and tyrosine metabolism in HIV-1 infected patients with neurocognitive impairment: results from a clinical trial*

**Giuseppe Pietro Innocenti**

*Occurrence, distribution and ecology of Anopheles mosquitoes and risk of malaria re-emergence in Italy*

**Fabrizio Montarsi**

13.00 Break

## PHD CANDIDATES' COMMUNICATIONS (14.00-15.30)

*Determining the role of blood biomarkers, immune cells and tocilizumab as an effective immunomodulator during the course of COVID-19 pneumonia*

**Parni Nijhawan**

*Effect and modulation of Aspergillus fumigatus extracellular proteins*

**Anastasia Orekhova**

*The impact of Cytomegalovirus in multiple sclerosis: implications for natural killer cell repertoire*

**Valentina Perri**

*Entomological factors undermining the efficacy of insecticide treated bed nets in preventing malaria transmission: evidences from a longitudinal survey in a rural village of Burkina Faso*

**Eleonora Perugini**

*Small-RNA analysis from third-stage larvae and exosomes provides the first MiRNAs catalogue from anisakid nematodes*

**Antonella Pizzarelli**

*Bayesian statistical models to evaluate the efficacy of traditional and innovative mosquito control interventions*

**Chiara Virgillito**

## VIRTUAL POSTER SESSION (15.30-17.30)

*Inflammatory mechanisms in caco-2 cells stimulated with Anisakis-derived messengers of pathogenicity*

**Ilaria Bellini**

*Validation of a new molecular tool to study malaria transmission through the analysis of the Anopheles coluzzii mosquito*

**Giulia Bevivino**

*Epidemiology, risk factors and outcomes of infections caused by carbapenem-resistant gram-negative bacteria in paediatric population*

**Luigi Celani**

*New methods for measles diagnosis to use in natural infected and vaccinated individuals*

**Maedeh Kojouri**

*Monitoring mosquito vector populations in Djibouti city: evaluation of a new sampling method based on FTA-card*

**Sara Manzi**

*Endothelial cells activation in the pathogenesis of COVID-19 disease*

**Maria Claudia Miele**

*Investigating the impact of Schistosoma haematobium infection on immunity to Plasmodium falciparum malaria in sub-Saharan African populations*

**Mireille Ouedraogo**

*Development of in vitro lung cells to offer remarkable new model systems to study Merkel cell polyomavirus molecular biology and oncogenic mechanisms involved in malignancies other than Merkel cell carcinoma*

**Carla Prezioso**

*Characterization of the mucosa-associated microbiota and evaluation of its impact on TPH1 and SERT genes expression in CIPO patients*

**Giulia Radocchia**

*Molecular characterization and prevalence of protozoan and metazoan parasites infecting non-human primates in natural and captive conditions*

**Silvia Rondon**

*Infection prevalence and epidemiology in a cardiac surgery intensive care unit in Sudan*

**Ornella Spagnolello**

## **Friday, July 16**

9.00 Access to the platform

PRELIMINARY WELCOME

**Stefano D'Amelio**, Department of Public Health and Infectious Diseases, Sapienza University of Rome, Italy

### **SESSION II**

Chairpersons: **Livia Besi, Marco Tofani, Erika Renzi, Felice Marco Damato, Nicola Di Fazio**

9.30 Lecture

*Wearing my virtual body: behavioral, physiological and neural reactivities elicited by an embodied virtual avatar*

**Gaetano Tieri**

9.45 Lecture

*How the sense of body ownership shapes honesty: Evidence from behavioral, clinical and immersive virtual reality studies*

**Marina Scattolin**

10.10 Lecture

*Soft-drug abuse: a real well-being?*

**Stefania Schiavone**

10.45 Lecture

*The Missing Billion: Why health systems must include disabled people*

**Hannah Kuper**

PHD CANDIDATES' COMMUNICATIONS (11.20-13.00)

*Prevalence of musculoskeletal disorders in a large sample of Italian workers: occupational and health-related risk factors*

**Giovanna Adamo**

*Local policies for access to healthcare of migrants in Italy. Preliminary results from a subset of indicators monitoring regional implementation of national law*

**Valentina Pettinicchio**

*The quantitative relationship between Rorschach and WAIS-iv: pattern differences in IQ profiles*

**Felice Marco Damato**

*Review about application of law 24/2017 (Gelli) during the first four years since its entry in force and new application for pandemic COVID-19 from February 2020*

**Umberto De Gennaro**

*Multiple implications of post mortem computed tomography (PMCT) in the forensic approach to charred bodies*

**Massimiliano Dell'Aquila**

*From law to medical practice: application of law 219/2017 in real life*

**Vittorio Gatto**

*The effect of physical activity on mental health in patients with Alzheimer's disease*

**Shima Gholamalishahi**

13.00 Break

PHD CANDIDATES' COMMUNICATIONS (14.00-15.30)

*Use of hydrogen as a carrier gas and chemical ionizer for the determination of PCBs and PAHs in GC/NICI-MS*

**Ettore Guerriero**

*Sublethal effects on zebrafish embryos supporting human health protection*

**Ines Lacchetti**

*Anabolic Androgenic steroids (AAS) and organs damage study of Nandrolone toxicity on encephalus in an animal model*

**Angelo Montana**

*A national survey on global health education*

**Giulia Civitelli**

*Inhalation risk assessment to PM components of the sources contributions in polluted areas by high spatial resolution mapping*

**Eva Pietrantonio**

*Italy's preparedness for the Health Technology Assessment of genomic technologies*

**Erica Pitini**

*Microcystins: intestinal absorption and biotransformation study by reconstituted human tissues*

**Nicoletta Santori**

*Cytokine storm in COVID-19-related deaths: from SARS-CoV-2 RNA detection to immunohistochemical quantification of proinflammatory cytokines IL-1 $\beta$ , IL-6, IL-15 and TNF- $\alpha$*

**Alessandro Santurro**

*New synthetic opioids: development of analytical methods for their characterization and determination by means of (U)HPLC-HRMS/MS*

**Flaminia Vincenti**

VIRTUAL POSTER SESSION (15.30-17.30)

*Forensic application of monoclonal anti-human Glycophorin A antibody to establish vitality of the injuries*

**Benedetta Baldari**

*Violence against health workers: the impact on psychophysical well-being and working activity*

**Livia Besi**

*Survey on vaccine hesitancy and health literacy about vaccination among students' parents in a local health unit of Rome, Italy*

**Vito Cerabona**

*Telemedicine in cardiovascular area and chronic patient support. A new personalized medicine*

**Marta Chiappetta**

*Enhance primary care through family and community health nurses. Preliminary results of a systematic review*

**Angelo Cianciulli**

*COVID-19 health emergency and e-Learning: results from the health professional preparedness and response course of the Istituto Superiore di Sanità*

**Alessandra Di Pucchio**

*The experience of the SARS-CoV2 infection in the schools placed in the ASL Roma 3 territory*

**Arianna Di Rocco**

*Elevate to alleviate - evidence based nursing study*

**Nicola Ielapi**

*Use of big data in public health, a systematic review*

**Giuseppe Migliara**

*The relationship between poor sleep quality and depressive symptoms among nurses working night shifts*

**Chidiebere Emmanuel Okechukwu**

*The use of dermal filler in aesthetic medicine: issues concerning their use, legal aspects and need of information to share in the current pandemic period*

**Maria Giuseppina Onesti**

*Ambulance sanitification: a hygienic, legal and occupational medical challenge*

**Francesco Rosiello**

*The importance of being earnest: the role of autopsy in preventing litigation related to the management of liver and digestive disorders*

**Matteo Scopetti**

*Migrants people with disability in Europe: policies and challenges*

**Marco Tofani**



*Analysis of claims to predict loss eventuality for health facilities concerning future litigations*  
**Rocco Valerio Viola**

**KEYNOTE SPEAKERS and CHAIRPERSONS**

**Claudio Bandi** - Department of Biosciences, University of Milan, Italy

**Ilaria Bellini** - Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Ilaria Bernardini** - Department of Public Health and Infectious Diseases, Sapienza University of Rome; Department of Infectious Diseases, Italian National Institute of Health, Rome, Italy

**Livia Besi** - Department of Anatomical, Histological, Locomotor and Legal Medicine Sciences, Sapienza University of Rome, Rome, Italy

**Guido Caldarelli** - Department of Molecular Sciences and Nanosystems, University Ca' Foscari, Venice, Italy

**Felice Marco Damato** - Department of Anatomical, Histological, Locomotor and Legal Medicine Sciences, Sapienza University of Rome, Rome, Italy

**Nicola Di Fazio** - Department of Anatomical, Histological, Locomotor and Legal Medicine Sciences, Sapienza University of Rome, Rome, Italy

**Arianna Di Rocco** - Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Hannah Kuper** - International Centre for Evidence in Disability, London School of Hygiene & Tropical Medicine, UK

**Valentina Perri** - Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Erika Renzi** - Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Marina Scattolin** - Department of Psychology, Sapienza University of Rome, Italy

**Stefania Schiavone** - Department of Clinical and Experimental Medicine, University of Foggia, Italy

**Gaetano Tieri** - Virtual Reality Lab, Unitelma Sapienza, Rome; IRCCS Santa Lucia Foundation, Rome, Italy

**Marco Tofani** - Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Scientific Committee**

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### **Scientific Moderator**

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### **Technical Moderator**

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## **GENERAL INFORMATION**

### **Venue**

The Seminar will take place on Zoom online platform, at the link:

<https://uniroma1.zoom.us/j/86308263631?pwd=UzhZTEhnelZtTWc2M3E1U09WaVJXdz09>

(ID riunione: 863 0826 3631 - Passcode: 688017)

### **Target audience**

The Seminar is addressed to National Health Service, University and Research personnel and to PhD students of the School of Molecular Biology and Medicine.

### **Registration**

Participation is free of charge. Registration is not required.

A maximum of 500 participants will be admitted.

### **Satisfaction questionnaire**

Participants will be kindly requested to fill an online satisfaction questionnaire, available, at the end of the Seminar, on the PhD Seminars' web page.

### **Attendance certificate**

Participants willing an attendance certificate are kindly requested to apply for it to the Organizing Staff. Certifications will be provided to those who will be proved to have been logged on the platform for at least 75% of the entire duration of the Seminar.

**For any further information, please contact either the Scientific Staff or the Organizing Staff**