

Third annual meeting of the NAMUR RESEARCH POLE IN INFECTIOLOGY



Namur Research Pole in Infectiology

Wednesday December 18, 2019

University of Namur, Pedro Arrupe PA02

Invited speakers

Prof. Jan MICHIELS

Center for Microbiology VIB - KU Leuven

Dr. Olivier ESPELI

Center for Interdisciplinary Research in Biology (CIRB),
Collège de France, Paris

Dr. Michaël HERFS

Laboratory of Experimental Pathology, GIGA Cancer, ULiège

Prof. Leen DELANG

Laboratory of Virology and Chemotherapy, Rega Institute,
KU Leuven

Prof. Marius GILBERT

Spatial Epidemiology Lab (SpELL), ULB

**Program &
registration:**
www.narilis.be

Participation is
free, but
registration is
mandatory

Deadline for
registration and
abstract submission:
December 6

Best
communications
will be awarded!



09:45 *Welcome Coffee*

10:15 Introduction

10:20 **Mechanistic aspects of persistence in *Escherichia coli* and the evolution to antibiotic resistance**

Prof. Jan MICHIELS, Principal Investigator at Center for Microbiology VIB - KU Leuven

10:55 **AIEC LF82, a Crohn's disease associated bacterium, forms intracellular communities inside phagolysosomes of macrophages**

Dr. Olivier ESPELI, Principal Investigator at Center for Interdisciplinary Research in Biology (CIRB), Collège de France, Paris

11:30 **Deciphering how influenza A virus hijacks the host cellular translation machinery during cell infection** SHORT TALK

Vicharnee PHUENGPORNSAWAN, PhD student at Cell biology laboratory, UMon

11:45 Poster flash talks

12:10 *Lunch and poster session*

13:30 **HPV infection promotes bacterial vaginosis through E7-dependent impairment of antimicrobial peptide expression**

Dr. Michaël HERFS, Principal Investigator at Laboratory of Experimental Pathology, GIGA Cancer, ULiège

14:05 **Characterization of a new potential effector playing a role in the early control of Brucella infection in mice** SHORT TALK

Aurore DEMARS, PhD student at Research Unit in Biology of Microorganisms (URBM), UNamur

14:20 **Arbovirus infections: time to act, time to treat?**

Prof. Leen DELANG, Principal Investigator at Laboratory of Virology and Chemotherapy, Rega Institute, KU Leuven

14:55 *Coffee break*

15:25 **Heterogeneity of capsule production and virulence in multidrug-resistant *Acinetobacter baumannii* bacteria** SHORT TALK

Dr. Charles VAN DER HENST, Postdoc researcher at Research Unit in Biology of Microorganisms (URBM), UNamur; Junior Group Leader at Laboratory of fundamental and applied researches on multidrug-resistant bacteria, Center for Structural Biology VIB - VUB

15:40 **Improving cost-effectiveness of dog vaccination against rabies in Kinshasa** SHORT TALK

Eric KAZADI, PhD student at Integrated Veterinary Research Unit (URVI), UNamur; Faculty of Veterinary Medicine, University of Kinshasa

15:55 **Early signaling pathways induced in macrophages by *Mycobacterium tuberculosis* infection** SHORT TALK

Dr. Arnaud MACHELART, Postdoc researcher at Center for Infection and Immunity of Lille, Institut Pasteur de Lille

16:10 **The emergence of avian influenza, a « One Health » epitome »**

Prof. Marius GILBERT, Principal Investigator at Spatial Epidemiology Lab (SpELL), ULB

16:45 Closing remarks and awards

- ❖ **APOBEC3B-AS1 ncRNA : An unknown gene with an unknown function and a rare expression**
Florian POULAIN, PhD student at Integrated Veterinary Research Unit (URVI), UNamur
- ❖ **Infection by dermatophytes of reconstructed human epidermis is impaired by PD169316 via inhibition of fungal growth**
Dr. Emilie FAWAY, Postdoc researcher at Molecular Physiology Research Unit (URPhyM), Cell and Tissue Laboratory (LabCeTi), UNamur
- ❖ **Synthesis of Novel Multivalent Gold Nanoparticles**
Tao WANG, PhD student at Laboratory of Bio-Organic Chemistry (CBO), UNamur
- ❖ **Interactions between Influenza A virus NS1 protein and Human ubiquitin-proteasome system**
Laurie-Anne LAMOTTE, PhD student at Cell biology laboratory, UMon
- ❖ **Biofilm formation and matrix constituents of *S. aureus* clinical isolates collected from persistent or recurrent infections in Vietnam**
Khac Tiep NGUYEN, PhD student at Cellular and Molecular Pharmacology, Louvain Drug Research Institute, UCLouvain; Hanoi University of Pharmacy, Vietnam
- ❖ **Disulfide bond formation in *Brucella abortus* periplasm**
Caroline SERVAIS, PhD student at Research Unit in Biology of Microorganisms (URBM), UNamur
- ❖ **Biosynthetic adaptations and morphological alterations of *Brucella abortus* inside host cells**
Agnès ROBA, PhD student at Research Unit in Biology of Microorganisms (URBM), UNamur
- ❖ **Study of the mechanisms leading to mitochondrial fragmentation during the late steps of *Brucella abortus* infection**
Jérémy VERBEKE, PhD student at Laboratory of Cellular and Molecular Biology (URBC), UNamur
- ❖ **Development of a multiplex real time PCR for the detection of virulent *Capnocytophaga canimorsus* in dogs**
Dr. Francesco RENZI, Principal Investigator at Research Unit in Biology of Microorganisms (URBM), UNamur
- ❖ **Evaluation of biocides for the degradation of DNA in biological liquid waste, with the aim to prevent the release of Antibiotic Resistance Genes (ARG) in Wastewater**
Boutaina HABIB, PhD student at Laboratory of Cellular and Molecular Biology (URBM), UNamur
- ❖ **Characterization of the molecular mechanisms controlling negative chemotaxis to Cu in *Caulobacter crescentus***
Gwennaëlle LOUIS, PhD student at Research Unit in Biology of Microorganisms (URBM), UNamur

❖ **An antique origin for measles**

Dr. Sebastian LEQUIME, Postdoc researcher at Laboratory for Clinical and Epidemiological Virology, Rega Institute, KU Leuven

❖ **Metabolic Glycoengineering using with “Copper-free “reactions: a strategy to label the bacterial cell wall**

Marine LACRITICK, PhD student at Laboratory of Bio-Organic Chemistry (CBO), UNamur

❖ **Remote sensing for malaria epidemiology in African cities**

Prof. Catherine LINARD, Principal Investigator at Department of Geography, UNamur