

2ND ANNUAL MEETING OF THE
Namur Research Pole in Infectiology



Namur Research Pole in Infectiology

Friday November 30, 2018

University of Namur,
Business & Learning Center (Agora)



PROGRAM

9:00 Introduction by Dr. Charles Van der Henst

Bacterial Infectious diseases

Moderators: Dr. Charles Van der Henst & Prof. Nathalie Kirschvink

9:10 **Dictyostelium as a versatile host model to study conserved mechanisms of cell-autonomous immunity to (myco)bacteria infections** KEYNOTE LECTURE

Prof. Thierry SOLDATI

University of Geneva, Department of Biochemistry, Switzerland



9:50 **Single-cell analysis of E. coli persistence to ofloxacin**

Prof. Laurence VAN MELDEREN

Université libre de Bruxelles, Cellular and Molecular Microbiology



10:20 **Capsular serovars of virulent Capnocytophaga canimorsus are shared by the closely related species C. canis and C. cynodegmi** SHORT TALK

Dr. Francesco RENZI

University of Namur, Research Unit in Biology of Microorganisms (URBM)



10:35 **Characterization of the molecular mechanisms controlling negative chemotaxis to Cu in Caulobacter crescentus** SHORT TALK

Gwennaëlle LOUIS

University of Namur, Research Unit in Biology of Microorganisms (URBM)



10:50 *Coffee break*

11:20 **Single-cell approaches towards understanding bacterial persistence to antibiotics**

Dr. Neeraj DHAR

Swiss Federal Institute of Technology in Lausanne (EPFL), School of Life Sciences, Switzerland



Fungal & Parasitic Infectious diseases

Moderator: Prof. Xavier De Bolle

11:50 **APOLs : from Trypanosoma lysis to kidney disease**

Dr. Sophie UZUREAU

Université libre de Bruxelles, Institute of Molecular Biology and Medicine (IBMM), Laboratory of Molecular Parasitology



12:20 **Trichophyton rubrum infection on reconstructed human epidermis induces simultaneous epidermal barrier disruption and keratinocytes activation** SHORT TALK

Dr. Émilie FAWAY

UNamur, Molecular Physiology Research Unit (URPhyM)



12:35 Poster flash presentations

12:55 Group picture

13:00 Lunch & poster session

Viral Infectious diseases

Moderators: Prof. Nicolas Gillet & Prof. Benoît Muylkens

14:00 **Stress-induced unfolded protein response contributes to Zika virus-associated microcephaly**

Dr. Laurent NGUYEN

University of Liège, GIGA Neurosciences, Laboratory of Molecular Regulation of Neurogenesis



14:30 **Immune imprinting of the host immune system by persistent viral infections**

Prof. Laurent GILLET

University of Liège, Laboratory of Immunology-Vaccinology



15:00 **Helminth-induced interleukin-4 expands bystander memory CD8+ T cells for early control of viral infection** SHORT TALK

Marion ROLOT

University of Liège, Laboratory of Immunology-Vaccinology



15:15 Coffee break

Moderators: Prof. Benoît Muylkens & Prof. Stéphane Vincent

15:45 **Telomeres and infection with herpesviruses in human and animals**

Prof. Benedikt KAUFER

Freie Universität Berlin, Institute of Virology, Germany



16:15 **Viral genome shaping by APOBEC3s cytidine deaminase restriction** SHORT TALK

Florian POULAIN

UNamur, Integrated Veterinary Research Unit (URVI)



16:30 **Combining confocal and atomic force microscopy to quantify single-virus binding to mammalian cell surfaces**

Prof. David ALSTEENS

Université catholique de Louvain, Louvain Institute of Biomolecular Science and Technology (LIBST), NanoBiophysics lab



17:00 Concluding remarks

POSTERS

Bacterial Infectious diseases

Footrot: study the infection of sheep's skin by *Dichelobacter nodosus* using a reconstructed sheep epidermis

Nicolas BURTON

UNamur, Integrated Veterinary Research Unit (URVI)



Outer membrane and peptidoglycan interactions in *Brucella abortus*

Pierre GODESSART

UNamur, Research Unit in Biology of Microorganisms (URBM)



Biosynthetic adaptations of *Brucella abortus* inside host cells

Agnès ROBA

UNamur, Research Unit in Biology of Microorganisms (URBM)



Unravelling surface lipoprotein export in *Bacteroidetes*

Dr. Jean-François STERNON

UNamur, Research Unit in Biology of Microorganisms (URBM)



Isoniazid bactericidal activity involves energetic perturbation

Sheng ZENG

ULB, Microbiology, Bioorganic & Macromolecular Chemistry Research Unit



Host-dependence of *in vitro* reassortment dynamics among Simbuviruses related to Schmallerberg virus

Damien COUPEAU

UNamur, Integrated Veterinary Research Unit (URVI)



Deciphering the molecular mechanism of herpesvirus attachment to living cells

Martin DELGUSTE

UCL, Louvain Institute of Biomolecular Science and Technology (LIBST),
NanoBiophysics lab



Interactions between Influenza A virus NSI protein and Human ubiquitin-proteasome system

Laurie-Anne LAMOTTE

UMons, Cell Biology Lab



Epigenetic regulation of the viral telomerase RNA subunit promoter over-expressed during Marek's Disease Virus induced oncogenesis

Srđan PEJAKOVIĆ

UNamur, Integrated Veterinary Research Unit (URVI)



Deciphering how influenza A virus hijacks the host cellular translation machinery during cell infection

Vicharnee PHUENGPORNSAWAN

UMons, Cell Biology Lab



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