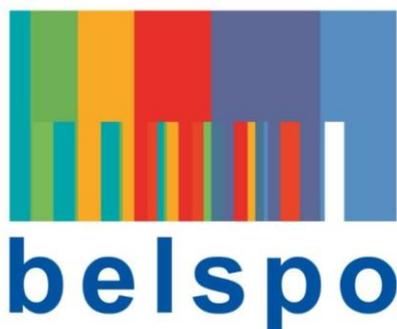


Program of the symposium on “Antimicrobial drug discovery”

Proposal as a new FNRS contact Group



**Université libre de Bruxelles (ULB), Campus La Plaine, building NO,
Room Solvay, 5th floor- March 13th, 2026**

Organizers: Véronique FONTAINE (ULB) and Carine VAN LINT (ULB)

Scientific committee : Gilles Darcis (ULiège), Véronique Fontaine (ULB), Benoît Muylkens (UNamur), Julien Olivet (KULeuven), Damien Thiry (ULiège), Françoise Van Bambeke (UCLouvain), Carine Van Lint (ULB), Stéphane Vincent (UNamur)

- 8 :30-9 :00 : Welcome
- 9:00-9:05: Welcome by Carine Van Lint and Véronique Fontaine (ULB)
- 9:05-9:35: “Therapeutical strategies to tackle antimicrobial resistance and infection” **by Dr. Jayanta Haldar (JNCASR, Bangalore India)**

Session : Innovative strategies to tackle bacteria and other microorganisms (Chairs: Françoise Van Bambeke and Antoine Dutilleul)

- 9:35-10:05: “New strategies to target *A. baumannii*” **by Dr. Charles van der Henst (VIB-VUB)**
Short presentations
- 10:05-10:20: “*M. tuberculosis* GroEL1, a target against stress adaptation and drug tolerance” **by Véronique Fontaine (ULB)**
- 10:20-10:35: “Cyanobacteria as a source of new bioactive metabolites” **by Maria Christodoulou (ULiège)**

10:35-11:00 : Coffee break and poster session on Innovative strategies to tackle bacteria

Short presentations

- 11:00-11:15: Reviving antibiotic potency: Pharmacological Assessment of JS238 a newly designed potentiator against *P. aeruginosa* **by Rasouli Paria (UCL)**
- 11:15-11:30: “Phages as innovative adjuvants of antibiotic therapy versus lung infections in patients with cystic fibrosis” **by Antoine Glorieux (UCL)**

Session: Innovative antimicrobial surface (Chairs Franck Meyer and Dmytro Strilets)

- 11:30-12:00: “Investigation of the antibacterial and antiviral properties of PVD coatings and a development of high-throughput screening viral titration assay” **by Dr. Valentin Job (UNamur)**

Short presentation

- 12:00-12:15: “Dual Action Mechano-Metabolic Inhibition of Pathogens in Fluoride Doped Bone Grafts” **by Carla Arca Garcia (UCL)**

- 12:15-12:45: “Smart Biomaterials for tackling infection” by **Dr. Jayanta Haldar (JNCASR, Bangalore India)**

12:45 -13:30 : **Lunch** (at “La Maison de l’UAE” and poster session on Innovative strategies to tackle virus

- 13:30-14:00: “Discovery of new antimicrobials - Beyond Bedaquiline: role of AI” by **Dr. Anil Koul (Johnson & Johnson)**

Session : Innovative strategies to tackle virus (Chairs: Carine Van Lint and Damien Thiry)

- 14:00-14:30: “Impact of antiretroviral therapy on HIV latent reservoir” by **Dr. Gilles Darcis (ULiège)**
- 14:30-15:00: “Molecular mechanisms of HIV-1 latency: implications for innovative therapeutic strategies” by **Maryam Bendoumou (ULB)**
- 15:00-15:30: “Modeling host-pathogen interactions in the presence of catalytic activity” by **Bortolo Mognetti (ULB)**

15:30-16:00 : **Coffee break** and poster session on Innovative strategies to tackle bacteria

Short presentations

- 16:00-16:15: “Molecular mechanisms of the CD8+ T cell-mediated non-cytolytic silencing of HIV-1 transcription” by **Antoine Dutilleul (ULB)**
- 16:15-16:30: “BRD4 modulators in combination with LEDGINs additively block-and-lock HIV-1 transcription” by **Eline Pellaers (KUL)**
- 16:30-16:45: “Genome evolution and pathogen vulnerability in wildlife: Implications for Conservation and Pandemic Preparedness” by **Richard Muvunyi (ULiège)**
- 16:45-17:00: “Role of the *pol* gene enhancer in HIV-1 transcription and replication in myeloid infected cells” by **Tristan Marray (ULB)**
- 17:00-17:15: “Longitudinal virological profiling reveals archived proviral DNA resistance mutations causing failure to long acting cabotegravir/rilpivirine: a case report” by **El Moussaoui Khalid (CHU Liège)**

Friendship drink at the “La Maison de l’UAE” 😊

Poster program

In Bacteriology

- “Micro-CT monitors of severe lung pathology in a new preclinical *M. avium* mouse model using hypervirulent clinical strains” by **Tine Van Win (KUL)**
- “Synergistic Approaches for Combating Pathogen *Acinetobacter baumannii*: Dynamic Constitutional Frameworks and Pillararene-based Self-assembled Drug Delivery Systems” by **Dmytro Strilets (UNamur)**
- “Green synthesis of silver nanoparticles using Congolese plant extracts for the treatment of intracellular bacterial infections” by **Luzala Mukande Miryam (UCL)**
- “Synthesis of glycomimetics designed as inhibitors of bacterial Kdo-processing enzymes” by **Rym Yahia Boudhar (UNamur)**
- “Multivalent sialic acid porphyrin-based glycoclusters as potent inhibitors against SARS-CoV-2 infection” by **Vivian Lioret (UNamur)**

In Virology

- “Development and application of alveolar organoids as in vitro research tools for respiratory infection” by **Elle de Pauw (KUL)**
- “Role of the cellular factor BCL11b in the transcriptional regulation of HTLV-1” by **Loris Greguor (ULB)**

- “Impact of the cellular factor UHRF1 on the transcriptional regulation of Human T-cell Leukemia Virus type 1 (HTLV-1)” by **Karim Peeters (ULB)**
- “Role of the *pol* gene enhancer in HIV-1 transcription and replication in myeloid infected cells” by **Tristan Marray (ULB)**
- “UHRF1 regulates multiple layers of HIV-1 expression, from epigenetics to post-transcriptional events” by **Lisa Pulosio (ULB)**
- “Molecular mechanisms of the CD8+ T cell-mediated non-cytolytic silencing of HIV-1 transcription” by **Antoine Dutilleul (ULB)**
- “Identification of the cellular transcription factor KLF16 as a new HIV-1 silencing factor” by **Maryam Bendoumou (ULB)**
