

PhD Student Day

University of Namur - S01 auditorium



Programme

08:15 – 09:00	Welcome & Registration
09:00 – 09:05	Introduction Prof. Henri-François Renard
09:05 – 10:35	Short talks 1-5
10:35 – 11:30	Poster session (odd numbers)
11:30 – 13:00	Short talks 6-10
13:00 – 14:00	<i>Lunch</i>
14:00 – 15:30	Short talks 11-15
15:30 – 16:25	Poster session (even numbers)
16:25 – 17:55	Short talks 16-20
17:55 – 18:00	Awards & Closing remarks Prof. Thierry Arnould

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SEPTEMBER
2025



Local organizers : Prof. Thierry Arnould and Prof. Henri-François Renard

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PROGRAMME

09:00 – 09:05 INTRODUCTION

Prof. Henri-François RENARD, UNamur

Chair: Prof. Henri-François RENARD, UNamur

09:05 – 10:35 SESSION 1

SHORT TALK 1 Contribution of ventral spinal interneurons to the etiopathogenesis of Amyotrophic Lateral Sclerosis

Luca GOFFIN, UCLouvain (promoter: Prof. Frédéric CLOTMAN)

SHORT TALK 2 Establishment of a complete repertoire of V2 interneurons during spinal cord development in the mouse at single-cell transcriptomic resolution

Jingwen ZHANG, UCLouvain (promotor: Prof. Frédéric CLOTMAN)

SHORT TALK 3 HOXA5 importance in the precerebellar system: behavioral impact of postnatal inactivation and cerebellar projections mapping

Hadrien GLIBERT, UCLouvain (promoter: Prof. Françoise GOFFLOT)

SHORT TALK 4 Non-invasive in vivo imaging of structural and synaptic integrity after traumatic spinal cord injury

Claudia SCHRAUWEN, UNamur / UAntwerp (promoters: Prof. Charles NICAISE / Prof. Daniele BERTOGLIO)

SHORT TALK 5 Passive transfer of IgG from patients with neuro-long COVID triggers sensory impairment by targeting sensory neurons

Margaux MIGNOLET, UNamur (promoter: Prof. Charles NICAISE)

10:35 – 11:30 POSTER SESSION (odd numbers)

Chair: Prof. Alison FORRESTER, UNamur

11:30 – 13:00 SESSION 2

SHORT TALK 6 Targeting resistance mechanisms to improve class II bacteriocin efficacy against *Staphylococcus aureus*

Denis DEREINNE, UCLouvain (promoter: Prof. Pascal HOLS)

SHORT TALK 7 Conversion of a DD-peptidase into a beta-lactamase by directed evolution under optimized safety conditions

Martin DESMET, UCLouvain (promoter: Prof. Patrice SOUMILLION)

SHORT TALK 8 Impact of the SARS-CoV-2 spike protein N-glycosylation profile on its binding to the human ACE2 receptor

Marie PEETERS, UCLouvain (promoter : Dr. Catherine NAVARRE and Prof. François CHAUMONT)

SHORT TALK 9 The SARS-COV-2 cytoplasmic tail story: Biophysical Approach to Understanding of SARS-CoV tropism

Bhanupriya PANIGRAHI, UCLouvain (promoter: David ALSTEENS)

SHORT TALK 10 Rapid urbanization and health trade-offs: Mapping mosquito-borne disease risks with spatial-MCDA in urban Kenya

Noel Kanani JOSEPH, UNamur (promoter: Prof. Catherine LINARD)

13:00 – 14:00 LUNCH

Chair: Prof. Pierre MORSOMME, UCLouvain

14:00 – 15:30 SESSION 3

SHORT TALK 11 Comparative analysis of mitochondrial dysfunction during aging in two killifish strains with divergent lifespans

Julien LEHMANN, UCLouvain (promoter: Prof. Melissa PAGE)

SHORT TALK 12 Function of TMEM165 in the Golgi proton homeostasis

Marie-Odile VELINGS, UCLouvain (promoter: Prof. Pierre MORSOMME)

SHORT TALK 13 Role of the Golgi-localized TMEM165 protein on cancer cell migration

Andréa BLERET, UCLouvain (promoter: Prof. Pierre MORSOMME)

SHORT TALK 14 Is Endophilin-A3 a Key Player in N-Cadherin Internalization and Glioblastoma Progression?

Emilie RIGAUX, UNamur (promoter: Prof. Henri-François RENARD)

SHORT TALK 15 Identification of novel genetic drivers of treatment resistance in glioblastoma multiforme to improve targeted therapies

Hortence PAREE, UNamur (promoter: Prof. Carine MICHIELS)

15:30 – 16:25 POSTER SESSION (even numbers)

Chair: Prof. Thierry ARNOULD, UNamur

16:25 – 17:55 SESSION 4

SHORT TALK 16 Development of personalized neutron capture therapy using theranostic carriers

Eloïse RAPPORT, UNamur / ULB (promoters : Prof. Carine MICHIELS / Dr. Sébastien PENNINCKX)

SHORT TALK 17 Replication targeting by the Tn3-family replicative transposon: The role of positive supercoiling

Loïc CODEMO, UCLouvain (promoter: Prof. Bernard HALLET)

SHORT TALK 18 Biochemical characterization of human pyroglutamyl peptidase (PGPEP1)

Romain DESCHRYVER, UCLouvain (promoters: Prof. Patrice SOUMILLION and Prof. David ALSTEENS)

SHORT TALK 19 Does endoreduplication play a role in Nicotiana tabacum long glandular trichomes development?

Manon PEETERS, UCLouvain (promoter: Prof. Charles HACHEZ)

SHORT TALK 20 Conversion of an allosteric homodimer into an asymmetric complex

Chloé VANHEMMESEEL, UCLouvain (promoters: Prof. Patrice SOUMILLION and Prof. Pascal HOLLS)

17:55 – 18:00 AWARDS & CLOSING REMARKS

Prof. Thierry ARNOULD, UNamur

POSTER PRESENTATIONS

POSTER SESSION AM	POSTER SESSION PM
<p>POSTER 1 An Unconventional Golgi Degradation Pathway Revealed by Rsp5-Dependent Ubiquitylation Celia ALONSO, UCLouvain (promoter: Prof. Pierre MORSOMME)</p>	<p>POSTER 2 Intraspecies communication through peptide pheromones in <i>salivarius streptococci</i> Mathilde AUBRY, UCLouvain (promoter: Prof. Pascal HOLLS)</p>
<p>POSTER 3 Investigating the impact of HOXA5 protein stability on synaptogenesis, using differentiated P19 neurons and proximity labeling based interactor screening Manel BERKEMAL, UCLouvain (promoter: Prof. Françoise GOFFLOT)</p>	<p>POSTER 4 Towards an Ultra-Conserved Element (UCE) interactome: Studying uc.212 Celia BRAND, UCLouvain (promoter: Prof. René REZSOHAZY)</p>
<p>POSTER 5 Nanotopography mechanotransduction by Cdc42 Rho GTPase and BAR domain proteins Alix BURIDANT, UNamur (promoter: Prof. Henri-François RENARD)</p>	<p>POSTER 6 Prevalence of abnormal pTau217 in Ageing Adults and implication of abnormal pTau217 on survival and autonomy outcomes at 8 Years of Follow-Up Emma CALLUY, UNamur / ULiège (promoters : Prof. Charlotte BEAUDART / Prof. Aurélie LADANG)</p>
<p>POSTER 7 Anoxic conditions alter the phage receptor landscape and shape phage susceptibility in <i>Staphylococcus aureus</i> Félicie CHAUMONT, UCLouvain (promoters: Prof. Annika GILLIS and Prof. David ALSTEENS)</p>	<p>POSTER 8 The stability of the HOXA1 transcription factor as a determinant in the control of cardiac development Emma DE JONGE, UCLouvain (promoter: Prof. René REZSOHAZY)</p>
<p>POSTER 9 Calnexin and Calreticulin ER chaperones in N-glycosylation pathway of proteins: Impacts of chaperones under- and over-expression in <i>Nicotiana tabacum</i> BY-2 cells and <i>Chlamydomonas reinhardtii</i> Jules DELASALLE, UCLouvain (promoter : Prof. François CHAUMONT)</p>	<p>POSTER 10 The O-Chain Biosynthesis: Unveiling the Enzymes Behind O-Chain Synthesis in <i>Brucella abortus</i> Kejsi DERVISHI, UNamur (promoter: Prof. Xavier DE BOLLE)</p>
<p>POSTER 11 Unraveling the entry mechanisms of bacteriophage K into epithelial cells Savannah EECKHOUT, UCLouvain (promoters: Prof. David ALSTEENS and Prof. Annika GILLIS)</p>	<p>POSTER 12 Regulation of aquaporin expression by NAC and HSF transcription factors Jean FONTAINE, UCLouvain (promoter: Prof. François CHAUMONT)</p>

POSTER 13 Investigating the molecular mechanism of meiotic crossover formation.
Veronica GONZALEZ
(promoter: Prof. Corentin CLAEYS BOUUAERT)

POSTER 14 Diversity of root system architecture and aquaporin in response to low nitrogen in maize landraces
Joséphine GUYOT, UCLouvain
(promoter: Prof. François CHAUMONT and Prof. Xavier DRAYE)

POSTER 15 The impact of sexual reproduction on cancer transmission via the placenta
Larissa HANOTEAUX, UNamur
(promoters: Prof. Olivier DE BACKER & Prof. Marc HENNEQUART)

POSTER 16 Deciphering Endophilin-A3-Mediated Unconventional Endocytosis
Dorian HENE, UNamur
(promoter: Prof. Henri-François RENARD)

POSTER 17 Biosynthetic toolboxes for the extraction of radionuclides
Gil JOSSE, UNamur / SCK CEN
(promoter: Prof. Jean-Yves MATROULE)

POSTER 18 Unraveling the Role of P1B1-Type ATPase in Copper Delivery to *cbb3*- and *aa3*-Type Cytochrome c Oxidases in Free-Living *Caulobacter crescentus*
Hala KASMO, UNamur
(promoter: Prof. Jean-Yves MATROULE)

POSTER 19 Purification and comparative analysis of plant cells autophagosomes' proteome
Jérôme KOESTEL, UCLouvain
(promoter: Prof. Henri BATOKO)

POSTER 20 Deciphering the molecular mechanism of mammalian meiotic DNA double-strand break formation.
Manon LENOIR, UCLouvain
(promoter: Prof. Corentin CLAEYS BOUUAERT)

POSTER 21 Characterization of the assembly of the meiotic dna double strand break machinery by atomic force spectroscopy
Karen MECHLEB, UCLouvain
(promoter: Prof. Corentin CLAEYS BOUUAERT)

POSTER 22 Study of the link between calcium, manganese and protein glycosylation in the Golgi apparatus
Louis OPFERGELT, UCLouvain
(promoter: Prof. Pierre MORSOMME)

POSTER 23 Heavy metal resistance in *Caulobacter vibrioides* is regulated by Iron concentration and requires an ABC transporter
Chloé PIETTE, UNamur
(promoter: Prof. Jean-Yves MATROULE)

POSTER 24 Regulation network connecting cell wall integrity and competence in *salivarius streptococci*
Louise PIGEOLET, UCLouvain
(promoter: Prof. Pascal HOLS)

POSTER 25 Adenoviral infection of lymphocytes promotes the expression of the APOBEC3G innate effector
Aurélien PINCHART, UNamur / UMONS
(promoters: Prof. Nicolas GILLET and Prof. Lionel TAFFOREAU)

POSTER 26 Spontaneous and induced amyloid-beta peptide localization and its effect on mitochondrial function during brain aging using *Nothobranchius furzeri* as a model
Yusuf Kaan POYRAZ, UCLouvain
(promoter: Prof. Melissa PAGE)

POSTER 27 Recruitment of Mre11 to recombination sites during meiosis
Priyanka PRIYADARSHINI, UCLouvain
(promoter: Prof. Corentin CLAEYS BOUUAERT)

POSTER 28 Dual interactions between Hop1 and Mer2 tunes the genome-wide distribution of the meiotic DNA double-strand break machinery
Taniya ROY, UCLouvain
(promoter: Prof. Corentin CLAEYS BOUUAERT)

POSTER 29 Investigating the effect of glycation on lamin proteins using nanobiophysics approaches
Angelica SALINAS-TORRES, UCLouvain
(promoter: Prof. Andra C. DUMITRU)

POSTER 30 Insights into in vivo assembly of Tn3-family transposition complex
Marius SWINNEN, UCLouvain
(promoter: Prof. Bernard HALLET)

POSTER 31 Does the radiation LET affect the immunogenicity of cancer cells?
Manon VAN DEN ABBEEL, UNamur
(promoter: Prof. Carine MICHIELS)

POSTER 32 Deciphering HOXA5 functions in postnatal neurons: ChIP Seq mapping and SOX2 mediated modulation
Amandine VANDENBERGHE, UCLouvain
(Prof. Françoise GOFFLOT)

POSTER 33 Inhibition of transgene silencing in *Nicotiana tabacum* BY-2 cells via RDR gene inactivation and targeted demethylation
Romane VANDEVELDE, UCLouvain
(promoter: Prof. François CHAUMONT)

POSTER 34 Towards a Core Outcome Set for sarcopenia intervention studies: Patient perspectives from semi-structured interviews
Sophie VAN HEDEN, UNamur
(promoter: Prof. Charlotte BEAUDART)

POSTER 35 Identification of a new travelling oncoprotein associated with poor prognosis in high grade gliomas
Eric VIGNEUL, UCLouvain
(promoter: Prof. Frédéric CLOTMAN)

POSTER 36 Understanding the role of AGAMOUS-LIKE, a regulator of glandular trichome development in *Nicotiana tabacum*.
Gabriel WALCKIERS, UCLouvain
(promoter: Prof. Charles HACHEZ)

POSTER 37 Influence of Brewing Parameters on the Extraction of α -Glucosidase Enzyme from Hops in Beer
Guillaume WILLEMART, UCLouvain
(promoter: Prof. Sonia COLLIN)

POSTER 38 Validation of human neutrophil isolation: viability, purity and activation as quality criteria
Hachem BOUARROUDJ, UNamur
(promoter: Prof. Jonathan DOUXFILS)

POSTER 39 Patient preferences regarding menopausal symptoms and treatments: a systematic review of quantitative stated preferences studies
Lucie RASKIN, UNamur
(promoters: Prof. Jonathan DOUXFILS and Prof. Charlotte BEAUDART)
