

22.05.2025

Annual Meeting

# NAMUR CANCER RESEARCH POLE

University of Namur, Pedro Arrupe, PA02 auditorium

PROGRAMME

08:15 *Welcome coffee*

09:00 Introduction



## CANCER METABOLISM

09:05 **Metabolic signaling driving cancer metastasis**

**Prof. Sarah-Maria FENDT**, Laboratory of Cellular Metabolism and Metabolic Regulation, VIB-KU Leuven

09:50 **Identification of targetable metabolic adaptations in drug tolerant BRAF<sup>V600E</sup> mutant non-small cell lung cancer**

**Marine HEMMER**, Laboratory of Tumor and Development Biology, GIGA-Cancer, ULiège

10:05 **The fatty connection of telomeres**

**Amélie DERUMIER**, Genetic & Epigenetic Alterations of Genomes, de Duve Institute, UCLouvain

10:20 *Sponsor talks (5')*

**Discover a whole new dimension with the new BD FACSDiscover™ A8 Cell Analyzer with Real-Time Imaging**

**Stefano BONELLI**, Product Manager Research BD Biosciences

**Isogen Life Science, Making your research happen**

**Noria KABAGWIRA**, Business Development Manager at Isogen Life Science

**Empowering Discovery – Advancing Cell Therapy**

**Ruben BEUK**, Marketing Manager at Miltenyi Biotec

**Seqalis, Fostering progress in Oncology**

**Jean-Luc HENRIOUL**, Chief Operating Officer at Seqalis

10:40 *Coffee break*

- 11:10 **Targeting oncogene-induced metabolic vulnerabilities in lung cancer**  
**Dr. Arnaud BLOMME**, Laboratory of Metabolic Regulation, GIGA Institute, ULiège
- 11:55 **Vitamin B2 depletion induces stress and 2HG-dependent metabolic remodelling in cancer cells**  
**Ying Thong LOW**, Francis Crick Institute, UK
- 12:10 **The role of DNA oxidative damage in cancer mutagenesis: insights from vertical ionization potential analysis**  
**Benoît DE WITTE**, Computational Biology and Bioinformatics, ULB
- 12:25 **A cellular and molecular perspective on adult acinar cell proliferation in pancreatic tissue regeneration and disease**  
**Dr. Jonathan BALDAN**, Translational Oncology Research Center, VUB
- 12:40 *Lunch & poster session*

## NEW ADVANCES IN CANCER THERAPY

- 14:00 **Understanding evolutionary trajectories of Barrett's to intercept oesophageal cancer**  
**Prof. Rebecca FITZGERALD**, Early Cancer Institute, University of Cambridge, UK
- 14:45 **Synthetic lethality between SHIP2 and p53 provides therapeutic opportunity in esophageal squamous cell carcinoma**  
**Cyril BODART**, Institute of Interdisciplinary Research in Human and Molecular Biology (IRIBHM), ULB
- 15:00 **Targeted peptide strategy against anaplastic thyroid carcinoma: EGFR-mediated delivery and PIP3-driven inhibition of the PAM pathway**  
**Zehra-Cagla KAHVECIOGLU**, NMR and Molecular Imaging Laboratory, General, Organic and Biomedical Chemistry Unit, UMONS
- 15:15 **Preventing radiotherapy osteoradionecrosis through extracellular vesicle technology**  
**Marie-Eugénie DE MEESTER**, Clinical Cellular Therapy Research Laboratory, Radiobiology Research Unit, Jules Bordet Institut, ULB
- 15:30 *Group picture*
- 15:35 *Coffee break*
- 16:10 **Venom peptides as a source of novel anti-cancer molecules**  
**Dr. Sébastien DUTERTRE**, Institut des Biomolécules Max Mousseron (IBMM), University of Montpellier, France
- 16:55 **Heterogeneous and dynamic response of squamous esophageal cancer to CDK4/6 inhibition**  
**Prof. Xavier BISTEAU**, Institute of Interdisciplinary Research in Human and Molecular Biology (IRIBHM), ULB
- 17:10 **Ferroptosis-armed dendritic cell vaccines for glioma immunotherapy**  
**Prof. Dmitri KRYSKO**, Cell Death Investigation and Therapy (CDIT) Laboratory, Ghent University; Cancer Research Institute Ghent
- 17:25 *Closing remarks*
- 17:30 *Cheese & Beer*

# POSTERS

- P1** **ADAMTS12 in lipid metabolism and tumor progression**  
**Esther ARPIGNY**, Laboratory of Connective Tissue Biology, GIGA-Cancer, ULiège
- P2** **Consequences of the inactivation of the mannose-6-phosphate pathway on the growth and drug sensitivity of cancer cells**  
**Asena AYNACI**, Laboratory of Intracellular Trafficking Biology, URPhyM, NARILIS, UNamur
- P3** **Deciphering the role of TRMT10C in breast cancer**  
**Francisca CANULEF**, Laboratory of Cancer Epigenetics, ULB
- P4** **Immuno-radiotherapy enhances tumor control and induces abscopal responses in a humanized mouse model**  
**Morgane COGELS**, Department of Radiotherapy, Institut Jules Bordet; Radiophysics Laboratory, ULB
- P5** **tRNA editing by the adenosine deaminase ADAT2 regulates colon homeostasis and controls colon cancer progression**  
**Rossana DE PINTO**, Laboratory of Cancer Signaling / Laboratory of Metabolic Regulation, GIGA-Cancer, ULiège
- P6** **Development of a novel theranostic boron-containing nanovector to enhance Boron Neutron Capture Therapy effectiveness in head and neck cancers**  
**Dr. Géraldine DESCAMPS**, NMR and Molecular Imaging Laboratory, General, Organic and Biomedical Chemistry Unit, UMon
- P7** **Elucidating the influence of the KrasG12D mutation on small intestinal mucosal immunity**  
**Lysa DHULST**, de Duve Institute, UCLouvain
- P8** **Therapeutic targeting of class 2 & 3 BRAF mutated lung adenocarcinoma**  
**Laurine DUPRIEZ**, Laboratory of Tumor and Development Biology, GIGA-Cancer, ULiège
- P9** **Assessing the effects of estrogenic and menopause treatments on the microenvironment in ER-negative cancers**  
**Camille FLAS**, Laboratory of Tumor and Development Biology, GIGA-Cancer, ULiège
- P10** **Identification of potential anticancer peptides from animal venoms using mass spectrometry techniques**  
**Lou FREUVILLE**, Laboratory of Mass Spectrometry, MolSys Research Unit, ULiège; Laboratory of Molecular Cancer Biology, URPhyM, NARILIS, UNamur
- P11** **SHIP2–PLK1 crosstalk promotes synergistic weakness to dual inhibition in esophageal squamous cell carcinoma**  
**Nadia GILLET**, Institute of Interdisciplinary Research in Human and Molecular Biology (IRIBHM), ULB

- P12** **Adaptation of fibroblasts in the metastatic niche of tumor-draining lymph nodes**  
**Noémie GUBBELS**, Laboratory of Tumor and Development Biology, GIGA-Cancer, ULiège
- P13** **Model-based approaches in CAR-T cell development and assessment: bridging scientific research and regulatory applications**  
**Lisa HANQUET**, Clinical Pharmacology and Toxicology Research Unit, NARILIS, UNamur
- P14** **Liquid biopsy: measuring circulating H3K27Me3-nucleosomes in Lung Cancer patients is a strong prognostic biomarker and a potential aid in treatment selection**  
**Dr. Marielle HERZOG**, Research and Development, Belgian Volition
- P15** **Direct comparison of anti-tumoral efficiency of <sup>177</sup>Lu and <sup>225</sup>Ac radiolabeled-cetuximab in a mouse model**  
**Dr. Lionel LARBANOIX**, Center for Microscopy and Molecular Imaging, UMons
- P16** **Synthesis and evaluation of the radiosensitising potential of iron oxide nanoparticles functionalized by a platinum complex**  
**Valentin LECOMTE**, NMR and Molecular Imaging Laboratory, General, Organic and Biomedical Chemistry Unit, UMons
- P17** **Mesoporous silica nanoparticles for combined <sup>19</sup>F MRI imaging and boron neutron capture therapy (BNCT)**  
**Amandine MAES**, NMR and Molecular Imaging Laboratory, General, Organic and Biomedical Chemistry Unit, UMons
- P18** **RNA modifications in triple negative breast cancer**  
**Lorris MAUCLET**, Laboratory of Biochemistry and Cell Biology, NARILIS, UNamur
- P19** **Targeting ferroptosis resistance to sensitise cancer cells to radiotherapy/protontherapy**  
**Keïla OPELE-NAVENGE**, Laboratory of Analysis by Nuclear Reactions (LARN), NARILIS, UNamur
- P20** **Elp3 loss shapes tumor associated neutrophils in metastatic breast cancer**  
**Lobna OUESLATI**, Laboratory of Cancer Signaling, GIGA-Cancer, ULiège
- P21** **Determination of the genes involved in intrinsic resistance to proton beam therapy for the treatment of glioblastoma.**  
**Hortence PARÉE**, Laboratory of Biochemistry and Cell Biology, NARILIS, UNamur
- P22** **Fibronectin leucine-rich transmembrane protein 3 is a potential driver of tumor progression in intrahepatic cholangiocarcinoma**  
**Lara PRATES**, de Duve Institute, UCLouvain
- P23** **Unraveling the molecular regulation of ZEB driven melanoma plasticity as basis for anti-melanoma therapy**  
**Emma ROBERT**, Molecular and Cellular Oncology lab, Ghent University; Cancer Research Institute Ghent ; VIB-UGent Center for Inflammation Research

- P24 TOF-SIMS as a tool to study the alteration of membrane lipids in breast cancer cells after X-Ray and UHDR proton irradiation**  
**Charlotte ROSSI**, NARILIS / NISM, UNamur
- P25 ADAMTS2 in cancer progression: Friend or Foe?**  
**Louis STOCK**, Laboratory of Connective Tissue Biology, GIGA-Cancer, ULiège
- P26 Translation reprogramming drives therapy resistance in metastatic luminal breast cancer**  
**Miguel SUSAETA RUIZ**, Laboratory of Cancer Signaling, GIGA-Cancer, ULiège
- P27 Understanding the consequences of a GlcNAc-1-phosphotransferase inactivation on cancer cell behavior**  
**Maxence TOUSSAINT**, Laboratory of Intracellular Trafficking Biology, URPhyM, NARILIS, UNamur
- P28 Does the radiation LET affect the immunogenicity of cancer cells?**  
**Manon VAN DEN ABBEEL**, Laboratory of Biochemistry and Cell Biology, NARILIS, UNamur
- P29 Advances in liquid biopsy for glioblastoma diagnosis and cancer therapy monitoring through nucleosome epigenetic modifications tracking**  
**Dr. Priscilla VAN DEN ACKERVEKEN**, Research and Development, Belgian Volition
- P30 ZEB1 metabolically rewires colorectal cancer and serves an oncogenic function through stemness acquisition**  
**Jeroen VERSTAPPE**, Molecular and Cellular Oncology lab, Ghent University; Cancer Research Institute Ghent ; VIB-UGent Center for Inflammation Research
- P31 Role of tumor-stroma metabolic crosstalk in the resistance to anti-EGFR therapy in head and neck cancers**  
**Engy VIGNERON**, Pole of Pharmacology and Therapeutics, Institute of Experimental and Clinical Research (IREC), UCLouvain
- P32 Pulsed estrogen therapies and endocrine treatment in breast cancer resistance**  
**Manon ZIELONKA**, Laboratory of Tumor Biology and Development, GIGA-Cancer, ULiège

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