

ONCOLille PhD Days

March, 17th 2022

09:00 - 9:15 **Welcoming by Isabelle VAN SEUNINGEN (Director of the ONCOLille Institute)**

09:15 - 11:10 **Session 1: Signaling pathways, carcinogenesis and aggressiveness of cancers**
Chair: **PhD student** & Loïc Lemonnier



Julie AUWERCX (D2, CANTHER)

TRPM7 Alpha-kinase: understanding its role in the aggressive properties of pancreatic ductal adenocarcinoma

Lina MESILMANY (D4, PHYCELL)

TRPC3 shapes the ER-mitochondria Ca²⁺ transfer characterizing tumour-promoting senescence



Joelle GIROUD (D2, CANTHER)

Impact of the ATF6 α pathway on the establishment of the UVB-induced senescence of normal human dermal fibroblasts

Nicolas STOUP (D3, CANTHER)

Characterization of the first peptide ligand targeting the EGF domain of MUC4: Toward an alternative target to modulate ErbB2 pathway



Gonçalo MESQUITA (D2, PHYCELL)

TRPV6 and PDAC proliferation



Benjamin SORET (D1, PHYCELL)

Role of the calcium-activated K⁺ channel KCa3.1 in the progression of pancreatic ductal adenocarcinoma

Sarah TROUVILLIEZ (D4, CANTHER)

Interaction TrkA/signaling partner W in Triple Negative Breast Cancer (TNBC): on the way of a new class of TrkA inhibitor?

Lama Hasan Bou Issa (D3, CANTHER)

Gene dependencies in MYC overexpressing myeloma

11:10 **Coffee Break**

11:40 – 13:10 **Session 2: Understanding and targeting tumor microenvironment and immunity**
Chair: **PhD student** & Olivier Morales

Fatima MENIAI (D3, OncoThAI)

Evaluation of the impact of high dose irradiation on the modulation of the human immune response in the context of clear cell renal carcinoma



Marie LAMIAUX (D2, OncoThAI)

Evaluation of a New Transdermal Therapeutic Strategy in Hidradenitis Suppurativa and Evaluation of the Induced Immune Response Modulation

Meriem BEN KHOUD (D3, CANTHER)

The role of CCL2/CCR2 signaling pathway in thymus dysfunction during AML



Camille TRIOEN (D1, OncoThAI)

Evaluation of New Immunotherapy and Photodynamic Therapies Targeting Tumoral Exosomes from Nasopharyngeal Carcinoma

Anthony LEFEBVRE (D3, OncoThAI)

Impact of Nasopharyngeal Carcinoma Exosomes on Maturation and Function of Human Dendritic Cells

Madelaine AUDERO (D3, PHYCELL)

pHe-sensitive Store-Operated Ca²⁺ signals contribute to acidic microenvironment-induced PDAC cells' selection

13:10 Lunch cocktail

14:15 – 15:50 Session 3: Evaluating impact of conventional and new therapies

Chair: **PhD Student** & Nicolas Debarsy



Charles POIRAUD (D1, CANTHER)

TransPaRance: modeling cancer treatment to predict and understand resistance to therapy in pancreatic adenocarcinoma

Célia GUERIN (D2, CANTHER)

Characterization and targeting of novel MET receptor mutations in kidney cancer



Léa BOIDIN (D1, OncoThAI)

Evaluation of the Photodynamic Therapy efficacy using a New Photosensitizer coupled to an analogue of Folic Acid on Ovarian Cancer Cells



Marine GOUJON (D1, CANTHER)

MUC1 roles on properties and chemoresistance to cisplatin in lung cancer cells

Marie WINTER (D3, CANTHER)

TSTA3 expression is correlated with tumor recurrence and neoadjuvant chemotherapy response in triple negative breast cancer



Elodie RODZINSKI (D1, CANTHER)

SENSARCOME: Targeting radio-induced senescence to prevent secondary sarcomas in irradiated field

Hancito GARCON (D3, LEM)

Brand name drugs vs generics: An analysis of the french drug market after the arrival of direct competition

Aniss LOUCHEZ (D3, LEM)

Community pharmacy closures, a challenge for elderly people healthcare access

15:50 Coffee Break

16:20 - 17:15 Session 4: New tools and bioengineered models to understand and cure cancer

Chair: Ludivine Raby & Çağatay Tarhan



Morgane MOINARD (D1, OncoThAI)

Vectorized photosensitizers to target, detect and destroy peritoneal carcinomatosis while activating the immune system

Bahram AHMADIAN (D2, LIMMS)

Mechanical characterization of single cells while visualizing subcellular elements



Félix ROYER (D1, CANTHER)

Development of an instrumented microfluidic culture system to study tumour-stroma interaction and drug sensitivity of pancreatic adenocarcinoma

Clara LEWUILLON (D3, CANTHER)

Deciphering the PD-1/PD-L1 calcium signature in the immunological synapse: microfluidic single cell technology towards precision immunotherapies



Thomas MEYNARD (D1, CANTHER)

Development of an instrumented microfluidic culture system to study tumour-stroma interaction and drug sensitivity of pancreatic adenocarcinoma

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March, 18th 2022

09:30 - 10:15 **Session 4: New tools and bioengineered models to understand, cure and live after cancer**
Chair: **PhD student** & Anne-Sophie Vignion

Quentin REZARD (D3, LIMMS)

Developing a mems device for high-throughput multi-parameter single-cell biophysical analysis



Lisa TERRASSOUX (D1, CANTHER)

Establishment of a tumor-on-chip as a new model for preclinical evaluation in DIPGs

Laurine ZIANE (D3, OncoThAI)

Development of a light emitting device for peritoneal carcinomatosis of ovarian origin treatment by intracavitary photodynamic therapy

10:15 - 11:10 **Session 5: Cancer biomarkers and predictive tools**
Chair: Lama Hasan Bou Issa & Albin Pourtier



Charlotte DUFOUR (D1, CANTHER)

Poorly cohesive cell carcinoma of the stomach: morphological and molecular characterization; clinical interest

Laura CATON (D3, SCALab)

Vagal nerve activity and risk of cancer onset: Analysis of the Lifelines cohort



Claire DEGAND (D1, CANTHER)

Spare respiratory capacity: metabolic biomarker predictive of response to treatment for acute myeloid leukemia

Romain LARRUE (D2, CANTHER)

Molecular and cellular determinants in Chronic Kidney Disease



Antoine DEVALCKENEER (D1, OncoThAI)

Inside the aneurysm physiopathology

11:10 Coffee break

11:40 - 12:55 **Session 6: Inside the nucleus: transcriptional and epigenetic regulation in cancer**
Chair: **PhD student** & Audrey Vincent



Julie VREVIN (D1, CANTHER)

Evaluation of a new differentiation inducing strategy by inhibition of HOXA9 complex in acute myeloid leukemia (AML)

Elsa HADJ BACHIR (D2, CANTHER)

Epigenetic mechanisms involved in acquired resistance to combined chemotherapies in digestive cancer cells

Ludivine RABY (D3, CANTHER)

Polycomb repression and zebrafish model in cancerology

Evodie PEPPERSTRAETE (D3, CANTHER)

Involvement of BST2 in phenotypes associated of long non coding RNA H19 in the emergence of breast cancer metastasis

Andria RAKOTOMALALA (D2, CANTHER)

New cellular models to decipher H3.3K27M mutation role in DIPGs' resistance to treatments



Laurine MILVILLE (D1, SCALab)

Hope for parents whose child has cancer

12:55 *Lunch Cocktail*

14:00 - 15:05 **Session 7: Metastatic processes** - Chair: **Nicolas Stoup & Chann Lagadec**

Julien CICERO (D2, CANTHER)

Studies of signaling pathways involved in brain metastasis of triple negative breast cancer



Mayar SOUSSI (D1, CANTHER)

TRP channel signaling as dynamic mechanosensors during breast cancer metastasis

Dheeraj KANNANCHERI PUTHOORU (D2, PHYCELL)

Sodium - calcium signalling network underlying metastatic potential of prostate cancer cells



Alexandre VAN OUTRYVE (D1, CANTHER)

Involvement of TrkA and its partners in metastasis formation in triple negative breast cancer

Marie-Océane LAGUILLAUMIE (D2, CANTHER)

Alterations of calcium homeostasis in tumor dormancy and 3D bone marrow niche modeling

Amina NAIT ELDJOURI (D2, CANTHER)

Impact of chemotherapy on triple-negative breast cancer metastasis

15:05 - 16:10 **Session 8: Bioinformatics and biostatistics tools to study cancer**

Chair: **Elsa Hadj Bachir & Sophie Dabo**

Christelle Judith AGONKOUI (D2, LPP)

Multivariate functional principal component analysis for stratified data



Parvathy ANANTHA (D1, CANTHER)

Computer Simulation and Experiments of Radio-Induced Cell Senescence

Marie DENOULET (D4, CANTHER)

ABSP : A new automated R tool to analyze Bisulfite Sequencing PCR (BSP), to facilitate the study of target regions DNA methylation.



Geoffrey PAWLAK (D1, CANTHER)

System biology and regulatory network for oncogenic addiction elucidation in MET 14 skipping mutation in lung cancer

Mathilde BRULE (D3, CANTHER)

Redox dynamic as a mediator of ionizing radiation-induced reprogramming of non-tumorigenic cancer cells into cancer stem cells in breast cancer

16:10 *Selection of the best oral communications by the jury committee*

17:00 *Awards for the best oral communications*

17:30 *Closing remarks*