

17^{èmes}

Journées Cancéropôle Grand Sud-Ouest

17 au 19 Novembre 2021

Centre des Congrès / Carcassonne



PROGRAM



www.canceropole-gso.org



Wednesday 17th November

12h30 – 13h45: Welcome lunch

13h45-14h00: Opening ceremony

Director Cancéropôle Grand Sud-Ouest

14h00-16h00: LIQUID BIOPSIES

Chairs: Anne-Marie GUE & Fabrice LALLOUE

Lecture (virtual): **Caroline DIVE**, Cancer Research UK, Manchester (United Kingdom) - **Liquid Biopsy to support better treatment for small cell lung cancer**

- **Sandrine DABERNAT**, Biotherapy for genetic diseases, inflammation and cancer (Bordeaux) - Extracellular vesicle liquid biopsy: the next generation cancer biomarker ?
- **Camille DANTZER**, Bordeaux Research in Translational Oncology - Mutated β -catenin regulates extracellular vesicles machinery in hepatocellular carcinoma

Lecture: **Valérie TALY**, Centre de Recherche des Cordeliers, Inserm U1138, CNRS SNC5096 (Paris) - **Tracking circulating tumor DNA for cancer patient follow-up**

17h00-18h30: 3 parallel workshops

TRANSLATIONAL RESEARCH, FROM BIOLOGY TO THE CLINIC : FLASH POSTERS

Chair: Majid KHATIB



- **Alexandra FAUVRE**, Montpellier Cancer Research Institute - Platinum-based chemotherapy induce inflammation via a non-canonical STING pathway dependent on ATM activation
- **Alexia FRANCOIS**, Angiogenesis and Cancer Microenvironment Laboratory (Bordeaux) - Proteolytic protein repression mediates tumor T cells infiltration and anti-tumoral immune response: Drug-repurposing approach
- **Amandine AMALRIC**, Institute for Functional Genomics (Montpellier) - "Epitranscriptomics": a promising source of biomarkers for personalized medicine
- **Céline HERVIEU**, CAPTuR (Limoges) - Colorectal cancer stem cells respond differently to chemotherapies depending on their original location
- **Elsa FRISTOT**, Structural Biochemistry Center (Montpellier) - Programming lactic acid bacteria for colorectal cancer therapy
- **Jean DESCARPENTRIE**, Angiogenesis and Cancer Microenvironment Laboratory (Bordeaux) - Repression of liver colorectal metastasis by the naturally occurring inhibitor of Furin (ppFurin)
- **Johanna MARINES**, AZELEAD (Montpellier) - Modelling 3D tumour microenvironment in vivo using live imaging technique: a tool to predict cancer fate
- **Kévin BIGOT**, Montpellier Cancer Research Institute - New Imidazo[1,2-a]quinoxalines compounds for Pancreatic Ductal Adenocarcinoma treatment: mechanism of action and target identification
- **Marine BRUCIAMACCHIE**, Montpellier Cancer Research Institute - Association of oxaliplatin-based chemotherapy and ATR inhibitor in pancreatic cancer
- **Soha SALLOUM**, Institute of Human Genetics (Montpellier) - Characterization of β -catenin translation factories
- **Zeinab TARHINI**, Limoges University - The effect of metformin on the survival of colorectal cancer patients with type 2 diabetes mellitus

16h00 – 17h00: Poster session & Coffee break

17h00-18h30: 3 parallel workshops

IONS CHANNELS & CANCER



Chair: Bruno CONSTANTIN

Lecture: **Albrecht SCHWAB**, *Institute of Physiology II, Münster (Germany)* - **The role of KCa3.1 channels in non-small cell lung cancer**

- **Bruno CONSTANTIN**, *Laboratoire STIM - CNRS ERL 7003 - EA 7349 (Poitiers)* - Calcium signaling in cancer stem cells
- **David MOREAU**, *École des Mines de Saint-Étienne* - Manipulation of ionic channels and calcium signaling in glioblastoma with infrared radiation
- **Catherine LECLERC**, *Molecular, cellular and developmental biology Unit, CBI-MCD (Toulouse)* - Quiescence status of glioblastoma stem-like cells involves remodelling of Ca²⁺ signalling and mitochondrial shape

HEALTH TECHNOLOGIES



Chair: Anne-Marie GUE

Lectures: **Sylvain CUSSAT-BLANC**, *Institut de Recherche en Informatique de Toulouse* - **ISiCell: a web-oriented platform to model cellular processes**

Ovidiu RADULESCU, *Laboratory of Pathogen Host Interactions (Montpellier)* - **Computational Models of Heterogeneity in Melanoma: Designing Therapies and Predicting Outcomes**

5 selected talks for “Ma techno en 180 secondes” (flash-posters):

- **Malvina MARKU**, *Cancer Research Center of Toulouse* - On the dynamics of TAM formation in Chronic Lymphocytic Leukaemia: a multi-scale approach
- **Chloé BESSIERE**, *Institute for Regenerative Medicine and Biotherapy (Montpellier)* - Towards a novel framework for large scale RNAseq data analysis in human health
- **Alexia BRUNEL**, *Cancer Research Center of Toulouse* - Bioinformatical analysis of tumor cell with stroma crosstalk that impact aggressiveness of pancreatic ductal adenocarcinoma
- **Elisa LAMBERT**, *XLim (Limoges)* - Microfluidic Lab-On-Chip for UHF-Dielectrophoresis Discrimination of Glioblastoma Undifferentiated cells
- **Justine JOURNAUX**, *Cancer Research Center of Toulouse* - Nanotherapy of pancreatic adenocarcinoma by targeted magnetic hyperthermia: efficacy and mechanisms

18h30 – 19h30: Icebreaker & Poster session

Thursday 18th November

08h00 – 08h30: Welcome coffee

08h30-10h00: MYELOID CELLS IN CANCER

Chairs: Mary POUPOT & Nicolas LARMONIER

Lecture: **Antonio SICA**, University of Piemonte Orientale 'A. Avogadro' (Novara) and Humanitas Clinical and Research Center, Milan (Italy) - Therapeutic targeting of myelopoiesis in cancer

- **Frédéric LAGARRIGUE**, Institute of Pharmacology and Structural Biology (Toulouse) - Integrin signaling in tumor-associated macrophages
- **Julien FAGET**, Montpellier Cancer Research Institute - Lessons from the remote alteration of granulopoiesis in NSCLC: what is neutrophil homeostasis telling us on immune checkpoint blockade ?
- **Céline BLAYE**, Institut Bergonié and ImmunoConcept Lab (Bordeaux) - The tumor-promoting myeloid landscape in breast cancers

10h00 – 11h00: Poster session & Coffee break

11h00-12h45: PRENEOPLASIA & EARLY DISSEMINATION

Chairs: Julie GUILLERMET-GUIBERT & David SANTAMARIA

Lecture (virtual): **Daniel MUÑOZ-ESPÍN**, CRUK Cambridge, Department of Oncology, Hutchison/MRC Research Centre, University of Cambridge (UK) - Impact of cellular senescence in lung precancerous lesions: senotherapeutic opportunities

- **Julie GUILLERMET-GUIBERT**, Cancer Research Center of Toulouse - Role of extrinsic factors in cancer initiation: importance of the stressed niche in pancreatic cancer
- **Zeinab HOMAYED**, Institute for Functional Genomics (Montpellier) - Unravelling the role of early dissemination in colorectal cancer
- **Dimitri HAMEL**, Digestive Health Research Institute (Toulouse) - Epithelio-stromal relationships in physiology & IBD: osteopontin, a key factor for epithelial regeneration and tumor initiation ?
- **Hamid-Reza REZVANI**, Biotherapy for genetic diseases, inflammation and cancer (Bordeaux) - Metabolic and immune features as predictive biomarkers of risk stratification of skin carcinoma

SESSIONS



14h15-16h05 : PATIENTS-PARTENAIRE-FORMATEUR-CO-CHERCHEUR : DES SAVOIRS EXPERIENIELS LEGITIMES ?

Introduction et modération : Béatrice JACQUES

Conférence (à distance) : **Arnaud HALLOY**, Université de Nice - Savoirs expérientiels et partenariat patient : une alliance indispensable

- **Frédéric BOUHIER**, Chargé de mission Société Française de Santé publique - VIH/Sida et Empowerment : « Quels enseignements pour la mobilisation des patients en cancérologie ? »
- **Sabine DUTHEIL**, Patiente partenaire Bordeaux - Le cancer du sein, une maladie chronique pas (tout à fait) comme les autres ?

17h00-18h30 : LE PATIENT-PARTENAIRE EN INSTITUTION

Introduction et modération : Béatrice JACQUES

- **Sabine DUTHEIL**, Patiente partenaire (Bordeaux), **Delphine GARBAY**, Oncologue (Bordeaux) et **Hortense FRANCK**, Oncoradiothérapeute (Bordeaux) - Patiente Partenaire au SEIN d'une équipe d'oncologie : un dispositif innovant
- **Juliane LAMELOT-PELARD**, Université de Nantes, **Margaux LEBORGNE**, Université de Nantes et **Bertrand PORRO**, Universités de Nantes, Anger et Montpellier - Accompagnement des femmes diagnostiquées d'un premier cancer du sein par une patiente-partenaire : Quels bénéfices à moyen et long termes ? Une étude comparative
- **Johanne VASSELLIER**, ARS Nouvelle Aquitaine - Une expérimentation innovante : le salariat de patient partenaire en cancérologie

12h45 – 14h15: Lunch break

14h15-16h05: 3 parallel workshops

CELL SIGNALING AND THERAPEUTIC TARGETS



Chairs: Violaine MOREAU & Julie PANNEQUIN

- **Damien GREGOIRE**, *Institute of Molecular Genetics of Montpellier* - Ras/MAPK signalling intensity defines subclonal fitness in a mouse model of primary and metastatic hepatocellular carcinoma
- **Lucile BANSARD**, *Institute for Functionals Genomics (Montpellier)* - JMV7048, First-in-class PROTAC degrader of PXR

Lecture: **David SANTAMARIA**, *Inserm U1218 Action (Bordeaux)* - **Novel mechanisms controlling KRAS oncogenic output: impact on tumour fitness and cancer vulnerabilities**

- **Coralie CAYRON**, *Cancer Research Center of Toulouse* - PI3K signaling and tumoral metabolism in pancreatic cancer
- **Thomas NAVES**, *CAPTUR (Limoges)* - Sortilin exhibits tumor suppressor-like activity by limiting EGFR function
- **Marcin DOMAGALA**, *Cancer Research Center of Toulouse* - Characterization of a novel monoclonal antibody targeting tumor-associated macrophages

GENOME DYNAMICS AND CANCER



Chairs: Gaëlle LEGUBE & Malik LUTZMANN

Lecture (virtual): **Joanna MORRIS**, *Birmingham Centre for Genome Biology and Institute of Cancer and Genomic Sciences, University of Birmingham (United Kingdom)* - **Back-up pathways that support BRCA1 deficient cells**

- **Sébastien BRITTON**, *Institute of Pharmacology and Structural Biology (Toulouse)* - BRCA1 prevents R-loop-associated centromeric instability
- **Israa AL JAMAL**, *CRIBL (Limoges)* - IgH Locus Suicide Recombination (LSR) in Chronic Lymphocytic Leukemia (CLL): Prognosis Indicator ?
- **Yvan CANITROT**, *Molecular, cellular and developmental biology Unit, CBI-MCD (Toulouse)* - Control of Homology directed repair of DNA double strand breaks by the KDM8 histone demethylase
- **Francesco CALZAFERRI**, *Institut des Biomolécules Max Mousseron (Montpellier)* - New strategies to target DNA methylation: from the discovery of novel DNMT inhibitors to the identification of novel epigenetic targets
- **Vera PANCALDI**, *Cancer Research Center of Toulouse* - Network approaches to dissect the epigenome-phenotype connection in immune cell

16h05 – 17h00: Coffee break

17h00-18h30: RESEARCH IN MELANOMA

Chairs: Aubin PENNA & Gilles FAVRE

- **Anne MONTFORT**, *Cancer Research Center of Toulouse* - Combining TNF inhibitors to anti-PD-1 and anti-CTLA-4 for the treatment of advanced melanoma patients
- **Xavier ORLIK**, *ONERA (Toulouse)* - Real time in vivo observation of the human skin microvascularization
- **Léa DOUSSET**, *Biotherapy for genetic diseases, inflammation and cancer (Bordeaux)* - Vitiligo under PD-1 inhibitors for melanoma patients: what's new and how we can go further ?

Lecture: **Daniel PEEPER**, *The Netherlands Cancer Institute, Amsterdam (The Netherlands)* - **Rational concepts for tumor & immune cell therapy combinations**

Friday 19th November

08h00 – 08h30: Welcome coffee

08h30-10h15: 3 parallel workshops

POOR PROGNOSIS CANCERS: BRAIN TUMORS



Chairs: Norbert BAKALARA & Fabrice LALLOUE

- **Thomas DAUBON**, *Institute for cellular biochemistry and genetics (Bordeaux)* - Glioblastoma Metabolic Symbiosis: When Lactate Takes The Lead
- **Charles DUPIN**, *Biotherapy of genetic diseases, inflammatory disorders and cancers (Bordeaux)* - Glioblastoma, radiotherapy and 5-AminoLevulinic Acid: a dead end ?
- **Gabriel MARSERES**, *Immunology from concept and experiments to translation (Bordeaux)* - Targeting glioblastoma with in vitro amplified Vδ2neg γδ T cells: preclinical study
- **Alexandra GARANCHER**, *Montpellier Cancer Research Institute* - Understanding the immune microenvironment to improve immunotherapy for pediatric brain tumors
- **Jean-Philippe HUGNOT**, *Institute for Functional Genomics (Montpellier)* - Insight on the tumoral cell diversity, their formation and proliferation in IDH1-mutant diffuse low brain gliomas: a key role for Notch1 signaling

EXTRACELLULAR MATRIX & CANCER



Chairs: Christine BEZOMBES & Anne-Marie GUE

Lecture: **Audrey FERRAND**, *Digestive Health Research Institute (Toulouse)* - **Extracellular Matrix Mechanical Properties and Regulation of the Intestinal Stem Cells: When Mechanics Control Fate**

- **Christine VARON**, *Bordeaux Research in Translational Oncology* - The bacterial genotoxin, cytolethal distending toxin, modulates cell differentiation and elicits epithelial to mesenchymal transition
- **Laure GIBOT**, *Molecular Interactions and Chemical and Photochemical reactivities (Toulouse)* - Electric fields as powerful tools to transiently modulate cutaneous extracellular matrix
- **Clément AUGER**, *CAPTUR (Limoges)* - Using nanoparticle tracking analysis (NTA) for appreciation of up and down extracellular vesicle secretion
- **Léa NORMAND**, *Bordeaux Research in Translational Oncology* - Tumor cells-released tracks promote cell migration on type I collagen

SESSIONS



08h30-10h15 : LE PATIENT FORMATEUR

Introduction et modération : Béatrice JACQUES

- **Olivia GROSS**, *LEPS UR 3412, Université Sorbonne Paris Nord* - L'expérience de Bobigny | Intervention à distance
- **Marie-France KOLTES**, *Institut des métiers de la santé* et **Patrick LARTIGUET**, *aidant partenaire formateur (Bordeaux)* - Du paternalisme médical au partenariat en santé : accompagner le changement auprès des établissements de formation des professionnels de santé
- **Sandra ALLAIRE de la FUENTE**, *patiente partenaire en oncologie (Bordeaux)* – Du témoignage bénévole à la co-construction d'une séquence pédagogique rémunérée
- **Guy KANTOR**, *Ligue contre le cancer en Aquitaine* - Lancement d'un dispositif de formation par les patients au sein de la ligue contre le cancer de Gironde | Intervention à distance

11h00-12h30 : LE PATIENT CO-CHERCHEUR

Introduction et modération : Béatrice JACQUES

- **Lise MOLIMARD** et **Nathalie CAPLET**, *SIRIC Brio* - Implication des patients en recherche : retours d'expériences et réflexions sur différentes modalités
- **Julien BIAUDET** *Cancéropôle CLARA* et **Raymond MERLE**, *Département Universitaire des Patients Grenoble Alpes* - Construire un appel à projets avec et pour les patients : retour d'expérience du Cancéropôle CLARA
- **Pascal RAGOUET**, *Centre Emile Durkheim (Bordeaux)* - Recherche profane et autothérapie. Quelques pistes sur le concept de recherche translationnelle centrée patient

10h15 – 11h00: Coffee break

11h00-12h30: POOR PROGNOSIS CANCERS: PANCREATIC CANCER

Chairs: Marlène DUFRESNE & Véronique GIGOUX

Lecture: Núria MALATS & Francisco X. REAL, Spanish National Cancer Research Centre (CNIO), Madrid (Spain) - **Learning from biology: The challenge of pancreatic cancer prevention**

- **Guillaume TOSATO**, Montpellier Cancer Research Institute - Discovery of Soluble Pancreatic Cancer Biomarkers Using Innovative Clinical Proteomics and Statistical Learning
- **Yvan MARTINEAU**, Cancer Research Center of Toulouse - Translatome-based classification reveals a dual metabolic dependency of a new tumor subtype of pancreatic cancer
- **Pierre CORDELIER**, Cancer Research Center of Toulouse - Targeting cancer cells with basal-like, mesenchymal phenotype with oncolytic virus to inhibit the growth of pancreatic cancer
- **Corinne BOUSQUET**, Cancer Research Center of Toulouse - Towards the identification of Cancer-Associated Fibroblast signaling underlying pancreatic cancer aggressiveness

12h30-12h45: POSTER AWARD SESSION

12h45 – 14h00: Lunch



L'équipe du Cancéropôle Grand Sud-Ouest remercie vivement

- les conférenciers et les modérateurs des sessions,
- les patients partenaires et particulièrement Sabine Dutheil,
- les coordonnateurs et les membres des Comités de Pilotage des Axes,
- les membres du Comité de Pilotage Scientifique,

pour leur participation et leur implication dans l'élaboration du programme de ces 17^{èmes} Journées et la qualité scientifique des présentations.

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Ces journées bénéficient du soutien de :

