

14<sup>èmes</sup>

# Journées Cancéropôle Grand Sud-Ouest

21 au 23 Novembre 2018

Palais des Congrès / La Grande Motte



## PROGRAM



[www.canceropole-gso.org](http://www.canceropole-gso.org)



# Wednesday 21st November

Welcome lunch 12h30 – 13h45

## 13h45-14h00: Opening ceremony

Gilles FAVRE – Scientific director Cancéropôle Grand Sud-Ouest

## 14h00-16h00: Plenary session

**THE FUTURE OF IMMUNOTHERAPY IN ONCOLOGY** with the institutional support of  Bristol-Myers Squibb

Chairs: Gilles FAVRE and Nathalie BONNEFOY

Lecture: Immunotherapy 2.0: Current challenges and perspectives - Aurélien MARABELLE - Gustave Roussy Institute (Paris)

- Tumor Necrosis Factor  $\alpha$  blockade in melanoma: from basic research to the clinic and back - Bruno SEGUI - Cancer Research Center of Toulouse (Toulouse)
- Development of first-in-class humanized blocking antibody targeting CD39 ectonucleotidase for combined cancer immunotherapy - Nathalie BONNEFOY – Montpellier Cancer Research Institute (Montpellier)
- Single cell transcriptomics unveils the distinct cytotoxic profiles of human TCRV $\delta$ 1 and TCRV $\delta$ 2  $\gamma\delta$  T lymphocytes - Jean-Jacques FOURNIE - Cancer Research Center of Toulouse (Toulouse)
- Multiplexed-epitope-based tissue imaging and single cell analysis using mass cytometry - Henri-Alexandre MICHAUD - Montpellier Cancer Research Institute (Montpellier)

## 17h00-19h00: 5 parallel workshops

### RESISTANCE AND SIGNALING



Chairs: Karine DURAND and Sébastien BRITTON

Lecture: Role of the microenvironment in cancer invasion and therapy response - Eric SAHAI - The Francis Crick Institute (London)

- Inhibition of ATR overcomes resistance to oxaliplatin and promotes anti-tumour immunity in colorectal cancer - Céline GONGORA - Montpellier Cancer Research Institute (Montpellier)
- TRIM proteins act as a molecular rheostat to regulate the ubiquitination and anti-apoptotic activity of BCL2A1 in melanoma cells - Jérôme KUCHARCZAK - Institute of Molecular Genetics of Montpellier (Montpellier) and Université Lyon 1 (Lyon)
- Targeting the early steps of adaptive resistance to EGFR tyrosine-kinase inhibitors in lung cancer - Olivier CALVAYRAC - Cancer Research Center of Toulouse (Toulouse)
- Targeting DNA Repair Mechanisms to Overcome Drug Resistance in Diffuse Large B Cell Lymphoma - Julie DEVIN - Institute of Human Genetics (Montpellier)
- Targeting SUMOylation to overcome resistance of Acute Myeloid Leukemia to chemotherapies and differentiation therapies - Guillaume BOSSIS - Institute of Molecular Genetics of Montpellier (Montpellier)

### HEALTH TECHNOLOGIES



Chairs : Magali GARY-BOBO and Sylvie BEGU

Lectures: Biological fate of silica based nanoparticles: physicochemistry and membranes interactions - Joël CHOPINEAU - Charles Gerhardt Institute (Montpellier)

Nanosized Prussian blue analogues as theranostic agents - Yannick GUARI - Charles Gerhardt Institute (Montpellier)

Biodegradable polymeric nanosystems for anti-cancer agent intracellular uptake - Hélène VAN DEN BERGHE - Max Mousseron Biomolecules Institute (Montpellier)

- 8 selected talks for “Ma techno en 180 secondes” (flash-posters): Morgane DAURAT, Nizar SERHAN, Eric VIVES, Nabila LAROU, Jonathan DANIEL, Sofiane SAADA, Frédéric FINA, Sylvain CUSSAT-BLANC

## Coffee break & Poster session 16h00 – 17h00

### GENOME DYNAMICS AND CANCER

Chairs: Kerstin BYSTRICKY and Malik LUTZMANN



**Lecture:** The organization of genome duplication is a critical determinant of the landscape of genome maintenance - **Jenny WU** - Rennes Institute of Genetics and Development (Rennes)

- Evaluation of the anti-proliferative role of the miR-34 miRNA in mammalian cells - **Hervé SEITZ** - Institute of Human Genetics (Montpellier)
- p57/Kip2 acts as a transcriptional regulator in colorectal cancer - **Justine CREFF** - Laboratory of Molecular and Cellular Biology of Proliferation Control / Integrative Biology Center and Laboratory for Analyses and Architecture of Systems (Toulouse)
- Transcriptional repression of interferon-stimulated genes by the TRRAP transcriptional co-activator and its chaperone TTT - **Dylane DETILLEUX** - Montpellier Cell Biology Research Center (Montpellier)
- JMJD6 participates in the maintenance of rDNA integrity in response to DNA damage - **Jérémie FAGES** – Laboratory of Molecular and Cellular Biology of Proliferation Control / Integrative Biology Center (Toulouse)
- Rad18: a novel target to sensitize cancer stem cells to therapy - **Domenico MAIORANO** – Institute of Human Genetics (Montpellier)

### TRANSLATIONAL RESEARCH, FROM BIOLOGY TO THE CLINIC

Chairs: Majid KHATIB and Pierre CORDELIER



- Cathepsin D-targeting antibodies for triple-negative breast cancer therapy - **Emmanuelle LIAUDET-COOPMAN** - Montpellier Cancer Research Institute (Montpellier)
- Inhibiting integrin  $\beta 8$  to differentiate and radiosensitize Glioblastoma-initiating Cells - **Anthony LEMARIE** - Cancer Research Center of Toulouse (Toulouse)
- Role of PXR (Pregnane X Receptor) and its target genes on the sensitivity of prostate cancer cells to tyrosine kinase inhibitors - **Alexandre EVRARD** - Montpellier Cancer Research Institute (Montpellier)
- Hydroxychloroquine as a novel therapeutic approach in mast cell activation diseases - **Eric ESPINOSA** – Cancer Research Center of Toulouse (Toulouse)
- 5 flash-poster presentations: Julie GIRAUD, Rita TANOS, Gaëlle TACHON, Louise BAUSSARD, Axel BOUKREDINE

### BASES DE DONNEES MEDICO-ADMINISTRATIVES : UTILISATIONS EN RECHERCHE EN EPIDEMIOLOGIE ET SCIENCES SOCIALES

Modération: Brigitte TRÉTARRE



**Conférences:** Le SNIIRAM et le SNDS : contenu et conditions d'accès juridiques et techniques - **Hélène CAILLOL** – Caisse Nationale de l'Assurance Maladie (Paris)

**La Cohorte cancer issue des données SNIRAM / PMSI : construction et données mobilisées** - **Philippe-Jean BOUSQUET** – Institut National du Cancer (Paris)

- Estimation départementale de l'incidence des cancers : comment utiliser les données médico-administratives de manière valide ? - **Edouard CHATIGNOUX** – Santé Publique France (Toulouse)
- Un exemple d'utilisation des bases de données du SNIIRAM à des fins d'étude épidémiologique : proposition d'une méthode pour identifier les bénéficiaires de la CMU/CMU-C des patients inclus dans un registre des cancers - **Sébastien ORAZIO** - Bordeaux population Health (Bordeaux)
- Identifier des patients avec des cancers métastatiques de la prostate résistants à la castration (mCRPC) dans la base SNDS : l'étude CAMERRA – **Patrick BLIN** – Université de Bordeaux (Bordeaux)

# Thursday 22nd November

Welcome coffee 08h00 – 08h30

## 08h30-10h30: PLASTICITY

Chairs: Daniel FISHER and David SANTAMARIA

Lecture: An integrative view of cellular senescence and reprogramming – Manuel SERRANO – Institute for Research in Biomedicine (Barcelona)

- Novel insights of KRAS dimerization as an essential oncogenic requirement - David SANTAMARIA - Actions for onCogenesis understanding and Target Identification in Oncology (Bordeaux)
- Ki-67 promotes cell plasticity and tumourigenesis by regulating global gene expression - Karim MROUJ - Institute of Molecular Genetics of Montpellier (Montpellier)
- Cellular Plasticity in Gliomas - Jean-Philippe HUGNOT - Institute for Neurosciences of Montpellier (Montpellier)
- Metabolic and mitochondrial flexibility in acute myeloid leukemia - Jean-Emmanuel SARRY - Cancer Research Center of Toulouse (Toulouse)

## Coffee break 10h30-11h00

## 11h00-12h30: PLASTICITY

Chairs: Julie PANNEQUIN and Fabrice LALLOUE

Lecture: Cellular pliancy and breast cancer genetics - Alain PUISIEUX - Lyon Cancer Research Center (Lyon)

- Modulation of macroH2A1 isoforms during EMT process drives the metastatic potential of human prostate cancer cells - Anne-Claire LAVIGNE - Laboratory of Eukaryotic Molecular Biology / Integrative Biology Center (Toulouse)
- Dynamic changes in chromatin regulate the highly dynamic changes in alternative splicing observed during the EMT - Reini LUCO - Institute of Human Genetics (Montpellier)
- RNA epigenetic and FTO activity steer cancer cell fate - Sébastien RELIER - Institute of Functional Genomics (Montpellier)

SESSIONS

## 08h30-10h30 : REALITE VIRTUELLE ET CANCER

Modération : Nathalie BLANC et Aude MICHEL

Conférence: La Réalité Virtuelle: quel enjeu dans les soins psychologiques en oncologie ? - Anne-Marie ETIENNE - Université de Liège (Liège)

- "Dessine moi une réalité plus belle" : quelles perceptions du dispositif de réalité virtuelle pour les patientes atteintes d'un cancer du sein ? - Nathalie BLANC et Aude MICHEL – Laboratoire Epsilon - Université Paul Valéry (Montpellier)
- La réalité virtuelle au service des patients en oncologie dans le cadre de la prise en charge de l'anxiété pré-opératoire - Christine LAURENT – Centre Léon Bérard (Lyon)
- Prêt à porter un casque ? Modeler le réel grâce à la réalité virtuelle – Nancy RODRIGUEZ – Laboratoire d'Informatique, de Robotique et de Micro-électronique de Montpellier (Montpellier)
- Utilisation de casque aéro-audio-olfactif dans la gestion du stress en aéronautique – Sarah GRIVOT – Laboratoire de Chimie Agro-Industrielle, INRA (Toulouse)

## Lunch break & Poster session 12h30 – 14h30

### 14h30-16h30: HEPATOCELLULAR CARCINOMA

Chairs: Urszula HIBNER and Violaine MOREAU

Lecture: **Genomics of liver tumors: new mechanisms of carcinogenesis** - **Jessica ZUCMAN-ROSSI** - *Functional Genetics of Solid Tumors (Paris)*

- New landscape in HCC treatment: TKI and Immunotherapies - **Eric ASSENAT** - *Institute of Molecular Genetics of Montpellier and University Hospital (Montpellier)*
- Deciphering the dual role of  $\beta$ -catenin in hepatocellular carcinoma - **Violaine MOREAU** - *Bordeaux Research in Translational Oncology (Bordeaux)*
- Tumor-Antagonizing Fibroblasts in hepatocellular carcinoma - **Bilguun ERKHEM OCHIR** - *Montpellier Cancer Research Institute / Gunma University Graduate School of Medicine (Gunma, Japan)*
- CDK8 kinase acts as an oncogene in hepatocellular carcinoma - **Damien GREGOIRE** - *Institute of Molecular Genetics of Montpellier (Montpellier)*

### Coffee break 16h30-17h00

### 17h00-18h30: NEW PUBLISHING MODELS

Chair: Philippe GORRY

Lectures: **Open Science & Publishing Models - how to share reproducible data** - **Andrea LEIBFRIED** - *Life Science Alliance (Germany)*

**The transformation of the scientific paper : from knowledge to accounting unit** - **Yves GINGRAS** – *Quebec University (Canada)* & **Johan GIRY** - *Strasbourg University (Strasbourg)*

- Economics of Scientific Edition - **Philippe GORRY** - *Gretha (Bordeaux)*

### 18h30-19h15: ARTIFICIAL INTELLIGENCE AND CANCER

Chair: Claude SARDET

Lecture: **Omics data in cancer: No more humans !** – **William RITCHIE** – *Institute of Human Genetics (Montpellier)*



### 11h00-12h30 : PROJETS EMERGENTS FINANCES AU SEIN DE L'AXE

Modération : Béatrice JACQUES

- Bilan des projets financés par l'axe 4 – **Olivier CLAVERIE** – *Cancéropôle GSO*
- Parolothèque - **Virginie WOISARD** - *Octogone-Lordat (Toulouse)*
- Des innovations biomédicales issues de l'aéronautique et du spatial ? Contribution à une analyse des processus translationnels en cancérologie - **Pascal RAGOUET** - *Centre Emile Durkheim (Bordeaux)*
- Règles d'enregistrement des tumeurs évolutives - **Laetitia DAUBISSE MARLIAC** - *Registre des cancers du Tarn (Albi)*

### 14h30-16h30 : ETUDES D'INNOVATIONS EN SANTE en collaboration avec



Modération : Anne-Marie Gué

- Un programme de recherche intégré et pluridisciplinaire en SHS sur une innovation, la radiologie interventionnelle : les points de vue du sociologue des sciences, de l'économiste et du sociologue de la santé – **Béatrice JACQUES, Pascal RAGOUET et Philippe GORRY** – *Centre Emile Durkheim et Gretha (Bordeaux)*
- Présentation et discussions d'innovations en développement au sein de l'axe 5
  - L'électrochimiothérapie : comment faire passer le courant entre la recherche et le milieu médical ? - **Marie-Pierre ROLS** - *Institut de Pharmacologie et de Biologie Structurale (Toulouse)*
  - Nanoparticules dans l'alimentation humaine : existe-t-il un lien avec l'augmentation du nombre de cancers colorectaux ? - **Audrey FERRAND** - *Institut de Recherche en Santé Digestive (Toulouse)*

# Friday 23rd November

Welcome coffee 08h00 – 08h30

## 08h30-10h15: 2 parallel sessions

### RADIOTHERAPY AND DNA DAMAGE

organized with



Chairs: David AZRIA and Malik LUTZMANN

Lecture: **Radiotherapy from classical DNA damage to immunotherapy** - Eric DEUTSCH - Gustave Roussy Institute (Paris)

- Lymphocyte apoptosis and individual radiosensitivity - David AZRIA - Montpellier Cancer Institute (Montpellier)
- Therapeutic efficacy of <sup>177</sup>Lu-lilotomab satetraxetan in non-Hodgkin B-cell Lymphoma is controlled by G2/M cell cycle progression - Jean-Pierre POUGET - Montpellier Cancer Research Institute (Montpellier)
- Repair proteins in quest of the Ku ring: molecular insights into the first steps of DNA double-strand breaks repair by end-joining - Patrick CALSOU - Institute of Pharmacology and Structural Biology (Toulouse)

### NEW MECHANISMS IN GASTRO-INTESTINAL ONCOLOGY

Chairs: Julie PANNEQUIN and Thibault MAZARD

Lecture: **Intestinal tuft cells: novel regulators of the immune micro-environment** - Philippe JAY - Institute of Functional Genomics (Montpellier)

- The HSP90 co-chaperone RPAP3 plays an essential role in intestinal homeostasis - Bérengère PRADET-BALADE - Montpellier Cell Biology Research Center (Montpellier)
- H-1 parvovirus inhibits both primary tumor and metastatic growth of human pancreatic tumors - Pierre CORDELIER - Cancer Research Center of Toulouse (Toulouse)
- miR-148a sensitizes colon cancer stem cell to chemotherapy by targeting Pregnane X- Receptor signaling - Jean-Marc PASCUSI - Institute of Functional Genomics (Montpellier)
- MAGI1 regulates anchorage-independent growth in breast and colon cancers by modulating the interaction between the HIPPO pathway regulators AMOT and YAP - Lisa HERON-MILHAVET - Montpellier Cancer Research Institute (Montpellier)

Coffee break 10h15 – 10h45

## 10h45-12h30: MICROBIOTA AND CANCER

Chairs: Philippe JAY and Philippe LEHOURS

Lecture: **Microbiota and its involvement in pathology** - Joël DORE - Micalis Institute "Food and Gut Microbiology for Human Health" (Jouy-en-Josas)

- Characterisation of bioactive lipid molecules produced by bacteria: role in intestinal homeostasis - Nicolas CENAC - Digestive Health Research Institute (Toulouse)

Lecture: **Remote control of antitumoral immunity by the gut microbiota** - Mathias CHAMAILLARD - Lille Infection and Immunology Center and Pasteur Institute (Lille)

- Impact of *Helicobacter sp* infection on gastric lymphomagenesis and microbiota - Philippe LEHOURS - Bordeaux Research in Translational Oncology (Bordeaux)

## 12h30-12h45: POSTER AWARD SESSION

Lunch 12h45 – 14h



L'équipe du Cancéropôle Grand Sud-Ouest remercie vivement

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  
14èmes Journées.

### Comité de Pilotage Scientifique

JC. Bernhardt, JP. Bleuse, K. Bystricky, P. Clavère, P. Cordelier, P. Denèfle, A. Evrard, D. Fisher, A.M Gué, B. Jacques, L. Karayan-Tapon, M. Khatib, S. Krouri, F. Lalloué, G. Laurent, V. Moreau, J. Pannequin, P. Rochaix, C. Sardet, P. Soubeyran, D. Tougeron

### Comités de pilotage des Axes

#### Axe 1 - Signalisation cellulaire et Cibles thérapeutiques

S. Britton, O. Coux, Y. Denizot, K. Durand, JP. Hugnot, L. Karayan-Tapon, C. Laurent, N. Larmonier, **J. Pannequin**

#### Axe 2 - Dynamique du Génome et Cancer

JC. Andrau, **K. Bystricky**, F. Chibon, J. Dejardin, E. Julien, **M. Lutzmann**, D. McCusker, S. Millevoi, E. Pinaud

#### Axe 3 - Recherche translationnelle, de la biologie à la clinique

E. Assénat, N. Bakalara, P. Barthélémy, JP. Brouillet, T. Chardès, E. Chatelut, M. Dufresne, A. Evrard, V. Gigoux, N. Houédé, **M. Khatib**, F. Lalloué, **N. Meyer**, MA. Poul, J. Robert, I. Soubeyran, D. Tougeron, N. Tubiana-Mathieu

#### Axe 4 - Cancers : enjeux individuels et collectifs

D. Alabarracin, C. Bellera, F. Cousson-Gélie, C. Delpierre, P. Gorry, S. Gourgou, **B. Jacques**, A. Sasco, F. Sordes, B. Trétarre

#### Axe 5 - Technologies pour la santé

A. Bancaud, M. Bardiès, S. Bégu, M. Busson, L. Cagnet, A. Collin, P. Cordelier, P. Fernandez, A. Ferrand, R. Ferrand, JL. Feugeas, M. Gary-Bobo, **AM. Gué**, **G. Kantor**, D. Kouamé, S. Lecommandoux, C. Llacer, D. Pagnoux, S. Papot, A. Pothier, JP. Pouget, MP. Rols, O. Sandre, H. Seznec, V. Sol

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# Journées Cancéropôle Grand Sud-Ouest

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Ces journées bénéficient du soutien de :

