

15^{èmes}

Journées Cancéropôle Grand Sud-Ouest

20 au 22 Novembre 2019

Palais des Congrès / Arcachon



PROGRAM

Wednesday 20th November

12h30 – 13h45: Welcome lunch

13h45-14h00: Opening ceremony – Oncosphere presentation

Muriel MATHONNET – Scientific director Cancéropôle Grand Sud-Ouest

Pierre SOUBEYRAN – Inserm Actions for onCogenesis understanding and Target Identification in Oncology, Bergonié Institute (Bordeaux)

14h00-16h00: Plenary session

TRANSLATIONAL RESEARCH: FROM BIOLOGY TO CLINICS

Chairs: Julie PANNEQUIN and Abdel-Majid KHATIB

Lecture: Thomas HELLEDAY, Weston Park Cancer Centre, Department of Oncology and Metabolism, University of Sheffield (United Kingdom) - Targeting DNA repair: from basic biology to clinical trials

- (Not) lost in translation: gene therapy for pancreatic cancer - Pierre CORDELIER, Cancer Research Center of Toulouse
- Smart-devices for the detection of circulating cancer biomarkers in clinical routine - Aline CERF, LAAS-CNRS (Toulouse)
- Mass spectrometry in clinical practice using hepatocellular adenomas as a proof of concept - Frédéric SALTEL, Bordeaux Research in Translational Oncology
- Glycosylation and cancer: the phostines window - Norbert BAKALARA, Institute for Neurosciences of Montpellier

17h00-18h30: 3 parallel workshops

POST-TRANSLATIONAL MODIFICATIONS AND CANCER

Chair: Olivier COUX

Lecture: Sylvie URBE, Institute of Translational Medicine, University of Liverpool (United Kingdom) - Deubiquitylases (DUBs): druggable regulators of protein and organelle homeostasis

- Targeting the ubiquitin-like molecule Nedd8 for therapeutic intervention - Dimitris XIRODIMAS, Center for Biochemical and Macromolecular Research (Montpellier)
- Hydrogen sulfide (H2S) signals through protein persulfidation - Milos FILIPOVIC, Cellular Biochemistry and Genetics Institute (Bordeaux)
- ER-resident oxidoreductase surfaces to promote liver tumor invasiveness - Manon ROS, Bordeaux Research in Translational Oncology & Institute of Molecular and Cell Biology (Bordeaux)
- The E3 ubiquitin ligase ASB2α in T helper 2 cells negatively regulates antitumor immunity in colorectal cancer - Pierre LUTZ, Institute of Pharmacology and Structural Biology (Toulouse)





16h00 – 17h00: Poster session & Coffee break

17h00-18h30: 3 parallel workshops

EDUCATION THERAPEUTIQUE



Modération : Florence SORDES

Conférence : Sandrine ROUSSEL, Université Catholique de Louvain (Belgique) - Education thérapeutique : constats, défis & applications en cancérologie

- Programme ETP « GYN and Co LR » : Évaluation d'une prise en charge précoce des troubles sexuels et fonctionnels pelviens chez les patientes traitées par curiethérapie utérovaginale ou intravaginale - Anne STOEBNER, Département des soins de support, Institut du Cancer de Montpellier
- Efficacité d'un programme d'ETP pour patients sous anticancéreux oraux - Alice DHELLEMME, Laboratoire CERPS (Toulouse)
- Recrutement d'une patiente diplômée dans le cadre d'une UTEP rattachée à un Centre de lutte contre le cancer - Emmanuelle ARFE, Institut Universitaire du Cancer Toulouse Oncopole
- Effets de la réduction du stress basée sur la pleine conscience sur « l'empowerment » du patient atteint de cancer et sur la peur de la récidive - Marion BARRAULT, Institut Bergonié (Bordeaux)

HEALTH TECHNOLOGIES



Chairs: Marie-Pierre ROLS and Hervé SEZNEC

Lectures: Frédéric FRISCOURT, European Institute of Chemistry and Biology (Bordeaux) - Towards the Selective Tagging of the Sialome for Imaging Cancer Cells - A Chemical Biology Tale

Véronique GIGOUX, Laboratory of Physics and Chemistry of Nano-Objects (Toulouse) - Targeted magnetic nanoparticles remotely induced mechanical destruction of tumor microenvironment through rotating magnetic field

6 selected talks for "Ma techno en 180 secondes" (flash-posters):

- Pulsed electric fields as key element overcoming cold-atmospheric plasma limits in cancer therapy - Elena GRISETI, Laplace Lab & Institute of Pharmacology and Structural Biology (Toulouse)
- Photodynamic therapy activity of new porphyrin-xylan-coated silica nanoparticles in a human colorectal cancer in vivo model - Ludovic BRETIN, Peirene Lab, Limoges University
- Detection of lipid droplets by MCARS microspectroscopy in cells expressing TrkB - Tiffany GUERENNE-DEL BEN, Peirene Lab, Limoges University
- Imaging of cancer cell death induced by magnetic hyperthermia - Pauline JEANJEAN, IMOTION, Bordeaux University
- Development of remotely controllable polymersomes for image guided drug-delivery - Olivier SANDRE, Organic Polymers Chemistry Laboratory (Bordeaux)
- Numerical investigation of the role of mechanical constraints on the growth of 3D tumour cells aggregates - Vincent LE MAOUT, Institute of Mechanical Engineering (Bordeaux)

18h30 – 19h30: Icebreaker & Poster session

Thursday 21st November

08h00 – 08h30: Welcome coffee

08h30-10h00: MECHANICAL CONSTRAINTS IN ONCOLOGICAL PROCESSES

Chair: Malik LUTZMANN

Lecture: Matthieu PIEL, Curie Institute (Paris) - Mechanisms and consequences of large nuclear deformation: from microchannels to breast tumors

- A new way to escape: how structural centrosome aberrations promote invasive behaviors of epithelial cells - Olivier GANIER, Institute of Human Genetics (Montpellier)
- Making, watching and stressing tumor organoids in 3D - Pierre NASSOY, Photonics, Numeric and Nanosciences Laboratory & Institut Optique Graduate School (Bordeaux)
- MAGI1 suppresses luminal breast cancer through its interaction with AMOTs and the regulation of YAP signaling - Alexandre DJIANE, Cancer Research Institute of Montpellier

10h00 – 11h00: Poster session & Coffee break

11h00-12h45: CHEMICAL BIOLOGY AND CANCER

Chair: Sébastien BRITTON

Lecture: Raphaël RODRIGUEZ, Curie Institute (Paris) - Prevalent roles of iron in cancer

- Alternative therapeutic technologies to target undruggable proteins - Muriel AMBLARD, Max Mousseron Biomolecules Institute (Montpellier)
- Programming molecules for cancer therapy - Sébastien PAPOT, Institute of Chemistry of Materials and Media of Poitiers
- Targeting cancer stem cells with antibiotics - Hélène GUILLORIT, Institute for Functional Genomics (Montpellier)
- Oligo-urea foldamers used as tools to induce apoptosis: Study case of the death receptor DR5/TRAIL-R2 - Benoit ODAERT, Institute of Chemistry and Biology of Membranes and Nano-objects (Bordeaux)

SESSIONS



08h30-10h00 : RECHERCHE INTERVENTIONNELLE (1)

Modération : Louise POTVIN

Conférence : Louise POTVIN, École de santé publique, Université de Montréal (Canada) - La recherche interventionnelle : science des solutions

Table-ronde : Linda CAMBON (UMR 1212 Bordeaux Population Health), Florence COUSSON-GELIE (Département Epidaure et Laboratoire Epsilon, Montpellier), Cyrille DELPIERRE (UMR 1027 Épidémiologie et analyses en santé publique, risques, maladie chronique et handicap, équipe Equity, Toulouse), Pierre INGRAND (Registre des cancers Poitou-Charentes, INSERM CIC 1402, Poitiers), Grégory NINOT (Plateforme CEPS, Montpellier), Philippe TERRAL (CRESCO : Centre de recherches sciences sociales sports et corps, Toulouse)

11h00-12h45 : RECHERCHE INTERVENTIONNELLE (2)

Modération : Florence COUSSON-GELIE

Conférence : Antoine DEUTSCH, Institut National du Cancer (Paris) - Les enjeux du déploiement national d'intervention probante

- Transformer l'essai de l'expertise en recherche partenariale et interventionnelle : le rôle des plateformes d'expertise universitaire en Santé Publique - Charlie MARQUIS, IFERISS (Toulouse)
- Collaboration de recherche en ETP : retour d'expérience sur les freins et leviers - Emilie GABORIT, IFERISS (Toulouse)
- Pour des interventions justes nécessaires : élaboration d'un outil d'aide au repérage et de prise en charge du retour et/ou maintien en emploi pour des femmes diagnostiquées d'un cancer du sein. Projet REWORK-BC (SIRIC ILIAD) - Bertrand PORRO, Université d'Angers et Université Paul Valéry (Montpellier)



12h45 – 14h15: Lunch break

14h15-15h45: 3 parallel workshops

GENOME DYNAMICS AND CANCER



Chair: Malik LUTZMANN

Lecture: Raphaël CECCALDI, Curie Institute (Paris) - How BRCA-deficient tumors ensure DNA replication and repair

- New synthetic lethality approaches targeting DNA safeguard pathways and the mitochondrial step of nucleotide neosynthesis (pyrimidine) in breast cancer - Stéphanie ARNOULD, Cancer Research Institute of Montpellier
- Generation of cells resistant to tyrosine kinase inhibitors in chronic myeloid leukemia by a genome editing technique - François-Xavier MAHON, CLCC Bordeaux & UMR1218 ACTION (Bordeaux)
- Spatial distribution of FTO adjusts colorectal cancer stem-like properties through RNA modification - Amandine BASTIDE, Institute for Functional Genomics (Montpellier)

TRANSLATIONAL RESEARCH, FROM BIOLOGY TO CLINICS



Chairs: Fabrice LALLOUE and Abdel-Majid KHATIB

- Resistance of Melanoma to Immune Checkpoint Inhibitors is Overcome by Targeting the Sphingosine Kinase 1 - Céline COLACIOS, Toulouse Cancer Research Centre
- Definition of new biomarkers of aggressiveness in glioma - Elise DELUCHE, Limoges University Hospital
- Mutations of the B-cell receptor pathway confer chemoresistance in primary cutaneous diffuse large B-cell lymphoma leg-type - Audrey GROS, Bordeaux Research in Translational Oncology and Bordeaux University Hospital

Selected « Flash Poster Communications »: Delphine FESSART, Camille-Charlotte BALANCA, Gro ROSLAND, Pierre CORDELIER, Fabienne SOULET, Sandrine POGLIO, Labib EL HAJJ

Lecture: Géraldine SIEGFRIED, Angiogenesis and Cancer Microenvironment Laboratory (Bordeaux) - Targeting Apelin cleavage sites for colorectal cancer treatment

ETHIQUE ET PREVENTION : ASPECTS INDIVIDUELS ET COLLECTIFS



Modération : Annie SASCO

Conférence : Emmanuelle RIAL SEBBAG, BIOETHICS - BIOethics Exploring Trajectories of Health Innovations Challenging Society (Toulouse)

- Table-ronde : Emmanuelle RIAL SEBBAG, Annie SASCO et Silviane DARQUY (Bordeaux Population Health)
- Effet du dépistage basé sur le PSA sur la mortalité par cancer de la prostate : résultats dans deux départements avec registre de cancer - Faiza BESSAOUD, Montpellier Cancer Institute
- État des lieux de l'information relative à l'oncofertilité pour les femmes jeunes atteintes d'un cancer du sein en ex-région Midi-Pyrénées : approches épidémiologique et éthique - Florian MARTINET, Épidémiologie et analyses en santé publique : risques, maladies chroniques et handicaps (Toulouse)

15h45 – 16h45: Coffee break

16h45-18h15: TRANSLATIONAL RESEARCH: FROM BIOLOGY TO SURGERY

Chair: Muriel MATHONNET

Lecture: Patrick PESSAUX, Strasbourg University Hospital - Planification-simulation-navigation: toward a precise surgery

- Digital innovations in liver surgery: toward the digital tween - Eric VIBERT, APHP - Paul Brousse Hospital (Villejuif)
- From the bench to the bedside: development of SGM-101, a CEA-targeting agent for intraoperative fluorescence imaging of colorectal carcinoma - Françoise CAILLER, SurgiMab (Montpellier)

18h15-19h00: ETHICS IN CANCER RESEARCH

Chair: Julie PANNEQUIN

Lecture: Hervé CHNEIWEISS – Inserm Ethics Committee President & Head of the Neuroscience Department (Paris) - What are the current challenging ethical issues in oncology research ?

Friday 22nd November

08h00 – 08h30: Welcome coffee

08h30-10h15: 2 parallel workshops

MICROENVIRONMENT AND INVASION

Chair: Violaine MOREAU



Lecture: Martin HUMPHRIES, Wellcome Center for Cell-Matrix Research, University of Manchester (United Kingdom) - Mechanisms of extracellular rigidity sensing via the adhesion nexus

- Glioblastoma metabolism and microenvironment: putting tumor back in context - Thomas DAUBON, Angiogenesis and Cancer Microenvironment Laboratory (Bordeaux)
- Mechanosensitive TRP channels push cancer cells invasion and metastasis formation - Aubin PENNA, Signaling and Membrane Ionic Transports Laboratory (Poitiers)
- Role of Leukaemia Inhibitory Factor (LIF) on the tumorigenic properties of Cancer Stem Cells in gastric adenocarcinoma - Lornella SEENEEVASSEN, Bordeaux Research in Translational Oncology
- Regulation of tumor-derived DNA potential to activate anti-tumor immune responses by extracellular DNases - Vanja SISIRAK, ImmunoConcEpt: Immunology from Concept and Experiments to Translation (Bordeaux)

MATHEMATICAL MODELING FOR THERAPY RESPONSE PREDICTION

Chairs: Romain LARIVE and Abdel-Majid KHATIB



Lecture: Rosa HERNANSAIZ BALLESTEROS, Institute for Computational Biomedicine (Heidelberg, Germany) - Multi-omics contextualisation of signalling pathways to identify drug targets and essential genes in cancer

- Early evaluation of cancer treatments using modeling and AI - Olivier SAUT, Institute for Research in Computer Science and Automation (Bordeaux)
- Tumor microenvironment cellular network inference and analysis from bulk and single cell transcriptomes - Jacques COLINGE, Cancer Research Institute of Montpellier
- Radio-genomics approach for therapy response prediction - Thierry COLIN, SOPHiA GENETICS (Bordeaux)

10h15 – 11h00: Coffee break

11h00-12h30: RESEARCH IN THORACIC ONCOLOGY

Chair: David SANTAMARIA

Lecture: Mariano BARBACID, Spanish National Cancer Research Center - CNIO (Madrid, Spain) - Targeting K-RAS mutant lung tumors: an unmet medical need

- Understanding and overcoming resistance to targeted therapy in lung cancer - Julien MAZIERES, Toulouse Oncopole Cancer University Institute
- Targeting acquired vulnerabilities in drug resistant BRAFV600E lung adenocarcinoma patients - Marie-Julie NOKIN, Actions for onCogenesis understanding and Target Identification in Oncology (Bordeaux)
- Notch Inhibition Overcomes Resistance to Tyrosine Kinase Inhibitors Promoted by Gate-Keeper Mutations in EGFR-Driven Lung Adenocarcinoma - Antonio MARAVER, Cancer Research Institute of Montpellier

12h30-12h45: POSTER AWARD SESSION

12h45 – 14h00: Lunch



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
15^{èmes} Journées.

Comité de Pilotage Scientifique

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

Comités de pilotage des Axes

Axe 1 - Signalisation cellulaire et Cibles thérapeutiques

N. Bourmeyster, S. Britton, O. Coux, Y. Denizot, V. D'Hondt, K. Durand, L. Karayan-Tapon, C. Laurent, N. Larmonier, J. Pannequin, D. Santamaria

Axe 2 - Dynamique du Génome et Cancer

JC. Andrau, F. Chibon, J. Dejardin, E. Julien, G. Legube, M. Lutzmann, D. McCusker, S. Millevoi, E. Pinaud

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

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

Axe 4 - Cancers : enjeux individuels et collectifs

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

Axe 5 - Technologies pour la santé

A. Bancaud, M. Bardies, S. Bégu, M. Busson, L. Cognet, A. Collin, P. Cordelier, D. Cornu, 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. Sezne, V. Sol

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Ces journées bénéficient du soutien de :

