

Imaging and therapeutic targeting in cancerology:

New advances and trends in **preclinical** and **clinical** studies



Manoir de Kerdréan



Gulf of Morbihan, France

Twelfth edition of the workshop
Manoir de Kerdréan, Le Bono, France
September 26th - 29th, 2018

Program

Wednesday September 26th

Registration opened at 17:30

- 18:40** **Opening of the workshop:** Organizing committee
- 18:45 – 18:55** **Presentation of the "Tumour Targeting & Radiotherapies network" of the Canceropôle Grand Ouest.**
Dimitris Visvikis, LaTIM, National Institute of Health & Clinical Sciences (INSERM), Brest, **France**.
- 18:55 – 19:05** *sponsors communications*
- "Integration of Nantes translational research in nuclear medicine in the SIRIC ILIAD, a success story"**
&
**"From IRON to IGO
Nuclear Medecine: imaging and therapy for cancer, neurology and immune response"** **Michel Chérel**, CRCINA, Nantes, **France**.
- 19:05 – 20:00** Plenary conference:
"Nanogalenic and therapeutic innovation"
Patrick Couvreur, Institut Galien, UMR CNRS 8612, Paris Saclay University, Chatenay Malabry, **France**.
- 20:15** *Dinner*

Thursday September 27th

- Session 1:** How to identify an adequate target?
- Session 1a:** How to identify a target in the case of tumour targeting?
- 9:00 - 9:40** Invited speaker: **Alexander Satz, Roche, Switzerland.**
"Hit-finding strategies: from high-throughput screening to DNA-encoded libraries"
- 9:40 - 10:20** **Isaline Renard, Hull, United Kingdom.**
"Synthesis and biological validation of macrocyclic CXCR4 and ACKR3 binding agents for PET imaging and therapeutic applications in cancer"
- Joana F. Guerreiro, Lisboa, Portugal.**
"Radiobiological characterization of ⁶⁴CuCl₂ for prostate cancer theranostics"
- 10:20 – 10:30** *sponsor communication*
"Integrated high performance 4x4D imaging: SPECT, PET, Optical & X-ray CT" **Adam Badar, MILabs.**
- 10:30 – 11:00** *Poster session & Coffee Break*
- 11:00 – 12:00** **Sainza Lores, Santiago de Compostela, Spain.**
"A versatile nanoemulsion for functionalization with different specific ligands for targeted drug delivery"
- Mohamed Altai, Uppsala, Sweden.**
"New approaches for the utilization of Affibody molecules in cancer therapy: reviving an old dream"
- Hassan Chaddad, Strasbourg, France.**
"Combining 2D angiogenesis and 3D Osteosarcoma microtissues to improve vascularization"
- 12:15** *Lunch*

Session 1b: How to choose a target for antitumour immune response?

14:00 – 14:30: Invited speaker: **Nathalie Labarrière**, CRCINA, Nantes Angers Cancer and Immunology Research Center, UMR INSERM 1232, Nantes, France.

"MELOE-1 antigen: a model of immunogenic target for melanoma immunotherapy"

14:30 – 15:30 **Clarize. M. de Korne**, Leiden, **The Netherlands.**

"Relationship between the Location of Intraprostatic Hybrid Tracer Deposition and Lymph Node Visualization"

Lucine Marotte, Nantes, **France.**

"Inactivation of PD-1 gene in melanoma-specific CD8+ T lymphocytes"

Marisa Fernandes – Capitaó, Nantes, **France.**

"Alpha-Radioimmunotherapy targeting PD-L1 in melanoma"

15:30 – 16:00 *Coffee break*

16:00 – 17:00 **Emilie Dupré**, Nantes, **France.**

"A novel strategy to identify melanoma antigens from long non coding RNA"

Justine Perrin, Nantes, **France.**

"Impact of RIT-alpha on the tumor microenvironment"

Linda Bilonda, Nantes, **France.**

"The inflammasome of tumor cells in colorectal cancer: a potential target to strengthen the Th1/Tc1 response of tumor infiltrating T lymphocytes (TILs)"

19:00 *"Breton" aperitif with music from Brittany with Diskuizh group*

20:00 *Dinner*

Friday September 28th

Session 2: What are strategies to reach a tumour target?

9:00 - 9:40: Invited speaker: **Stefania Galdiero**, Department of Pharmacy, University of Naples “Federico II”, **Italy**.
“**Peptides like drones: identify and reach the target**”

9:40 – 10:20 **Léna Guyon**, Angers, **France**.
“Self-assembly of prodrugs formed by cell-penetrating peptide and ferrocifen for lung cancer treatment”

Sanaa Ben Djemaa, Tours, **France**.
“Down-regulation efficiency and intracellular trafficking of siRNA nanovectors for triple negative breast cancer treatment”

10:20 – 11:00 *Poster session & Coffee Break*

11:00 – 12:00 **Vincent Pautu**, Angers, **France**.
“Targeting melanoma tumor cells with pH-responsive lipid nanocapsules: in vitro and in vivo studies”

Muhammad Haji Mansor, Angers, **France**.
“Targeting the SDF-1 α /CXCR4 Signalling Axis for Trapping of Glioblastoma Cells”

Gabrielle van Caloen, Brussels, **Belgium**.
“Preclinical CDK4/6 inhibition for Squamous Cell Carcinoma of the Head and Neck (SCCHN)”

12:15 *Lunch*

- 14:00 – 14:40:** Invited speaker: **Patrick Chames**, CRCM Cancer Research Center of Marseille, UMR INSERM 1068 CNRS 7258 & University of Aix-Marseille, Marseille, **France**.
"Small is beautiful: Single domain antibodies for cancer diagnostic and therapy"
- 14:40 – 16:00** **Rémi Cousin**, La Rochelle, **France**.
"Inhibition of heparanase-mediated tumor progression by natural sulfated polysaccharide derivatives"
- Aurélien Corroyer-Dulmont**, Caen, **France**.
"Hypoxia imaging: interest of Image-Guided Radiotherapy for the treatment of brain metastases from lung cancer, a preclinical study"
- Alice D'Onofrio**, Lisboa, **Portugal**.
"Theranostic agents for TEM1 targeting: towards clickable radioimmunoconjugates"
- Javad Garousi**, Uppsala, **Sweden**.
"Optimization of ADAPT6, a new scaffold protein-based probe for radionuclide molecular imaging of cancer"
- 16:00** *Coffee break*
- 17:00** *Departure by the bus for walking tour on the island "L'île aux Moines" and a cruise dinner in the Morbihan gulf*

Saturday September 29th

Session 3: Input of imaging in the follow-up of a tumour targeting & advances of multimodality for imaging and therapy

- 9:00 - 9:30** Invited speaker: **Rafael T.M. de Rosales**, Division of Imaging Sciences and Biomedical Engineering, King's College London, St. Thomas' Hospital, London, **United-Kingdom**.
“Integrating PET imaging with Nanomedicine for gammadelta T-cell Immunotherapy”
- 9:30 - 10:30** **Nikolett Hegedűs**, Budapest, **Hungary**.
“Intracranial glioblastoma follow-up study by multimodal imaging methods”
- Gwladys Nizou**, Brest, **France**.
“Stable and inert lanthanide(III) complexes with pyclen-based ligand bearing picolinate arms for liver cancer diagnostic and therapy”
- Sandra Díez-Villares**, Santiago de Compostela, **Spain**.
“Multimodal nanoemulsions for whole-body imaging in metastatic cancer”
- 10:30 – 10:50** *Coffee Break*
- 10:50 – 11:50** **Océane Florès**, Dijon, **France**.
“In vitro and in vivo trackable titanocene-based complexes using optical imaging or SPECT”
- Jonathan Mendy**, Brest, **France**.
“New Cu(II)-based monopicolinate cyclam derivatives for theranostic PET/PDT applications”
- Océane Champion**, Reims, **France**.
“Au@DTDTPA(Gd)-Cy5 nanoparticles for multimodality imaging in a Triple Negative Breast Cancer (TNBC) model”
- 12:00** *Lunch*
- 13:10** *End of the workshop – Departure of the bus*



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