



SUBSIDES 2019

LES PROJETS DE RECHERCHE

- The benefit of reactivating p53 under MAPK inhibition on the efficacy of radiotherapy in melanoma. **Pr Ghanem / Pr Van Gestel**
- Circulating tumor DNA to monitor tumor evolution in breast cancer, a pilot study. **Dr Ignatiadis / Pr Sotiriou**
- Talking about uncertainty and hope in oncology: a randomized controlled trial assessing the efficacy of a communication skills training program designed for physicians. **Pr Razavi**
- The IJB Cytometry Lab : A critical facility for studying heterogeneity in the cancer microenvironment. **Dr Willard-Gallo/ Pr Bron/ Pr Sotiriou**
- Changes in Lung Function Parameters after Radiotherapy for Node-positive Breast Cancer with VMAT or fixed-field IMRT: a Prospective Randomised Clinical Trial. **Pr Van Gestel**
- Preoperative treatment with FOLFIRINOX, Stereotactic Radiotherapy (SBRT) and anti-PD-L1 immunotherapy for borderline or unresectable pancreatic cancer : a feasibility and proof of concept study. **Dr Moretti / Dr Van Laethem / Pr Van Gestel / Dr Hendlisz / Dr Willard-Gallo**
- A phase I selective dose escalation study of pelvic irradiation using volumetric modulated arc therapy for patients with locally advanced

Avec un soutien de plus de 3,8 millions d'euros à la recherche en 2019 -le montant le plus important depuis leur création-, « Les Amis » s'imposent plus que jamais comme le 1er donateur privé de l'Institut Bordet. Ce montant exceptionnel a permis aux chercheurs de poursuivre leurs travaux et d'en initier de nouveaux, porteurs d'espoir pour les malades.

rectal cancer. **Pr Van Gestel / Dr Somoano / Dr Rodrigues Sousa / Dr Jourani**

- Liquid Biopsy Assessment for Monitoring Advanced Pancreatic cancer (Limonade-P study). **Pr Hendlisz**
- Characterization of stromal cell-derived extracellular vesicles from healthy donors and chronic lymphocytic leukemia patients defined by transcriptome, miRNome, proteome and functional analysis. **Dr Lagneaux**
- Implementation of a Clinical Decision-Support System -> Ray-Search. **Dr Reynaert / Pr Van Gestel**
- microRNA and regulatory T Lymphocytes in AML. **Dr Lewalle / Dr Fayyad-Kazan**
- Cough-related acoustic features as an innovative, ecological and valid assessment method for dysphagia in head and neck cancer patients. **Pr Van Gestel**
- A prospective phase II study to evaluate the safety and efficacy of the combination of both ¹⁷⁷Lu-PSMA-617 and Enzalutamide in metastatic castrate resistant prostate cancer patients. (The LuPE Trial). **Pr Flamen**
- PET-probe anti Granzyme B as a new imaging biomarker for immune checkpoints inhibitors response assessment. **Pr Flamen / Dr Wimana**
- Stereotactic body radiotherapy, immune response and abscopal effect in clear cell renal carcinoma: a murine model. **Dr Otte / Pr Van Gestel**

■ Immunotherapy and/or chemotherapy as neoadjuvant treatment in urothelial carcinoma. **Pr Awada**

■ Clinical, pathological and genomic characterization of de novo oligometastatic breast cancer. **Dr Desmedt/ Pr Sotiriou**

■ Communication about uncertainty and hope: A randomized controlled trial assessing the efficacy of a communication skills training program for physicians caring for cancer patients. **Pr Razavi / Pr Libert**

■ Children facing parental cancer: a randomized controlled study evaluating the efficacy of a psychological intervention to support parenting. **A. Liénard / Pr Merckaert**

■ Improving emotion regulation of patients with hematologic cancer: A randomized controlled study assessing the impact of a multi-component psychological group intervention. **Pr Merckaert / Pr Razavi**

■ Real-time assessment of radiotracer properties using the novel LigandTracer technology: Improving combinatorial treatment using molecular imaging with radiopharmaceuticals. **Dr Wimana / Pr Ghanem**

■ Cotargeting MEK/p53/Bcl2 in NRAS melanoma. **Pr Ghanem / Pr Awada**

■ Determinants of therapeutic adherence to oral antineoplastic agents in migrants and ethnic minorities with hematological malignancies. **Pr Bron**

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- Impact of Chronic Lymphocytic Leukemia extracellular vesicles on microenvironment immune cells. **Dr Stamatopoulos**
- Extracellular vesicles derived from umbilical cord-mesenchymal stromal cells for targeted therapy in pancreatic cancer. **Dr Lagneaux**
- Integrative multi-omic analysis: towards treatment de-escalation for early stage HER2-positive breast cancer. **Pr Sotiriou**
- Integrated genome-wide molecular profiling of triple negative breast cancer and its microenvironment with spatial transcriptomics. **Pr Sotiriou**
- Preclinical evaluation of CDK4/6 inhibitory drugs as potential treatment for aggressive/advanced thyroid cancers. **Dr Costante**
- HIV infection in breast cancer patients: impact on tumor microenvironment and prognosis. **Dr Buisseret**
- Communication about uncertainty and hope: A randomized controlled trial assessing the efficacy of a communication skills training program for physicians caring for cancer patients. **Pr Razavi/ Pr Libert**
- Regorafenib Action and Resistance Mechanisms in Colorectal Cancer (CRC). **Pr Hendlisz**
- Immune biomarker discovery in blood and tissues from cancer patients treated with immunotherapy. **Dr Willard-Gallo**
- Improving emotion regulation of patients with hematologic cancer: A randomized controlled study assessing the impact of a multi-component psychological group intervention. **Pr Merkaert/ Pr Razavi**

- Single Cell transcriptomic analysis of T-lymphocytes before and after radiation therapy in luminal B breast cancer. **Dr Ignatidis**
- Children facing parental cancer: a randomized controlled study evaluating the efficacy of a psychological intervention to support parenting. **A. Lienard / Pr Merkaert**
- Family support in the context of parental cancer: evaluation of the impact of an intervention developed at the Institut Jules Bordet. **A. Lienard/ Pr Razavi**
- The tumour microenvironment in treatment-naïve pancreatic adenocarcinoma and following different neo-adjuvant treatments. **Dr Moretti/ Pr Van Gestel**
- Determinants of therapeutic adherence to oral antineoplastic agents in Migrants and Ethnic Minorities with hematological malignancies. **Pr Bron**
- The BrainStorm leptomeningeal study in patients with leptomeningeal metastases (LM) from solid tumors : A substudy of the « BrainStorm » Brain Metastases Clinical Research Platform. **Pr Awada/ Dr Kotecki**
- Benefit of Next Generation Sequencing using a large genes panel for patients with advanced stage or metastatic solid tumor. **Dr Aftimos/ Pr Larsimont**
- Evaluation of presurgical pregabalin treatment on tumoral neuropeptides concentration and tumoral nerve density in stage II/III colorectal cancer: A discovery cohort. **Pr Sosnowski/ Pr Demetter**
- Evaluating the contribution of breast cancer metastases to the profile of plasma circulating tumor DNA. **Pr Sotiriou**

- Data Centre
- Immunological potential of p53 activation combined to stereotactic irradiation in PDXs humanized pre-clinical mouse models (AVATAR) **Pr Ghanem/ Pr Van Gestel**
- ProCaLu – Project on Cancer of Lung: a Quality Assurance Program for Stage III NSCLC Chemoradiotherapy. **Dr Moretti / Pr Van Gestel**

LE SOUTIEN À L'ACQUISITION D'ÉQUIPEMENT DE POINTE AU SERVICE DE LA RECHERCHE

« Les Amis » ont financé en 2019 un appareil 10X Genomics Chromium permettant aux chercheurs d'étudier le génome des cellules tumorales à un niveau sans précédent, celui de la cellule unique.

LES BOURSES À DE JEUNES CHERCHEURS PROMETTEURS

- « La Bourse Jean-Claude Heuson » a été attribuée à **David Gacquer PhD**, un jeune bio-informaticien spécialisé en intelligence artificielle.
- « La Bourse Jeunes Talents » a permis au **Dr Laurence Buisseret** de poursuivre ses travaux sur de nouveaux bio-marqueurs susceptibles de prédire la réponse de certains cancers aux immunothérapies.
- Grâce à la « Bourse Rucquois », le **Dr Marie Vercruyssen** a rejoint pour un an le service du Pr Paul Moss à l'Université de Birmingham (UK) pour y travailler sur les immunothérapies dans le traitement de certaines leucémies.