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More information



Jules Bordet Radiotheranostic Center of Excellence

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Targeted Radionuclide Therapy (TRT) is a novel oncologic systemic treatment based on the theranostic principle: the combination of diagnostics and therapy into a single approach, using radiopharmaceuticals to both detect and treat diseases. This approach has experienced an exponential increased interest in the recent years after the publication of several phase 3 trials proving its efficacy and survival benefit, leading to the development of multiple new radiopharmaceuticals. However this molecules need to go through different steps before approval, from preclinical studies, early phase safety and optimal dose studies to randomized clinical trials.

The Jules Bordet Radiotheranostics Centre of Excellence is fully equipped to deliver this innovative treatment under optimal conditions, featuring: dedicated innovative treatment modality in optimal conditions fullfilling with multiple regulatory requirements: dedicated hospital isolation rooms for patients undergoing treatment; a GMP-certified laboratory for the production of high-quality radiolabelled pharmaceuticals; state-of-the-art imaging equipment, including last generation digital SPECT/CT and PET/CT scanners. The Jules Bordet Institute is proud to be at the forefront of this transformative approach to cancer care.



1 CUTTING-EDGE EQUIPMENT

2 EXPERTISE IN RADIONUCLIDE THERAPY

3 GMP-GRADE RADIOPHARMACY

4 PRECLINICAL DEVELOPMENT



INFRASTRUCTURE

- 3 digital PET/CT scanners, including 1 dedicated to research
- Dedicated metabolic rooms for Radionuclide Therapy
- 5 SPECT/CT (including cutting-edge 360° digital CZT cameras)
- Clinical Trial Center conducting high-quality, patient-focused research
- Upcoming Clinical Trial Network in Nuclear Medicine



TRT EXPERTISE

- Experienced nuclear medicine physicians with a strong research background in TRT
- Proven expertise in early-phase clinical trials
- Advanced TRT dosimetry and radioprotection capabilities
- A dedicated research team, including specialized nurses, imaging technologists, and lab technologists
- Comprehensive Imaging Core Lab services



RADIOPHARMACY

- Cyclotron and Radiopharmaceutical Generators (Ga68, Tc99m,...)
- CDMO activity: development and manufacturing of radiopharmaceuticals
- Production of over 600 doses/year
- Over 2,000 PET/CT diagnostic scans annually using a variety of radiotracers



PRECLINICAL LAB

- Preclinical evaluation of novel radiopharmaceuticals
- Biodistribution, pharmacokinetics and toxicity studies
- Special focus on Radiobiology
- Access to advanced equipment: MicroPET, MicroSPECT, MicroCT, and micro-irradiator
- Expertise in xenograft mouse models