Multi-level Integration of Pathogen Imaging

PET/MRI/CT/BLI

• Identifying the co-localization of HIV and experimental anti-retrovirals
• Tracking a supermagnetic iron oxide (SPIO) nanoparticle-labeled immunotherapeutic dendritic cell (DC)-based cancer vaccine from the site of injection to the target draining lymph node by cellular MRI
• Bacterial replication and protein expression patterns during interactions of S. aureus with immune cells during infections

The ImPaKT team of investigators successfully competed for a large Infrastructure CFI grant. This award is being used to fund the purchase of the equipment to be used within the facility.

Researchers from Schulich School of Medicine & Dentistry, Robarts Research Institute and Lawson Health Research Institute will work collaboratively in the ImPaKT Facility.

The Schulich School of Medicine & Dentistry at Western University has made a significant investment into ImPaKT, creating a fully renovated space specifically designed to meet facility requirements.

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Partner with the ImPaKT team:

• Use a state-of-the-art facility for your experiments and projects
• Collaborate with our team of experts to advance your research
• Utilize our facility for long term imaging of animals/cells and infectious agents that require CL2+/CL3 containment

Multiphoton Microscopy

• Tracking T-cells during latent HIV infection
• Recording B- and T-cell interactions in the brain of a mouse multiple sclerosis model
• Tracking metastatic cancer, mapping tumour vascularization, and testing potential therapies that limit angiogenesis

High Resolution Microscopy

• Defining the subcellular localization of HIV proteins and understanding how to bring HIV out of hiding
• Utilizing genetically engineered macrophages that express molecular reporters of macrophage function, tracking responses to invading bacterial and viral pathogens
• Defining the basis, at the molecular level, of how MRSA avoids immune killing

Facility Contact

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Petri Dish

Multiphoton Microscopy

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ImPaKT Team

State-of-the-Art Imaging of Infectious Disease

The ImPaKT Facility is ideally located at the heart of Western University at the ImPaKT Imaging Pathogens for Knowledge Translation Facility. Researchers at Western University are at the forefront of developing whole body imaging modalities, including multiphoton confocal microscopy.

ImPaKT Imaging Pathogens for Knowledge Translation Facility

Researchers at Western University are at the forefront of developing state-of-the-art imaging technologies to revolutionize the diagnosis, monitoring and treatment of infectious diseases and immune-mediated disorders.

Multi-modality Imaging and Research Tools

Imaging is an advanced tool for drug discovery. It is critical to many areas of infectious disease research with real-time tracking of infectious agents and monitoring immune responses simultaneously.

ImPaKT Facility

Researchers at Western University are at the forefront of developing whole body imaging modalities, including multiphoton confocal microscopy.

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