

Washington University School of Medicine Small-Animal Cancer Imaging (SACI)

Website: <https://siteman.wustl.edu/research/shared-resources-cores/small-animal-cancer-imaging-saci/>

Nuclear Medicine Imaging Services

Multi-Modal PET Imaging and Related Equipment

- Siemens microPET F220 animal PET scanner.
- Siemens Inveon MM PET/CT scanner.
- MR Solutions simultaneous PET/MR scanner (expected in CY2017).
- GE Typhoon FLA 9500 Biomolecular Imager.
- Perkin Elmer Caliper IVIS Bioluminescence/Cerenkov Imager.
- C-arm portable X-ray imaging for large animals.

Services

- Specialized surgical/technical procedures.
- Consultation on study design and protocol development.
- Project coordination (with cyclotron, radiochemists, DCM housing, and other investigators) to facilitate projects.
- Cancer cell lines and tumor inoculation (the facility maintains over 60 human and murine cancer cell lines to facilitate cancer imaging research).
- Biodistribution studies.
- Radiation dosimetry studies.
- Image analysis (facility supported or collaborative, depending on complexity).
- Assistance in the preparation of grant applications and manuscripts.

Collaborative Services

- Antibody/peptide radiolabeling.
- Small-molecule imaging probe development.
- Radiolabeling and imaging of drug pharmacokinetics.
- Radiotracer metabolite analysis.
- Pharmacokinetic/pharmacodynamic quantification and modeling.

Facility Support Equipment and Resources

- Macrotome, refrigerators, gamma counters, HPLC.
- Short-term animal housing for RAM decay.
- Image-analysis station for facility users.
- Animal physiology monitoring equipment.

Contacts

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