## PET Imaging Center

More info: <https://research.missouri.edu/pet-imaging-center>

The PET/CT Imaging Center is a crucial component and important tool in the effort to embrace science at the intersection of humans, animals and the ecosystem. The center includes a combination positron emission tomography (PET) scanner and computed tomography (CT) – the PET/CT system – that improves accuracy and speed in the diagnosis and treatment of cancer, vascular disorders, and Lou Gehrig’s disease, among others. The equipment allows researchers, oncologists, neurologists, internal medicine specialists, and surgeons to provide a new level of care to current patients. It also provides a powerful tool in current animal clinical trials, including cancer and neurology trials that ultimately lead to advancements in animals and humans. University researchers participate in the NCI Comparative Oncology PET Imaging program with other academic centers around the country.

The PIC’s Canon/Toshiba Celesteion PET/CT system housed in the “Pops and Tango McCosh” PET imaging suite includes a 90cm wide CT bore and 70cm true-field of view for better access and positioning. Imalytics is a workstation that consists of a flexible modular system with standard and advanced tools for data and workflow management, image registration, segmentation, processing, visualization, and processing quantitative measurements. The workstation is a component in the PET/CT suite. Radiation Isolation is a step-down recovery unit designed to keep animals exposed to radiation separate from the rest of the Veterinary Health Center. It contains separate units for long-lived and short-lived radiopharmaceuticals.