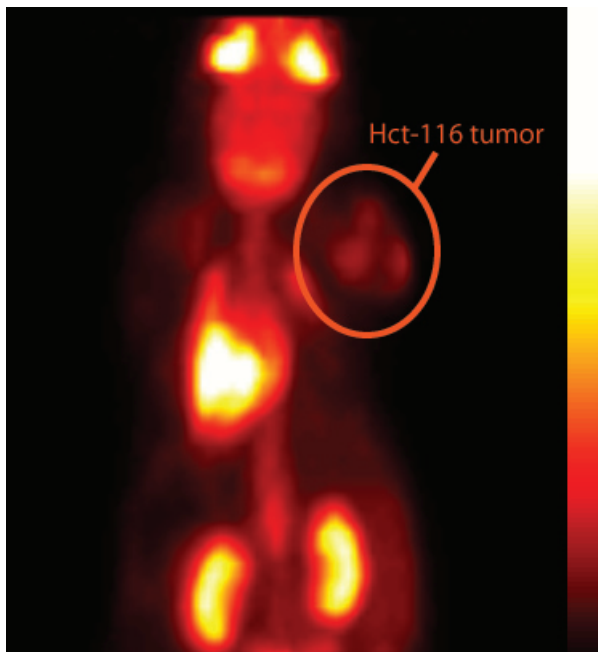


The Keck-UNM Small-Animal Imaging Resource (KUSAIR) offers researchers expertise and facilities for preclinical in vivo imaging.



above: ¹⁸F-FDG

K U S A I R F O C U S

The mission of KUSAIR is to promote the application of quantitative small-animal in vivo imaging to ask and answer important questions leading to improved diagnosis and treatment of human diseases.



UNM
COLLEGE of PHARMACY

The KUSAIR is a core facility of the NCI-designated UNM Cancer Research and Treatment Center and is located within the UNM College of Pharmacy on the campus of the University of New Mexico Health Sciences Center in Albuquerque, New Mexico.



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advancing
drug discovery
and development
through
molecular
imaging
since 2006



Keck-UNM Small-Animal Imaging Resource

K U S A I R G O A L S

- **Research:** To provide high quality, cost-effective, and customer-specific services to investigators that will advance their research efforts.
- **Collaboration:** To promote collaborations between different disciplines related to animal models in research such as basic biology, drug discovery and development, medicine, engineering, biostatistics, and imaging.
- **Education & Training:** To provide education to investigators considering animal models and imaging experiments and needing assistance with experimental design, protocol preparation, and data analysis. To provide hands-on training and technical expertise related to animal models and imaging.

Best-In-Class SPECT and PET Image Resolution

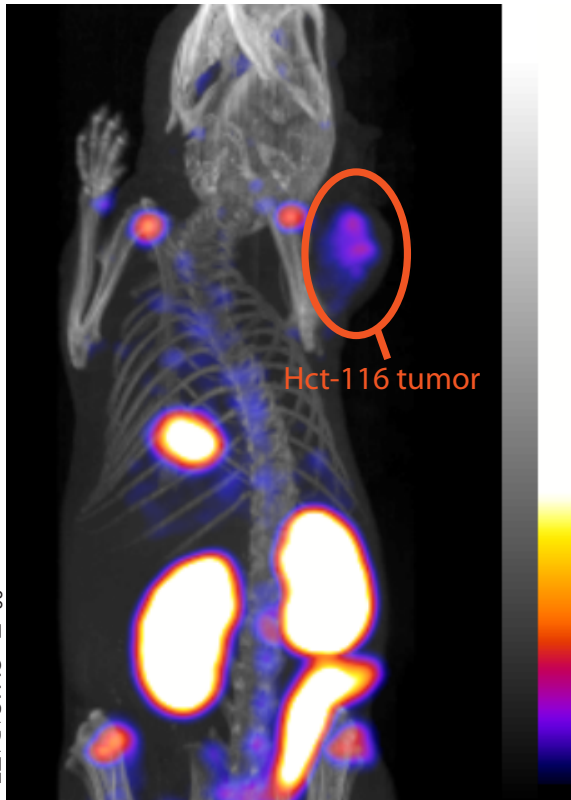
W H Y K U S A I R ?

- Thousands of small-animal in vivo images performed to date
- High-throughput in vitro and in vivo molecular screening studies
- Probe sensitivity $<10^{-15}$ moles
- Rapid turnaround for contract research
- Expert staff
- Enhanced data analysis
- Experience with pharmaceutical and biotech companies
- GLP-compliant preclinical studies

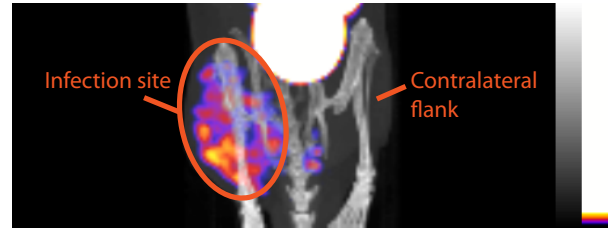
State-Of-The-Art Imaging Equipment and Facilities

R E S O U R C E S

- **NanoSPECT/CT[®]** small-animal SPECT/CT system with <1.0 mm resolution
- **LabPET8.0[®]** avalanche photodiode based small-animal PET imaging system
- **Radiochemistry lab** with cGMP-compliant personnel, equipment, and facilities
- **Tissue culture** for in-house in vitro to in vivo translation of human diseases
- **Vivarium** with IUCAC-compliant, dedicated space for small-animal radiotracer studies
- **Wallac-Wizard 1480** gamma well counter



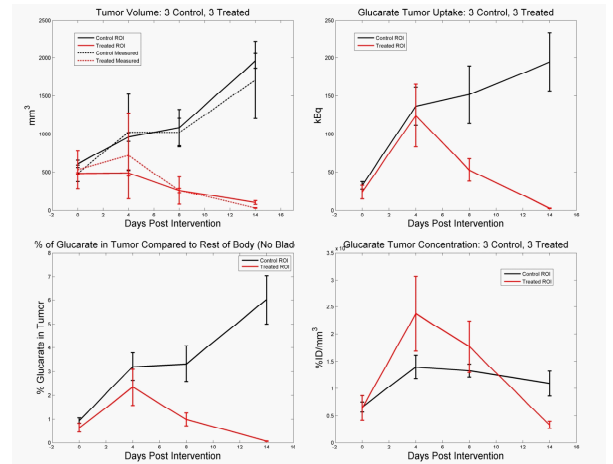
below: ¹¹¹In-LFA-1 targeted small-molecule



C A P A B I L I T I E S

- Preclinical SPECT/CT/PET imaging studies
- Quantitative preclinical in vivo imaging
- Biodistribution studies
- Pharmacokinetic modeling
- Xenograph tumor models
- Cellular and molecular assays
- Studies of drug effects
- Dose-ranging studies
- Late-radiation effects

Your One-Stop for Preclinical In Vivo Molecular Screening



above: Monitoring HCT-116 tumor response using ^{99m}Tc-Glucarate in vivo imaging: mean + SE