

CTI Small Animal Imaging Core Services Request Form

PI:

Email:

Project leader:

Email:

Chart string number:

Animal Species

Mouse

Phantoms

Rat

Material

Rabbit

Organoids/cell constructs:

Ex-vivo Tissue

Other (specify)

If requesting live imaging of animals, answer the following questions:

Approved Animal Study Protocol #

Is it approved for imaging in the CTI Core:

How many animals approximately.

Area of the body to be imaged (Select all that apply):

Tumor

Anatomical Location:

Single tumor or metastases:

Brain

Flank

Abdomen

Musculo/skeletal

Liver

Kidneys

Bladder

Other (specify):

Nanoparticles

Implants

%Magnetic Resonance Imaging

Please describe briefly the main objectives/questions you are looking to answer through MRI.

Single Imaging Session: **Yes** **No**

Longitudinal Imaging

Please specify time points:

Is a specific animal set-up requested/needed: **Yes** **No**

Respiratory gating Not sure

Cardiac gating Other please specify:

Please answer question below as best as possible.

Expected spatial resolution:

What MRI parameters are you interested in:

T1, T2, T2*, Diffusion Weighted Imaging, proton density, dynamic contrast MRI

Others (please specify):

Not sure

Will a contrast agent be used? **Yes** **No**

Magnevist (Gadolinium based. Provided by the core)

Nanoparticles

Under development, Please specify:

Commercially available, Please specify:

Not sure

Will you need image processing and analysis? **Yes** **No**

Do you have a sample/subject for a pilot imaging session (free of charge) **Yes** **No**

Please share any relevant information and references related to this project

Are you looking to be trained on the MR Bruker system? **Yes** **No**

If animal work is involved, please specify who will do the animal set-up:

2) Micro-Positron Emission Tomography

Please share any relevant information and references related to this project.

Please describe briefly the main objectives/questions you are looking to answer through PET imaging.

Single Imaging Session: **Yes** **No**

Longitudinal Imaging

Please specify time points:

Is a specific animal set-up requested/needed:

Respiratory gating

Cardiac gating

Not sure

Please answer question below as best as possible.

What contrast agent will be used?

FDG – commercially available

FEPPA – research tracer

FLT – research tracer

FMISO – research tracer

Other commercially available agent, Please Specify:

Custom developed contrast agent, Please specify:

I need help identifying a radiochemistry group/collaborator to produce my tracer / Not sure which one I need

Will you need image processing and analysis? **Yes** **No**

PLEASE NOTE:

- **Commercially available radiotracers are usually readily available, while research radiotracers are not readily available, need to be scheduled in advanced with the production facility and may not be available on desired days. They are also delivered late morning/early afternoon thus limiting the number of subjects that can be imaged in one day.**
- **For new projects, a pilot imaging session may be required. A charge may be incurred by the PI to cover the cost of the radiotracer purchase and delivery.**

3) Micro Computed Tomography (micro CT)

Please describe briefly the main objectives/questions you are looking to answer through CT imaging.

Please share any relevant information and references related to this project.

Single Imaging Session: **Yes** **No**

Longitudinal Imaging

Please specify time points:

Is a specific animal set-up requested/needed:

Respiratory gating

Cardiac gating

Not sure

What is the spatial resolution requested?

Will a contrast agent be used?

Omnipaque

Nanoparticles – commercially available, Please specify:

Research nanoparticles, Please specify:

Other, Please specify: