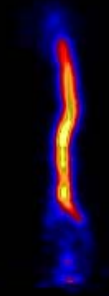
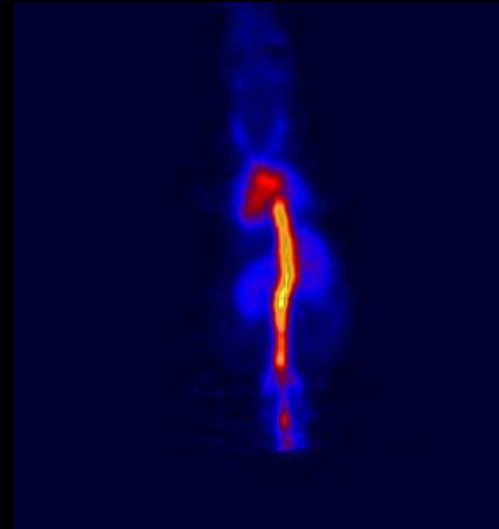


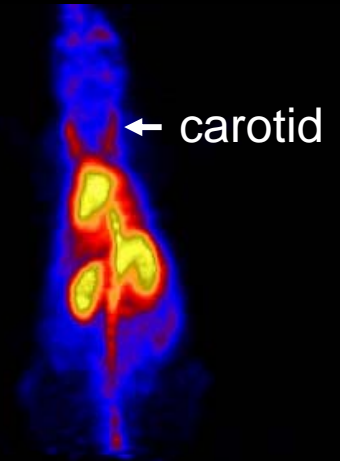
15 sec p.i.



30 sec p.i.



60 sec p.i.

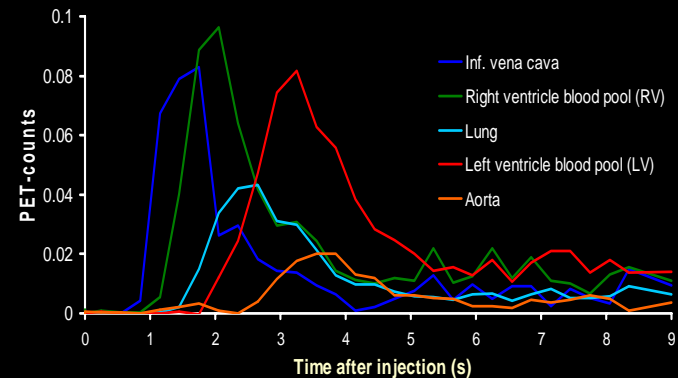
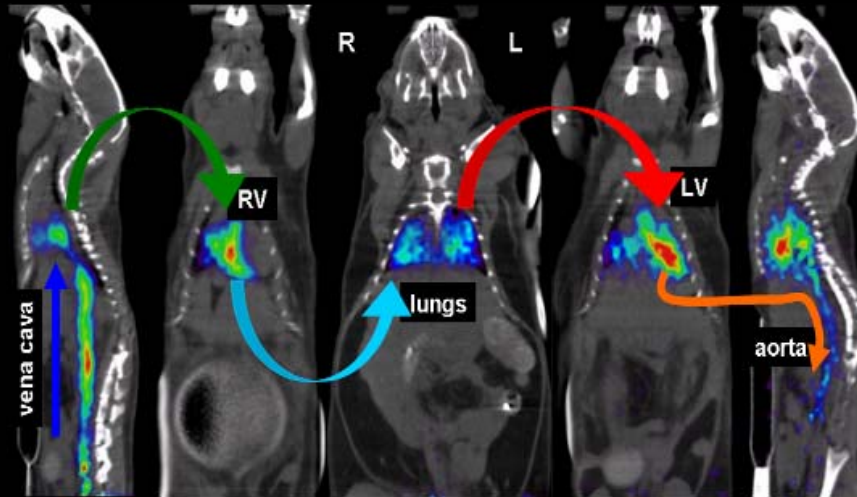


## Vascular Dynamic Imaging by [ $^{18}\text{F}$ ]FAZA

- microPET® FOCUS 120
- „on bed“ injection by a „butterfly“ catheter of 400  $\mu\text{Ci}$  [ $^{18}\text{F}$ ]FAZA
- 15 sec frames

Data courtesy of Dr. Bernd Pichler, Laboratory for Preclinical Imaging & Imaging Technology

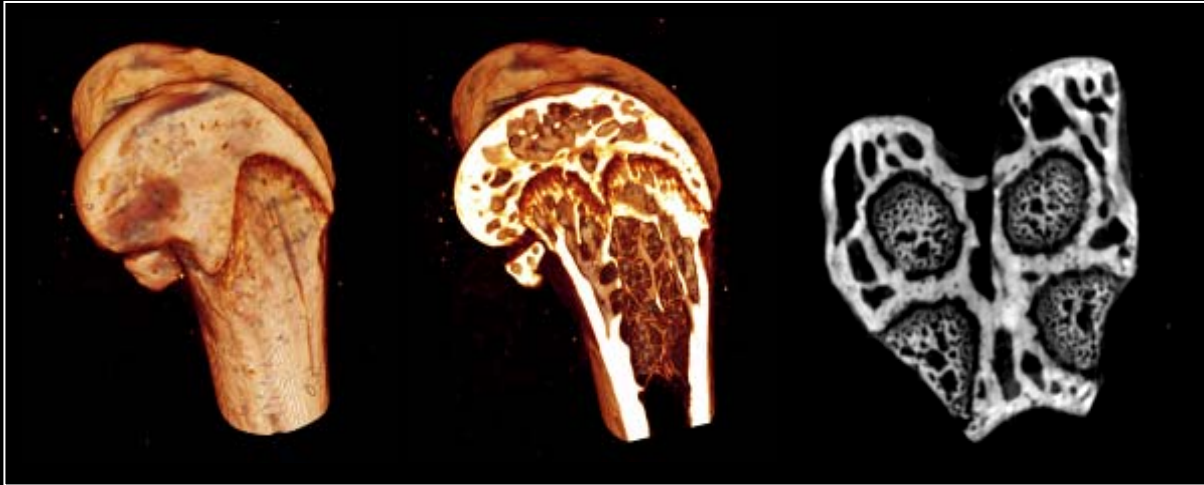
# microCAT® & microPET® Fused Images



## First pass angiography in mice by ultra high temporal resolution microPET® fused with microCAT®

35g male mouse, Injected dose: 1.1mCi [<sup>18</sup>F]FDG

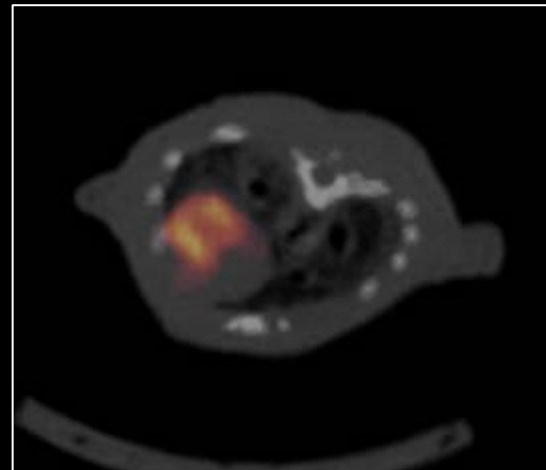
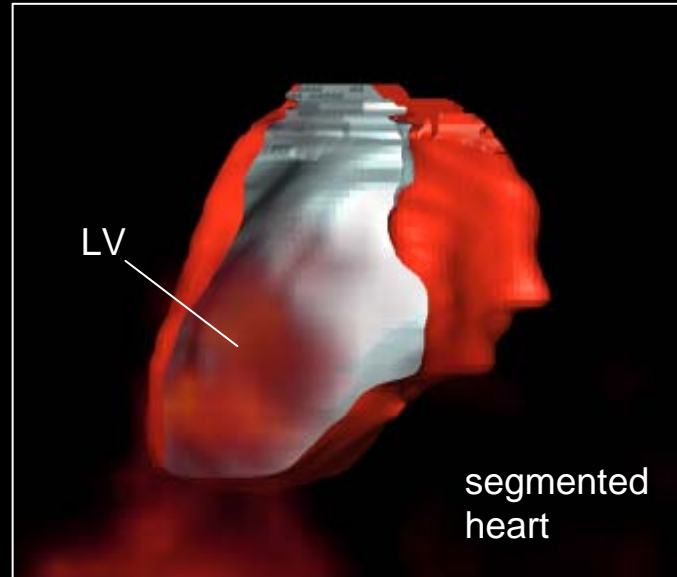
Data courtesy of UCLA Crump Institute for Molecular Imaging, Michael Kreissl MD, Hsiao-Ming Wu Ph.D., David Stout Ph.D., Patrick L Chow MS, Arion Chatzioannou Ph.D., Sung-Cheng Huang DSc, Heinrich R. Schelbert MD Ph.D.



**microCAT® Field of View for the whole animal  
Resolution for the finest detail**

Data acquired with a microCAT II in vivo scanner with optional microfocus x-ray source.

**microCAT<sup>®</sup> + SPECT**



**microCAT<sup>®</sup> + SPECT**  
**<sup>99m</sup>Tc Sestamibi**

Data courtesy of University of Tennessee Graduate School of Medicine, Dr. Jon Wall



## CT scanning of fetal skeletal analysis in reproductive toxicology studies.

### Purpose of Study:

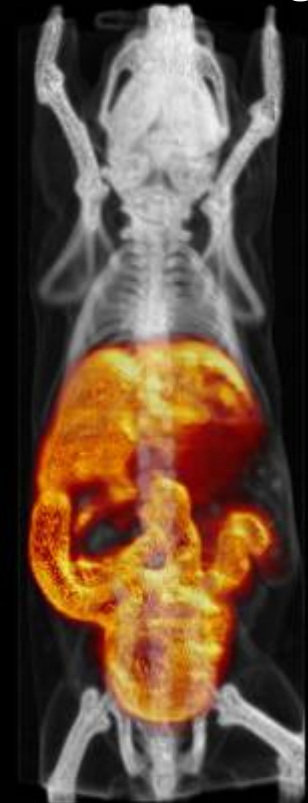
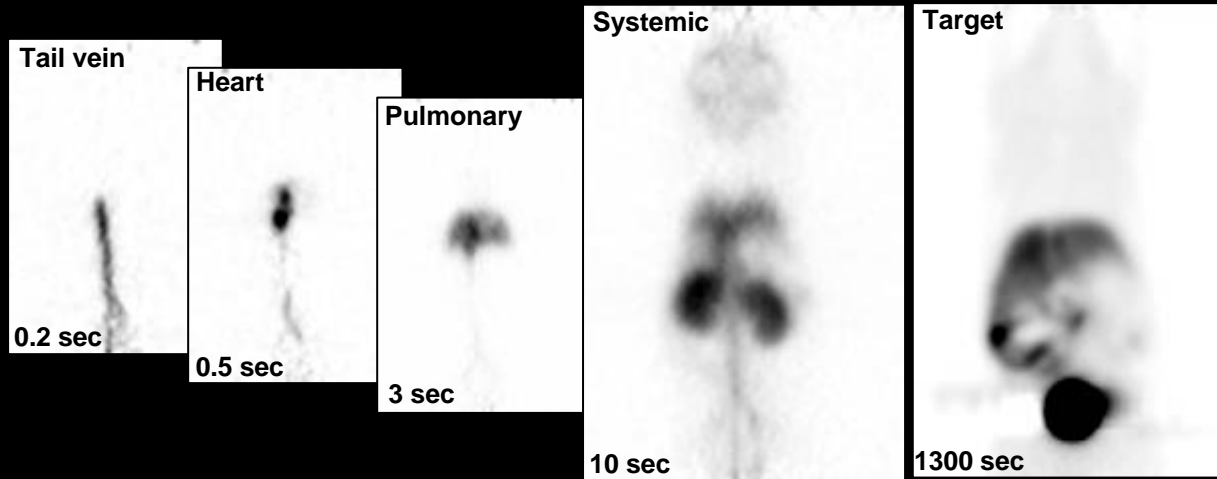
The objective of the study was to evaluate fetal CT scanning as a method of fetal skeletal analysis in reproductive toxicology studies.

### Scan Protocol:

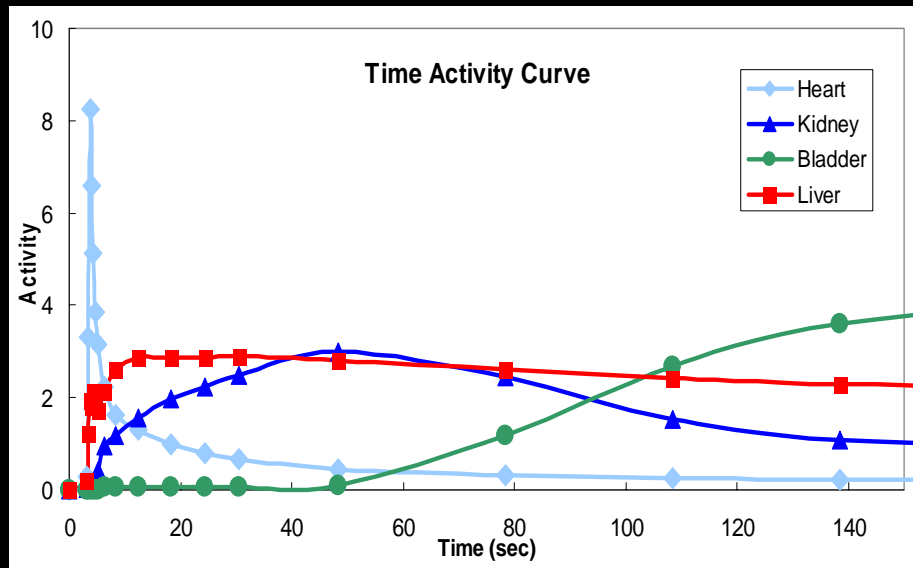
X-ray source @ 500 microAmps and 80 kVp. Pixel size of 34 microns, bin X 2 data collection, for effective pixel size of 68 microns. 360 projections with 500 ms exposure time. Multiple fetal samples were scanned to facilitate sample throughput.

Data courtesy of Luminare Molecular, LLC

# microCAT® & microPET® Fused Images



microCAT® & microPET® Fused Images



## microPET® Fast Dynamic FHBG scan of HSV-tk Transfected Liver

26g mouse (SCID), Tracer:  $^{18}\text{F}$  FHBG, Injected dose: 1.05mCi

Data courtesy of UCLA Crump Institute for Molecular Imaging, Arion Chatziioannou Ph.D., Patrick L. Chow MS, L. Wu