



## Small- animal SPECT (Single Photon Emission Computed Tomography)

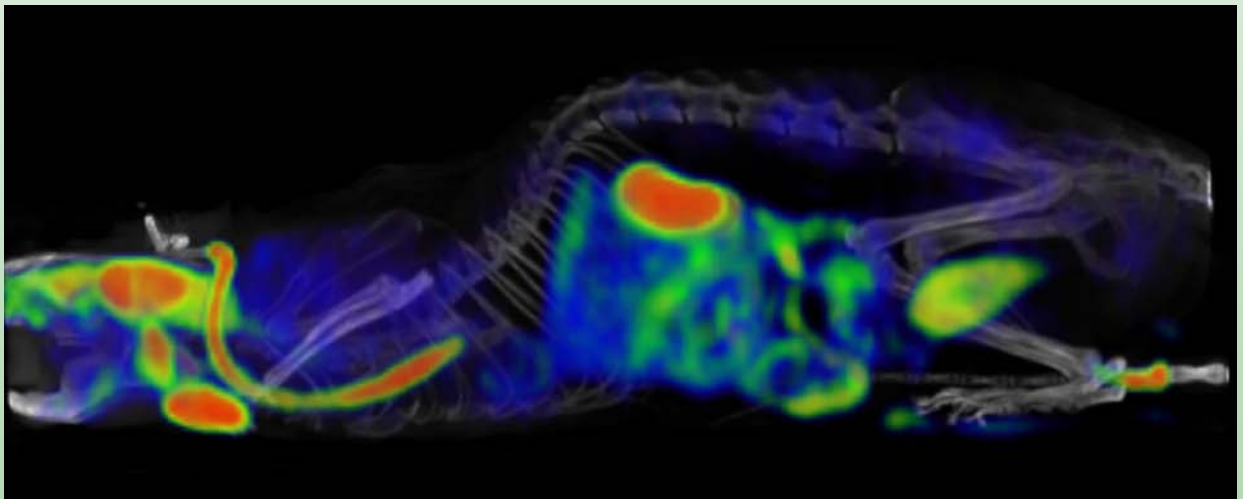
### Scope of application

- Neuroprotective compound actions after cerebral ischemia
- Tissue distribution of labeled compounds
- Preclinical testing of radiopharmaceuticals

### Models

#### *In vivo imaging of radiolabeled compounds*

Biodistribution, uptake- and wash-out-kinetics of radiolabeled compounds can be monitored with high resolution in rodents in vivo using the NanoSPECT/CT imager.



#### *In vivo imaging of brain potassium metabolism in cerebral ischemia*

The lipophilic complex  $^{201}\text{Tl}^+\text{DIDC}$  is used for in vivo imaging of brain potassium metabolism and viability. In infarcted areas the uptake of the  $\text{K}^+$ -analogue  $\text{Tl}^+$  is markedly reduced (arrows)

