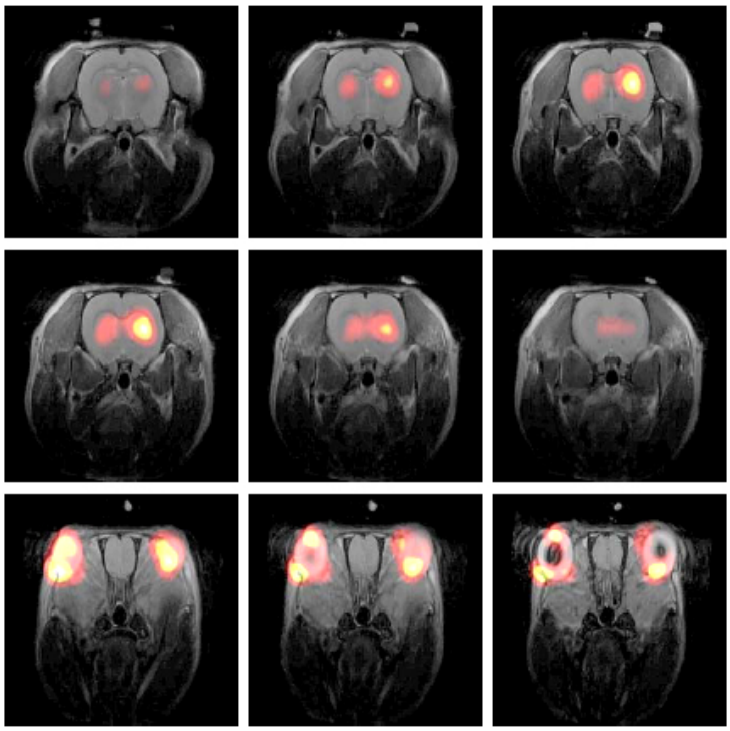
www.insightMRI.com (508) 799-6464 info@insightMRI.com

Co-registered, Fully Conscious, Rat SPECT/MRI Brain Imaging

Insight MRI's patented conscious rodent restraint is used for co-registered MRI/SPECT imaging. The images shown demonstrate dopamine SPECT images, co registered over anatomical MRI images, concurrent with an fMRI study. Insight MRI's innovative holder, and ultra sensitive RF electronics were essential to facilitate this unique study.

The study:

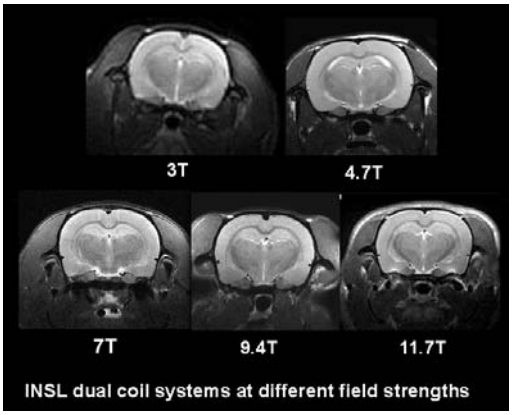


A 300 gram rat was injected with 100 µCi of RTI-55[1] via the tail vein. At 4-5 hours post injection the rat was scanned while fully awake, first with a 4.7T animal MRI scanner, then with a high-resolution desktop SPECT scanner.[2] The upper images show the uptake of RTI-55 in the striata while the lower images show a strong uptake in the retina and perhaps Harderian glands.[3]

[1] I125(ß-CIT) cataloged by Perkin-Elmer, Boston, MA
[2] NeuroPhysics, Shirley, MA
[3] Study performed by Craig F. Ferris, Ph.D. and Praveen Kulkarni, Ph.D., University of Massachusetts Medical School.

System Advantages:

- Innovative animal restraint system
- Dual coil RF electronics increases the signal to noise ratio
- Setup time within minutes
- For MRI machines 3T to 11.7T
- Easy access to animals for stimuli presentation and monitoring
- Readily upgradeable with other systems



INSL dual coil systems at different field strengths

Contact us for more Information:

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