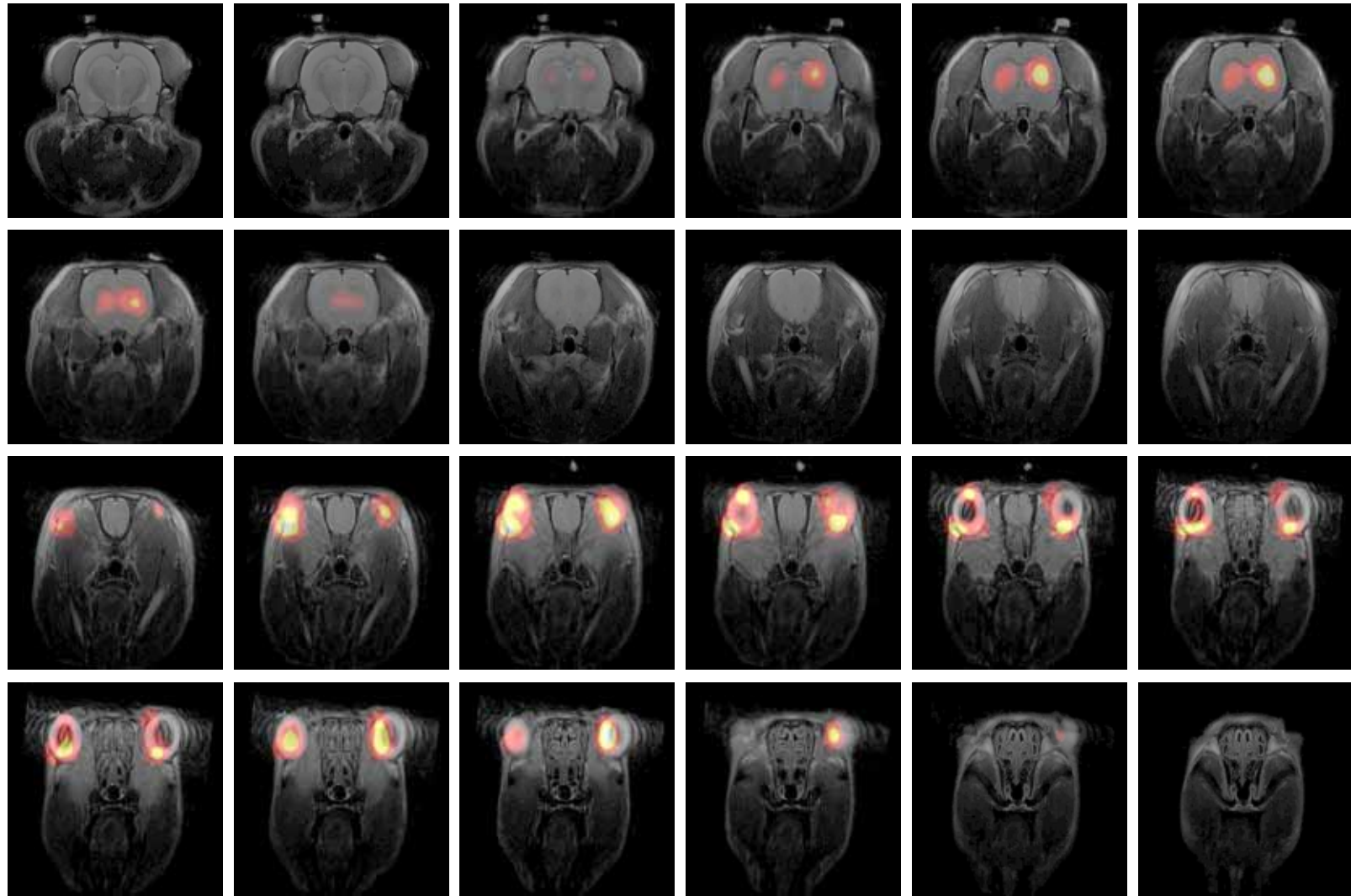


## XET slices from a fully awake rat injected with 100 $\mu\text{Ci}$ of $^{125}\text{I}$ -RTI-55 and coregistered with MRI



A 300 gram rat was injected with 100  $\mu\text{Ci}$  of RTI-55<sup>1</sup> via the tail vein. At 4-5 hours post injection it was imaged while fully awake with NeuroPhysics' MollyQ-50™ desktop scanner using a special animal holder.<sup>2</sup> The upper images show the uptake of RTI-55 in

the striata while the lower images show a strong uptake in the retina. These images are selected from a total of 75 slices acquired in about 45 minutes at 400  $\mu\text{m}$  slice spacing.<sup>3</sup> *The total activity in the striata is only 80 nanoCi!*

<sup>1</sup>  $^{125}\text{I}$ -tagged RTI-55 cataloged by Perkin-Elmer, Boston, MA

<sup>2</sup> Insight Neuroimaging Systems, Worcester, MA

<sup>3</sup> Study performed by Craig F. Ferris, Ph.D. and Praveen Kulkarni, Ph.D., University of Massachusetts Medical School at Worcester.