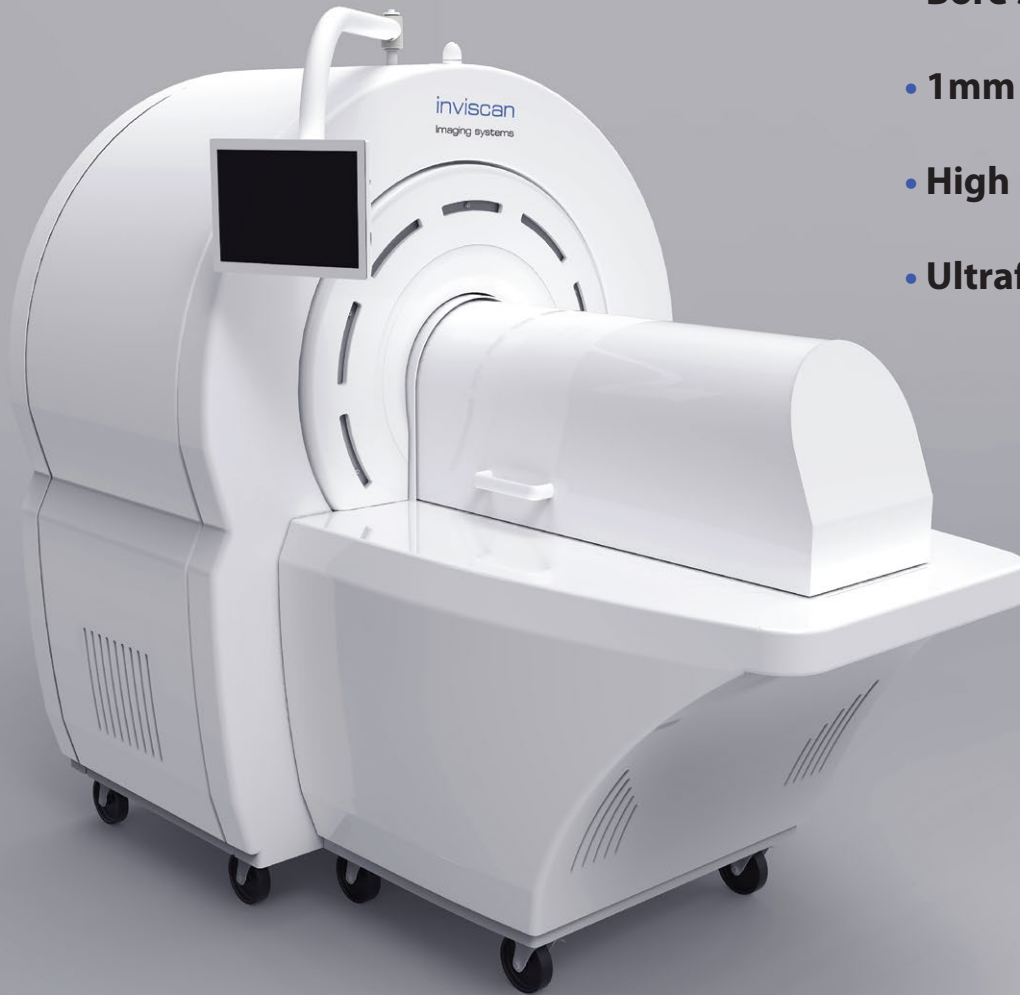


# IRIS XL-260 Primate PET/CT

Fully Shielded Preclinical PET/CT System with Large Bore



- **Bore size: 26 cm**
- **1mm PET resolution**
- **High resolution CT**
- **Ultrafast and low dose CT**

## Specifications PET:

- Spatial resolution: ~ 1 mm (CFOV)
- Sensitivity: ~ 2.8%
- Energy resolution: 14%
- Transaxial FOV: 210 mm
- Axial FOV:  
52 mm (single bed position)  
≥ 400 mm (multiple bed positions)

## Specifications CT:

- Spatial resolution: ~ 70  $\mu\text{m}$  @ 10% MTF
- Scan time:  
2-6 min / 20-60 s / 8 s (HR, Standard, Fast)
- Transaxial FOV: 210 mm
- Axial FOV:  
80 mm (single bed position)  
≥ 400 mm (multiple bed positions)
- Environmental x-ray dose: < 1  $\mu\text{Sv/h}$

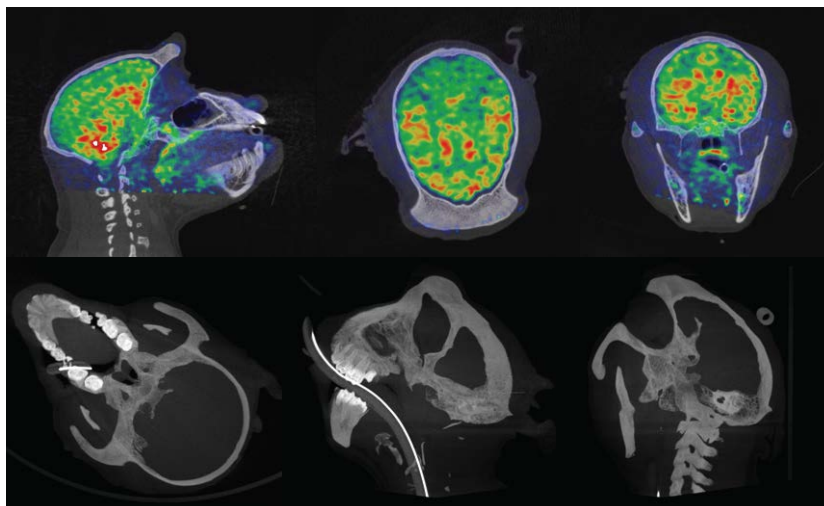
[info@inviscan.fr](mailto:info@inviscan.fr)  
[www.inviscan.fr](http://www.inviscan.fr)

**inviscan**  
imaging systems

## Brain PET/CT imaging



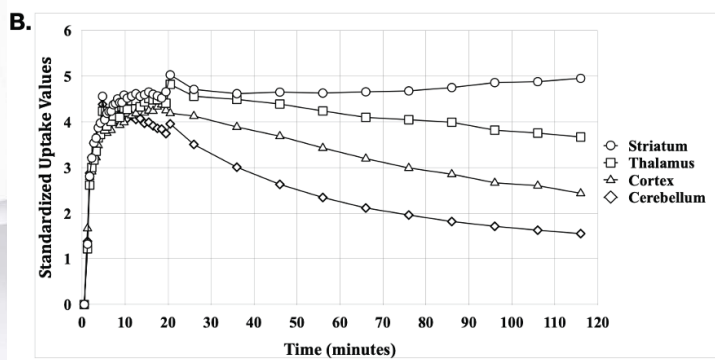
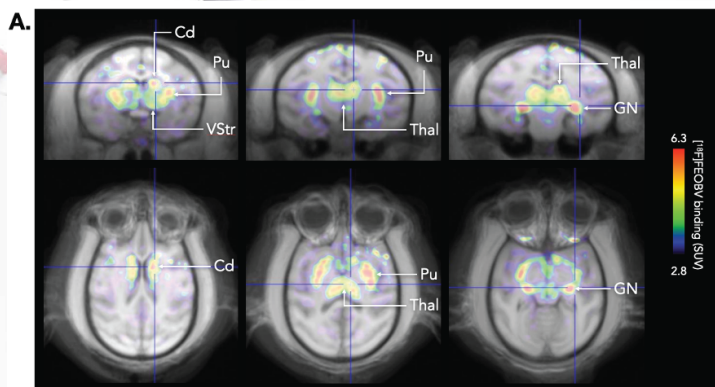
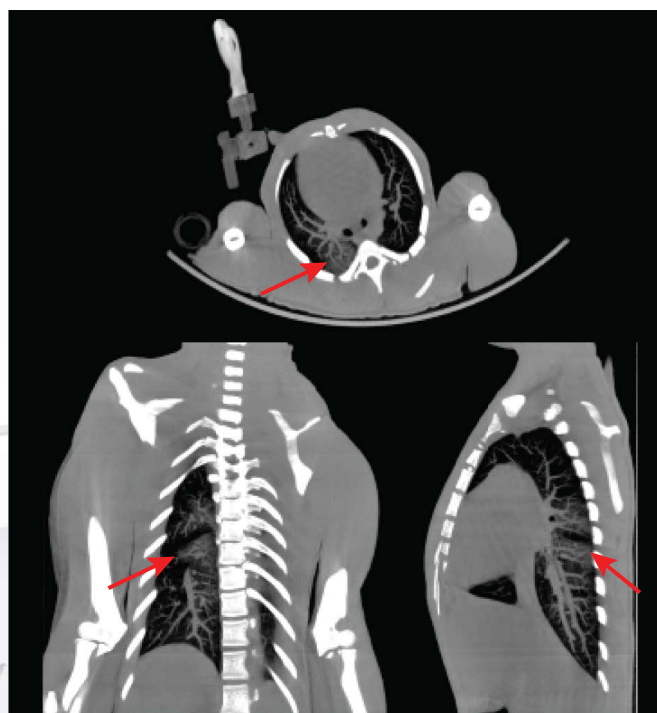
- Female *Macaca fascicularis*, 4.5 kg
- 85 MBq [<sup>18</sup>F]-FDG i.v.
- PET imaging:
  - 15 min per bed, 2 bed positions
  - 40 min after injection
  - 0.84 mm voxel size
- CT imaging:
  - 80 kV, 0.9 mA
  - 52 s per bed, 2 bed positions
  - 0.16 mm voxel size



## Dynamic PET brain imaging



- Female *Macaca fascicularis*, 2.9 kg
- 92 MBq [<sup>18</sup>F]-FEOBV, 121 min
- Scan start 1 min before injection
- Time frames:
  - 1x60" + 18x30" + 11x60" + 10x600"
- Image co-registered on a brain *Macaca fascicularis* MRI template ([www.cermep.fr/download/atlas](http://www.cermep.fr/download/atlas))



## CT lung inflammation imaging



- Female *Macaca fascicularis*, 4.5 kg
- 80 kV, 0.9 mA, 98 s per bed
- 2 bed positions
- 0.12 mm isotropic voxel size
- iterative reconstruction algorithm
- Arrow indicates inflammation area

Courtesy of : University of Tours, Preclinical imaging department - PST ASB

Available as CT only - Upgradable to PET/CT