

Real-time solutions for molecular imaging

β microprobe

local, fast kinetics
with PET tracers



Neurosciences | Molecular Imaging | PET tracers

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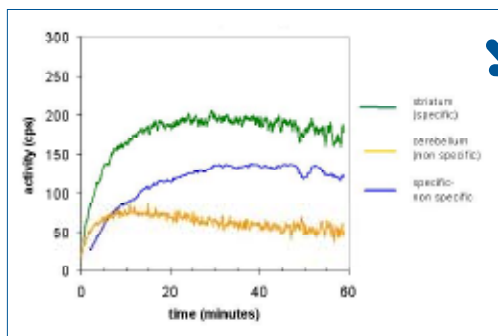
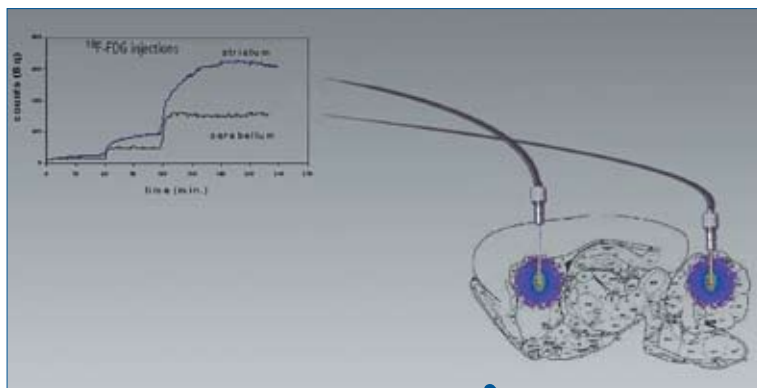
β microprobe



The probe is sensitive to β emitters including ^{11}C , ^{18}F , ^{32}P , ^{131}I and provides a very low cost, simple alternative to μPET for pharmacokinetics, behavior studies, FDG studies, radiotracer development, input function measurements and many more.

Stereotaxically implanted in the animal brain, this unique microprobe allows users to measure kinetics of a β -labeled molecule on anaesthetized or live animals, on short to long timescales, in a well defined brain locus.

The probe can also be positioned in an organ, a tumor, or in a blood vessel to measure the input function in a tracer experiment.



On line kinetics measurement of ^{11}C -Raclopride binding after anaesthesia, stereotaxic implantation of two probes and injection.

Courtesy of V. Leviel and L. Zimmer, CERMEP, Lyon France

Rat brain kinetics after three successive injections of ^{18}F -FDG (0.5, 1 and 2mCi) Kinetics are recorded by two probes implanted in the striatum and cerebellum.

Courtesy of L. Besret and Ph. Hantraye, SHFJ Orsay, France



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