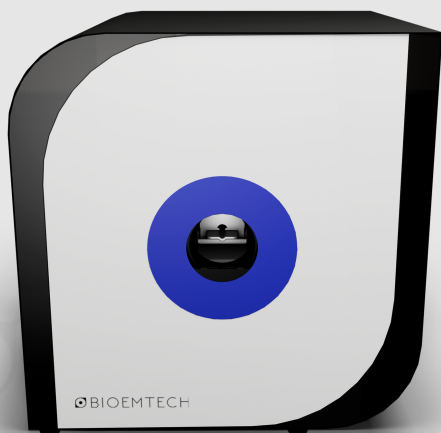




A desktop preclinical **3D PET** platform for fast
in vivo screening and quantitative imaging of
PET radiopharmaceuticals

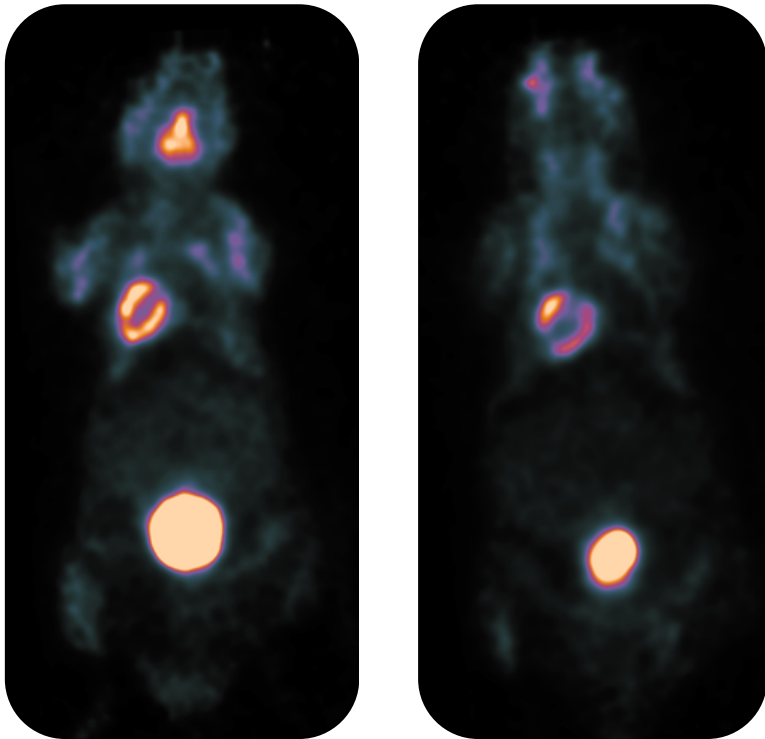
 **eye**TM



Cardiac 3D PET imaging in preclinical models



F-18

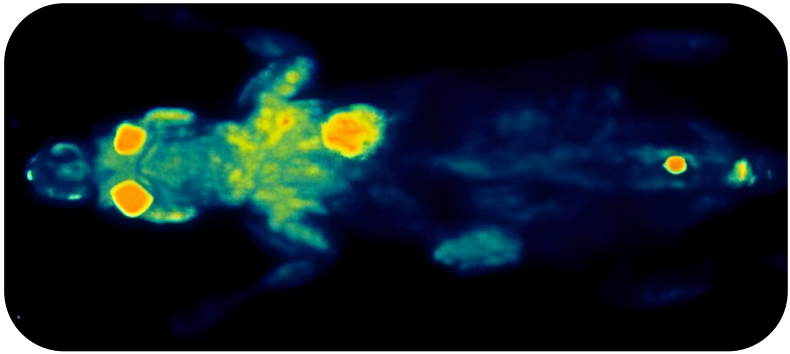


**Cardiac PET imaging using ^{18}F -FDG
in a healthy mouse (left) & in a model of myocardial infarction (right)**
Images info: 80 min post injection – 20 min scan – injected activity 6 MBq

3D PET imaging for **oncology** and **bone** applications



F-18

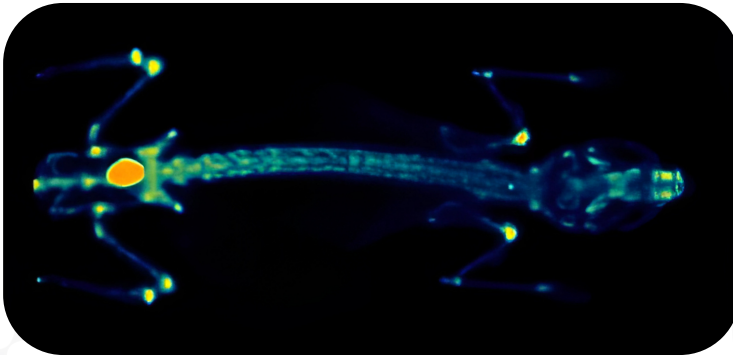


Tumor model imaging using ^{18}F -FDG

Image info: 1 h post injection – injected activity 6 MBq



F-18



Bone imaging using ^{18}F

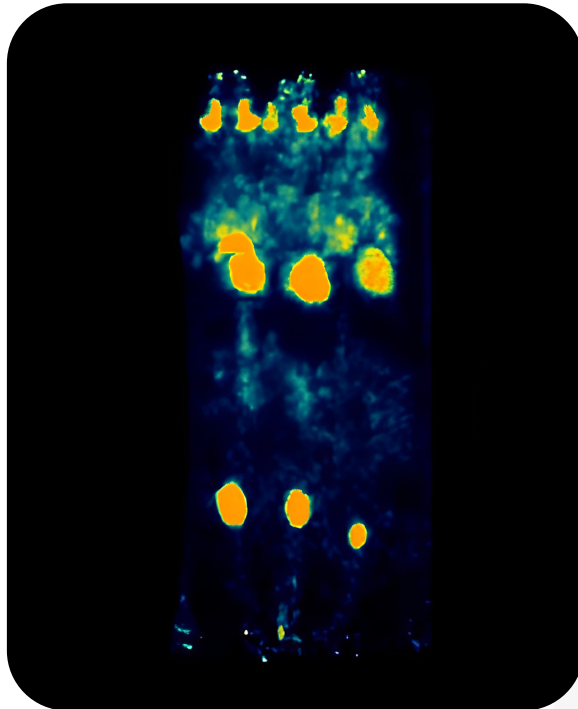
Image info: 1 h post injection – injected activity 4 MBq

High-throughput 3D PET imaging of up to three mice

The β -eye™ enables simultaneous 3D PET imaging of **up to three mice** in a single acquisition, increasing experimental throughput.



F-18



Simultaneous ^{18}F -FDG PET imaging of three mice

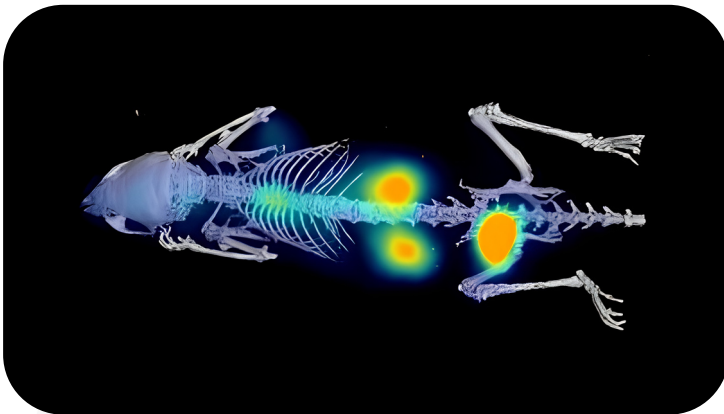
Image info: 60 min post injection - 6 min scan
total activity 2.5 MBq per mouse

Dynamic 4D PET for time-resolved imaging

The β -eye™ enables **dynamic 4D PET** imaging to track radiotracer distribution over time, providing early insight into uptake and clearance kinetics.



Ga-68



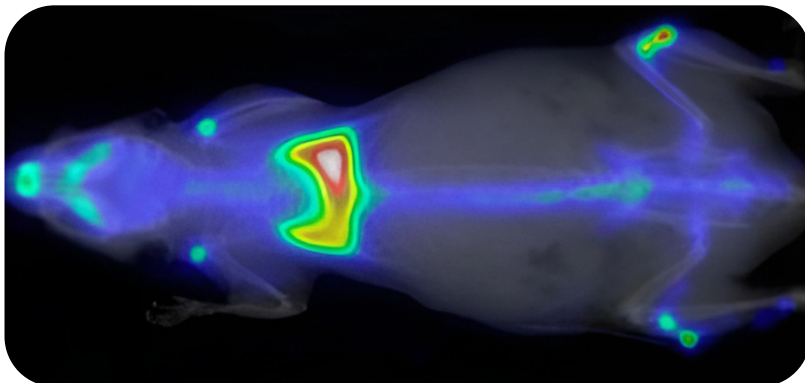
Representative ^{68}Ga PET image from a dynamic 4D PET acquisition

Image info: 0 to 60 min post injection - down to 2 min frames
injected activity 9 MBq

Fast **planar** imaging for whole-body screening



Zr-89

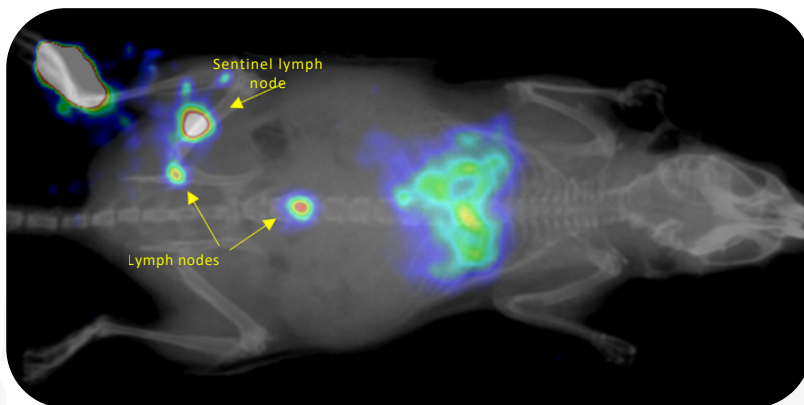


Contamination model with ^{89}Zr to mimic real-world radiological exposure

Image info: 24 h post administration – 5 min scan – injected activity 3.7 MBq



Ga-68



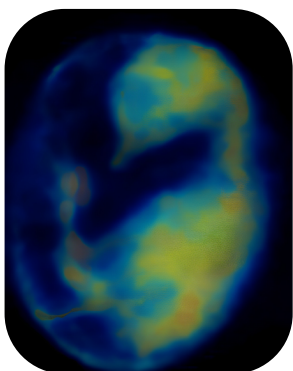
Sentinel lymph node imaging using ^{68}Ga -FAPI radiotracer

Image info: 1 h post injection – 10 min acquisition time - injected activity 3 MBq

Versatile 3D PET imaging across **special applications**



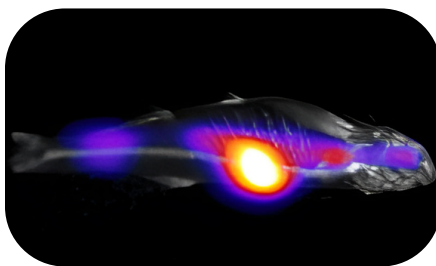
F-18



***In ovo* imaging using
 ^{18}F -based tracer
Image info: 2h p.i.
10 min scan**



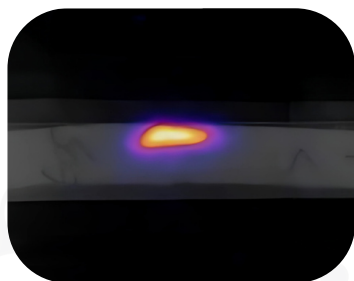
F-18



**PET imaging using ^{18}F -FDG on a
healthy zebra fish
Image info: 5 min p.i. - 6 min scan
injected activity 0.2 MBq**



Cu-64

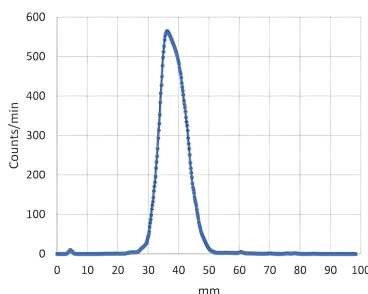


**TLC - Image info: 3 min scan
injected activity 0.26 MBq**



Cu-64

TLC scan β -eye





BIOEMTECH's eyes™ systems are designed to make molecular imaging more accessible, practical and efficient

SCAN ME

