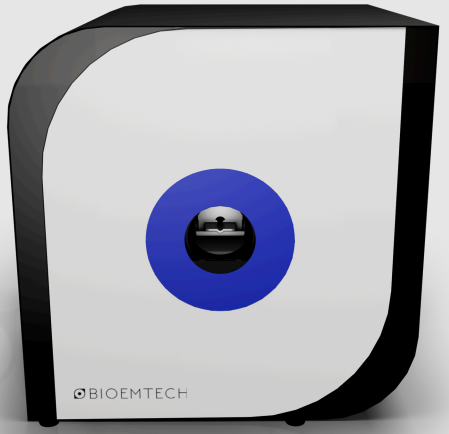
BIOEMTECH

A preclinical imaging platform for fast *in vivo* screening of PET radiopharmaceuticals

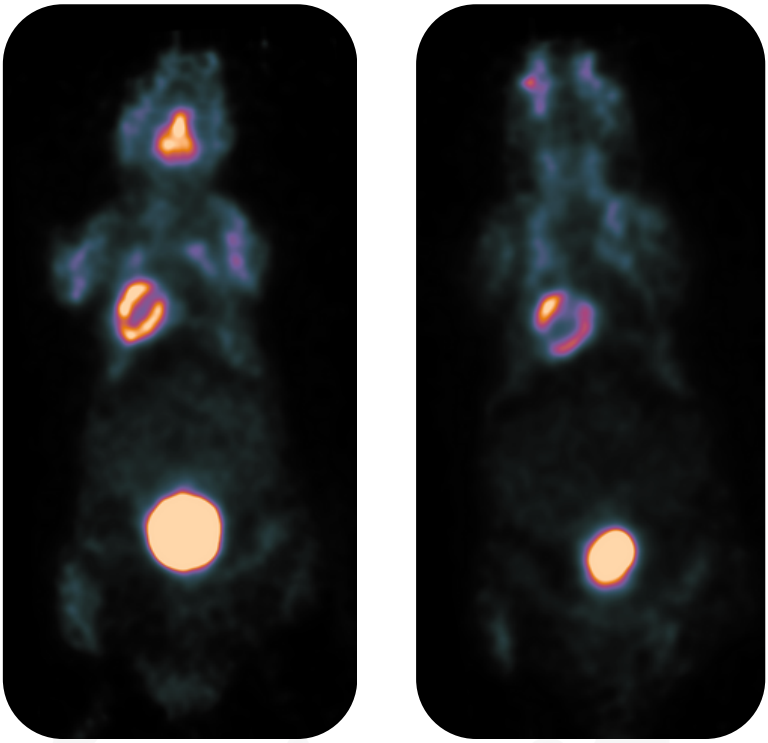
β eye™



Applications

β-eye^{3D+} | Cardiology

F-18

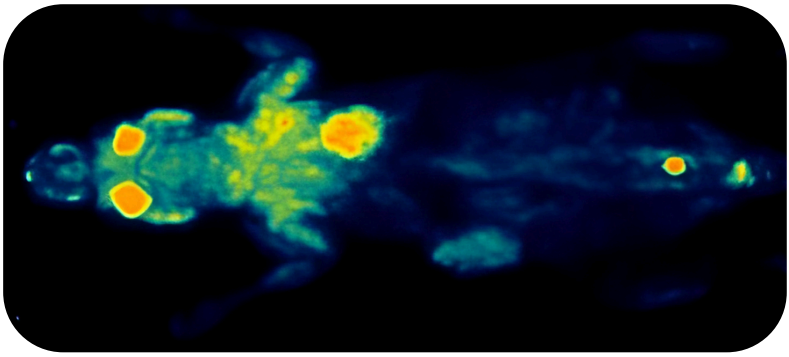


Cardiac PET imaging using ^{18}F-FDG
in a healthy mouse (left) & in a model of myocardial infarction (right)
Images info: 80 min post injection – 20 min scan – injected activity 6 MBq

β-eye^{3D+} | Oncology & Bone Imaging

Applications

F-18



Tumor model imaging using ^{18}F-FDG
Image info: 1h post injection – injected activity 6 MBq

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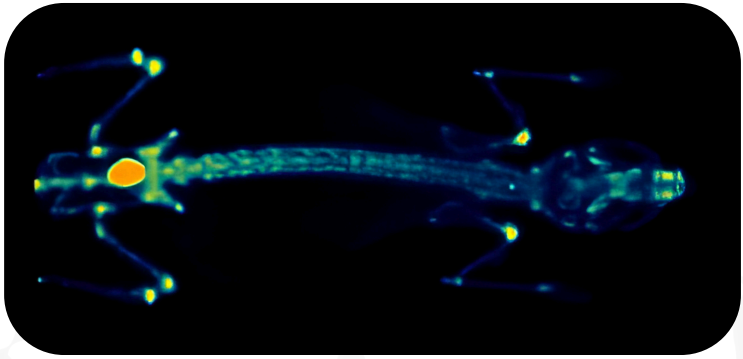
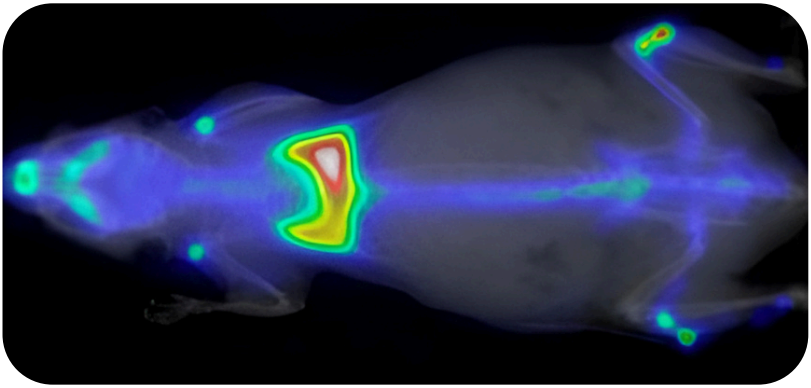


Bone imaging using ^{18}F
Image info: 1h post injection – injected activity 4 MBq

Applications

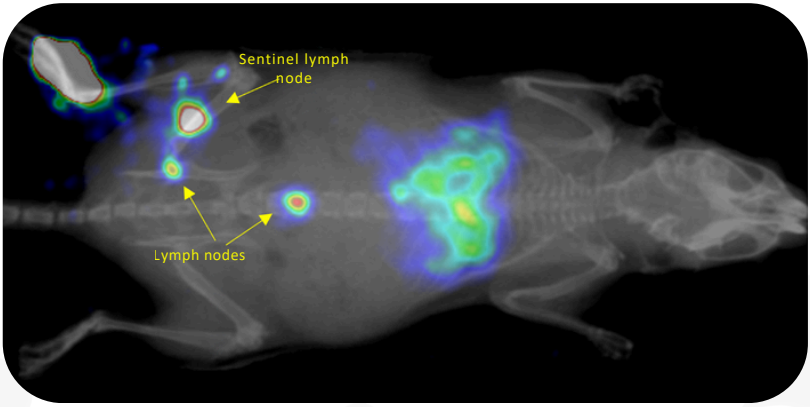
β-eye^{2D+} | Real time - Whole body imaging

Zr-89



Contamination model with ^{89}Zr to mimic real-world radiological exposure
Image info: 24h post administration – 5min scan – injected activity 3.7MBq

Ga-68

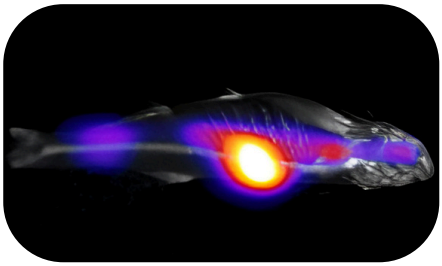


Sentinel lymph node imaging using ^{68}Ga-FAPI radiotracer
Image info: 1h post injection–10min acquisition time-injected dose 3MBq

Special Applications

β-eye^{3D+} | Zebra *fish*, *TLC* & *In ovo* Imaging

F-18



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

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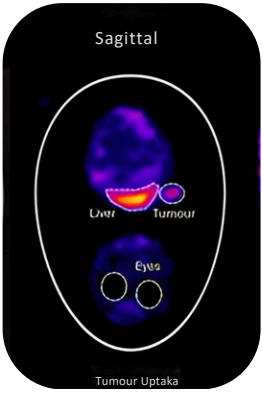

***In ovo* imaging using ^{18}F-based tracer**
Image info: 2h p.i.
10 min scan

Cu-64

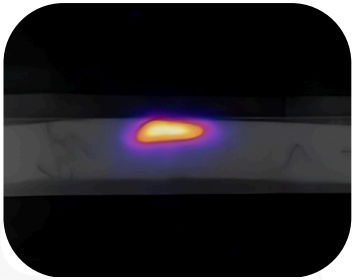

Image info: 3 min scan
injected activity 0.26 MBq

Cu-64

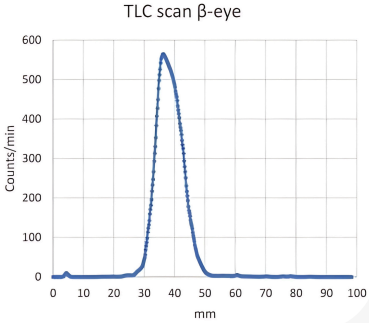

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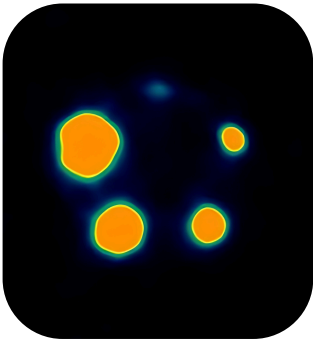
Image Quality Phantoms

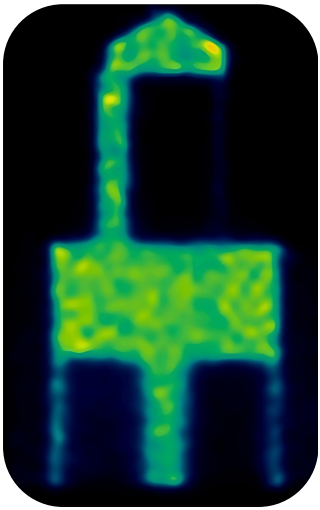
β-eye^{3D+} | NEMA Performance Evaluation

F-18



Evaluation results demonstrate CRC higher than 90% for rods up to 3 mm
Image info: 20 min scan total activity 3 MBq

F-18



Evaluation confirmed a Spill over Ratio (SOR) of 11.5%
Image info: 20 min scan total activity 3 MBq

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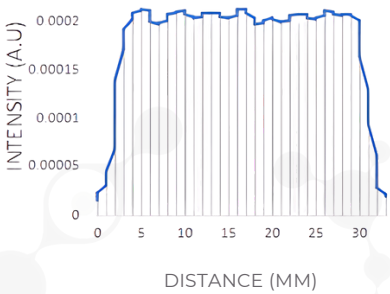

Evaluation results demonstrate Uniformity of 6.7%

β-eye^{3D+} | Micro-Derenzo Study

Image Quality Phantoms

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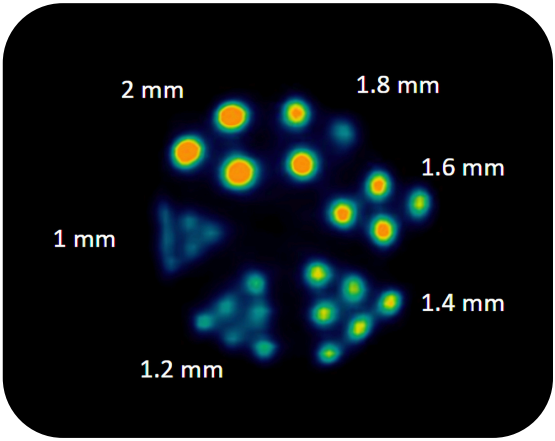

Evaluation results demonstrate resolution down to 1mm rods | Image info: 30 min scan time

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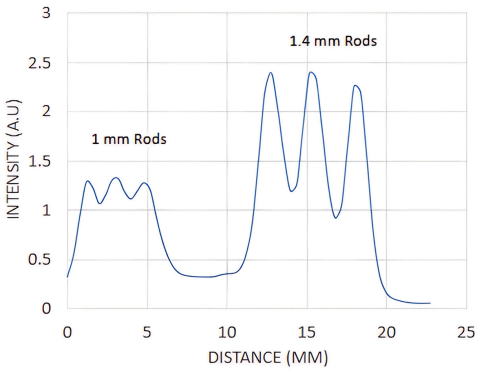

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BIOEMTECH's eyes™ systems are designed to make molecular imaging more accessible, practical and efficient

SCAN ME

βeye™