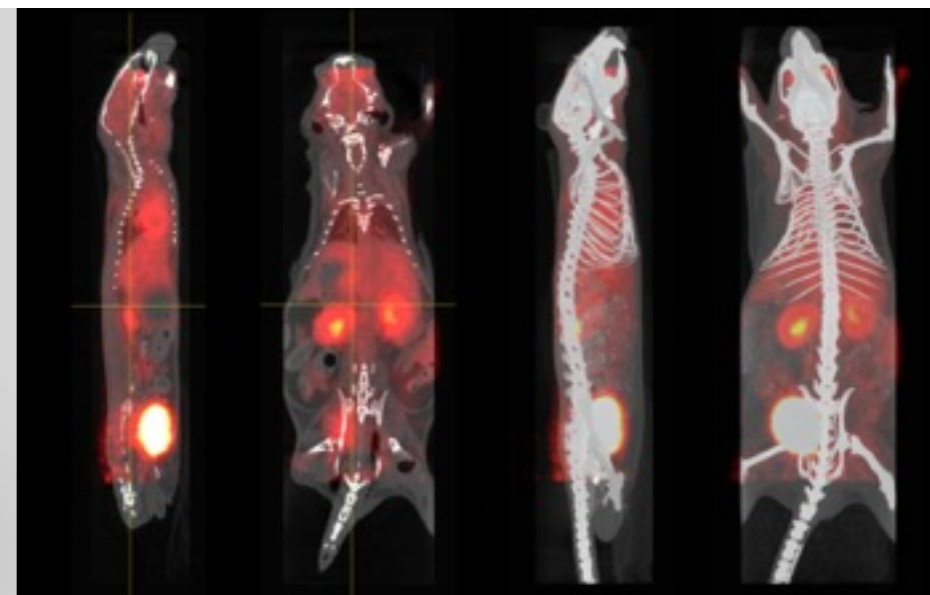
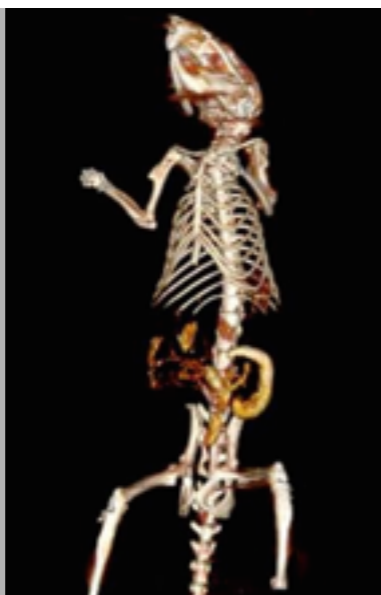
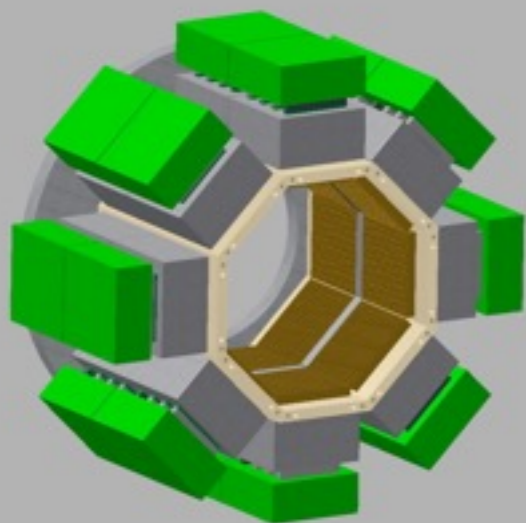


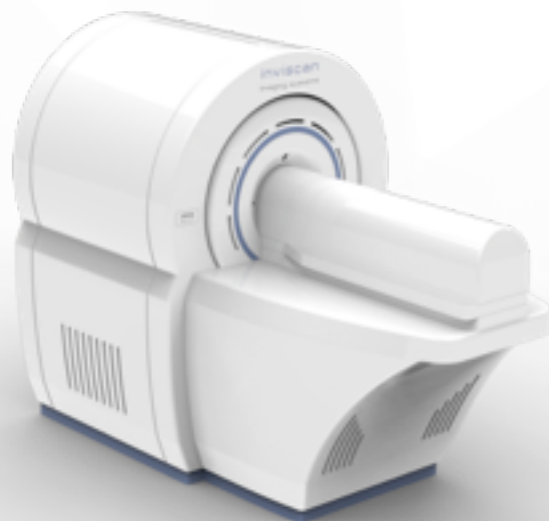
SEMINAIRE NATIONAL IMAGERIE OPTIQUE IN-VIVO

17 - 18 Septembre 2015

Jean-Luc Lefaucheur
President



inviscan développe des systèmes d'imagerie pour la recherche



Key specifications:

- Sensitivity = 9 %
- Resolution = 1 mm
- Full mouse FOV
- ER = 14%
- Best quality / Price ratio

PET/CT

**PET/MR
Insert**



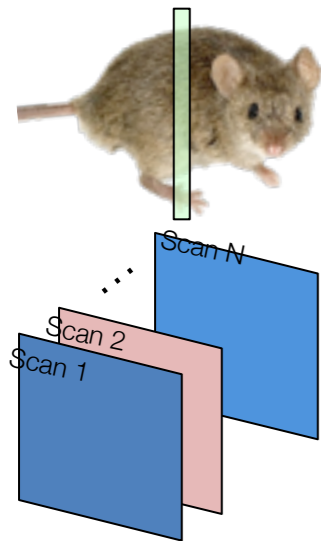
NEXUS 128



**Photo-acoustique
3D**

NEXUS 128: 3D Photo-acoustic Imaging

Sliced Based Imaging



1. Position probe or animal in 2D FOV
2. Acquire scan (single slice)
3. Translate probe or animal to next slice position
4. Acquire scan (single slice)

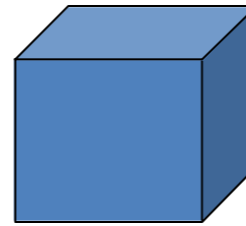
Repeat N times

Only a single slice is imaged at a time

NEXUS-128 Only Fully 3D imaging



1. Position probe or animal in FOV
2. Acquire scan (3D volume)



Every voxel in the volume is imaged simultaneously

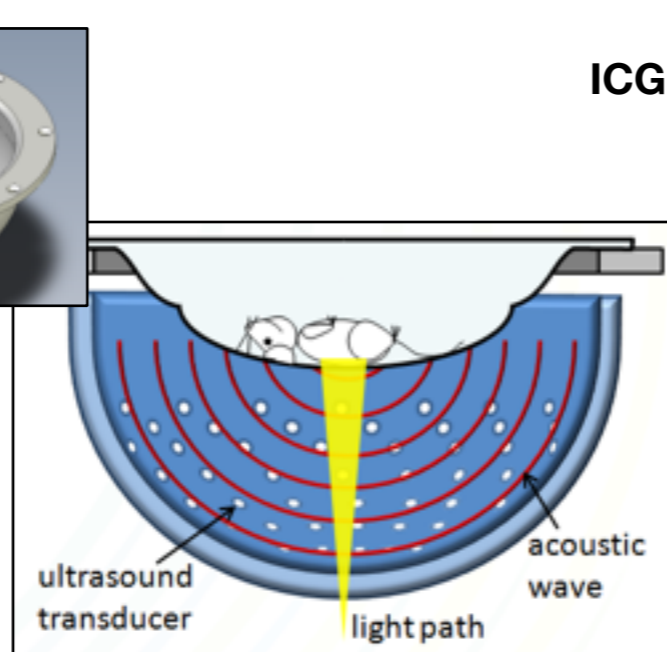
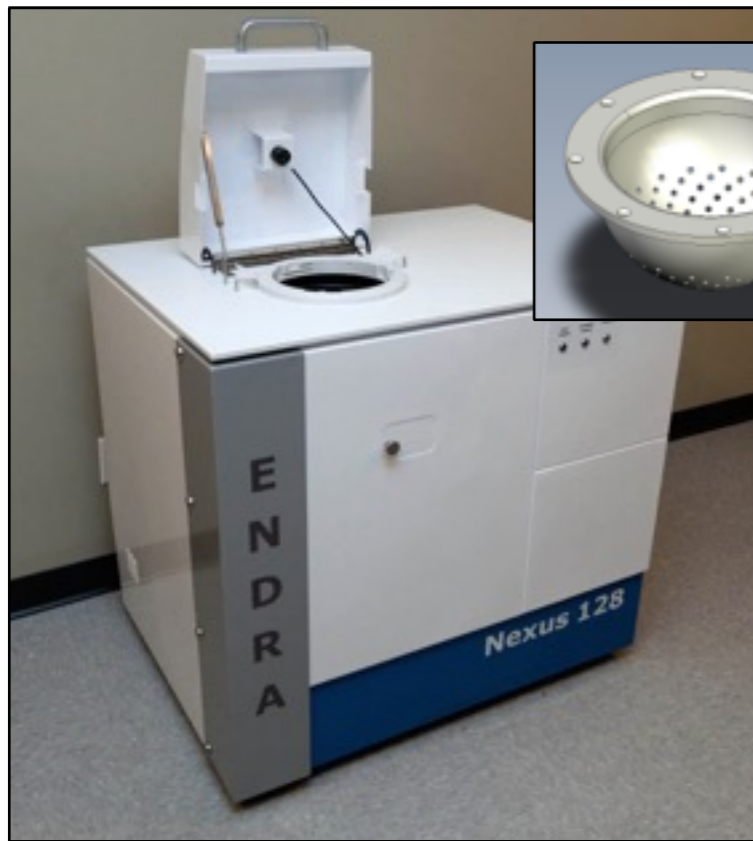
KEY ADVANTAGES

- **Increased sensitivity**
- **Improved image quality**
- **Faster scan times**
- **Higher throughput**
- **Isotropic resolution**

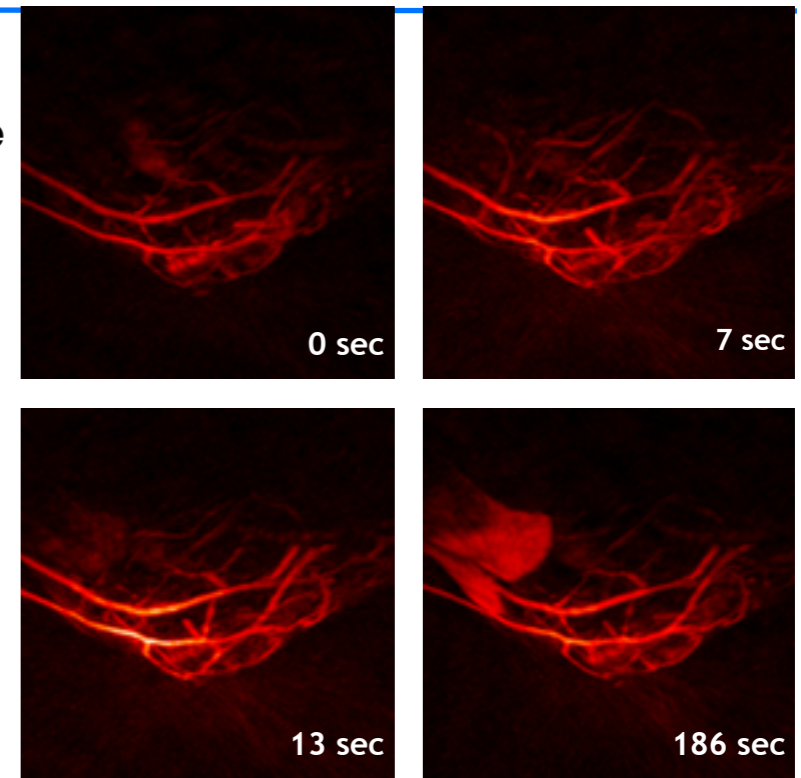


fully 3-D photoacoustic
imaging technology

Applications of Nexus 128

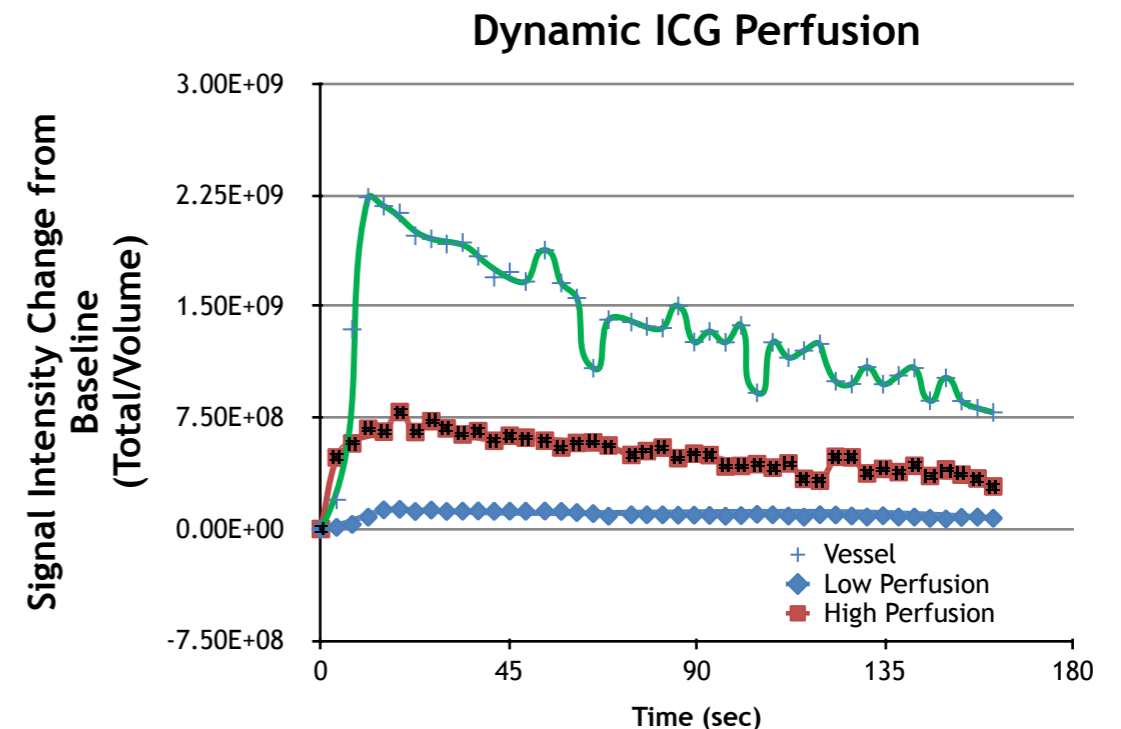


3D MIP
ICG / vasculature



Applications

- 3D molecular probe uptake and distribution
- 4D, dynamic imaging
- Multispectral imaging (680 – 950 nm)
- Quantitative tumor vasculature – Hemoglobin
- Quantitative tumor hypoxia – SO₂



inviscan
Imaging systems

Thank you for your attention!

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www.inviscan.fr