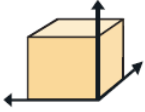
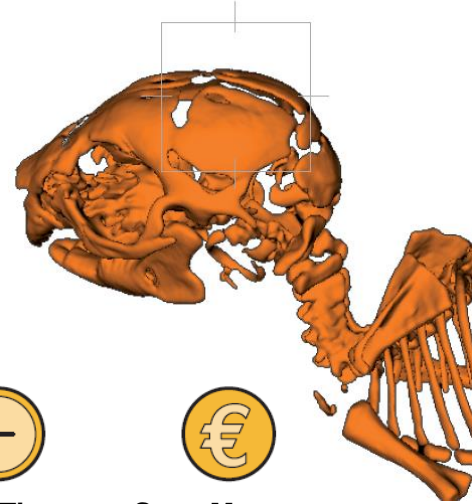


BIOPOLYMER IMPLANTS

The relevancy of
**3D Medical Imaging
Services**
for your *In-Vivo* research
and **preclinical studies.**



Increase Measurement
Accuracy



Save Animals



Translational
Research



Save Time



Save Money

Our Aims

- **Reducing Time to Market for your new Medical Devices (in orthopaedics, rachis, dental and tissue domains)**
 - **Enhancing your reglementary reports**

By providing you with new exploratory opportunities through imaging follow-up of your animal model

Give your Preclinical Studies access to:

- A high technological platform
- A pluridisciplinary expertise to quantify and analyse your data

2 ways to tackle your efficiency issue

- **3D X-ray COMPUTED TOMOGRAPHY** (ANATOMICAL way)
- **OPTICAL MOLECULAR IMAGING** (FUNCTIONAL way)



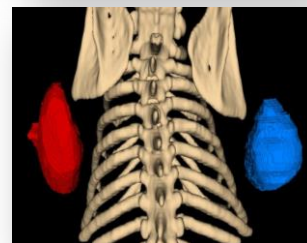
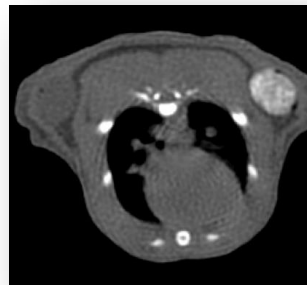
V O X C A N

→ Animal Medical Imaging Services

3D X-ray COMPUTED TOMOGRAPHY Services

Anatomical Imaging for Performance Studies

- In-vivo follow-up and measurement of biopolymer implant shape, volume and density.
- In-vivo follow-up and measurement of biopolymer hydration.
- In-vivo measurement of kinetics biopolymer degradation.
- « Combo product » : Efficacy study of a relevant compound linked to a biopolymer implant (specific animal model).



OPTICAL MOLECULAR IMAGING Services

Functional characterization for Efficacy Studies

- Host response quantification by detection and measurement of inflammatory processes:
 - Cathepsins , Metalloproteases and Reactive Oxygen Species (ROS) expression.
- Apoptosis detection and measurement.
- Hypoxia detection and measurement.
- Neoangiogenesis evaluation.
- « Combo product » : Study of the release and biodistribution of a compound linked to the biopolymer implant.
- Anti-infectious efficacy for functionalized MDs using bioluminescent bacteria (Luciferase +).

