



## **OUR VALUES** *RESEARCH & SECURITY*



### **QUALITY**

Through the commitment of all its staff, BIOBank undertakes to offer products and services of irreproachable quality.



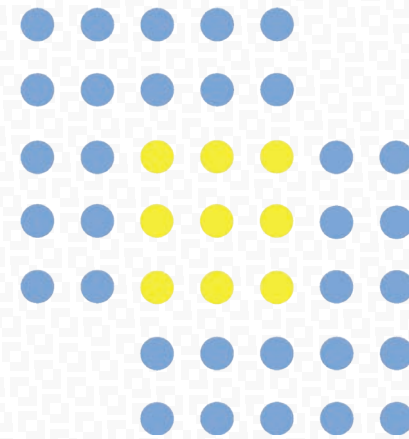
### **RIGOUR**

By applying the strictest standards and regulations, BIOBank guarantees the safety of its products in compliance to laws and ethics.



### **INNOVATION**

To meet the current and future needs of surgeons and patients, BIOBank increasingly invests in research and development.



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**THE FRENCH LEADING COMPANY IN BONE ALLOGRAFT**  
*EXPERTISE - INNOVATION*





## 1<sup>ST</sup> FRENCH BANK OF HUMAN BONE TISSUE

BIOBank ensures all tissue bank activities listed in the French public health code: from tissue collection to issuance of safe grafts. These steps include, inter alia, the biological selection of donors and the proper transformation of the femoral heads by using the Supercrit® process.

All these operations are done in accordance with the Good Practice rules of Tissue Banks set by the ANSM (French National Safety Agency for Health Products), transposing the European Directives into French regulations.

BIOBank grafts come from femoral heads harvested exclusively from living donors during hip arthroplasties. As such, the tissue is removed during a surgery in the operating room, guaranteeing optimal quality and asepsis. All samples are obtained in France only by orthopaedic surgeons within approved health care establishments.

The network of partners developed since 2003 has enabled BIOBank to become the French leading bone bank in term of harvested femoral heads and implanted grafts.

## OUR SUPERCIT® PROCESS

Our Supercrit® process is based on delipidation of bone tissue using CO2 in supercritical state, combined with a chemical viro-inactivation. The extraction technology using supercritical fluids has been applied for the first time by BIOBank to the human bone tissue.

Due to its low viscosity and its high solvency properties, supercritical CO2 has an incomparable delipidating efficacy, without aggressive action on the bone matrix.

The purpose of this procedure is to ensure maximum viral safety, in-depth cleaning of the trabecular structure and preservation of the natural biomechanical properties of the collagen and mineral structure of the bone tissue.

## OUR PRODUCTS

BIOBank bone grafts are available in different forms: anatomic, geometric, granules and powders. The bone tissue quality and the variety of forms allow to cover all indications of reconstruction and bone filling whatever the surgical specialty.



Whole femoral head



Cancellous bone powder in vial



Cancellous bone granules



Cancellous bone powder in syringe

**MORE THAN  
50 PRODUCT  
REFERENCES**

## INNOVATION IN BIOBANK'S DNA

### Supercrit® Technology

Innovation is a main purpose of the BIOBank's corporate project. First tissue bank in the world using the patented supercritical fluids technology to delipidate and viro-inactivate bone allografts, BIOBank has been innovative from the outset.

### Innovative packaging

Bone powder is provided in a syringe with a specifically developed design. This innovation enables the surgeon to rehydrate bone tissue in optimal asepsis conditions and to dispense it directly in the grafting site. This packaging is suitable for all bone fillings from oral surgery to neurosurgery.

### Customized Bone Graft

By using advanced technologies (CT-scan image analysis, 3D modelling and printing, CNC milling center), BIOBank is the only tissue bank to provide customized bone grafts, perfectly adapted to the patient's bone structure. This approach is a real revolution, for the quality of bone reconstruction and increases patient comfort by minimizing surgery time and follow-up.

### Future developments

In scientific partnership with several academic laboratories, BIOBank invests in new graft forms and formulations with increased bioactivity. BIOBank determined to always remain at the forefront of innovation in order to provide surgeons with high added scientific value products, for performance and clinical efficacy.