

YOUR EXPERT PARTNER FOR RESEARCH PROGRAMS

Skin, Bone & Joint
indications



Atlantic
Bone
Screen

OUR SERVICES

IN VITRO CELL BIOLOGY



- From *human or animal origin*
- **Primary cell** and **cell lines** (tumoral or not)
- Cell differentiation, cytotoxicity, cell activity, mechanism of action ...

IN VIVO ANIMAL MODELS



- **Rodent to goat** models
 - Immunodeficient & Immunocompetent strains
 - PK/PD study and pathological models
- Accredited animal facilities and 3 R's rules

HISTOLOGY & HISTOPATHOLOGY



- Any kind of tissue & organ
- Paraffin, **resin embedding** or **frozen samples**
- Standard and special staining, IHC & IF
- Histopathology and scoring based on international guidelines (RITA, OARSI ...)

PRECLINICAL IMAGING



- **2D images** (RX and scanned slides)
- **3D images** (MicroCT for bone sample analysis)
- Analyses with ImageJ, QuPath, BioQuant ... and **AI-assisted image analyses**

BIOMARKERS & BIOANALYSES



- **Human or animal samples** (blood, urine, synovial fluid, grinded tissues ...)
- Biomolecular and biochemical analyses (ELISA, RTqPCR, Flow cytometry ...)

A WIDE RANGE OF THERAPEUTIC AREAS

OSTEOARTICULAR DISEASES

- Bone and joint cell assays (osteoclasts, osteoblasts, chondrocytes)
- In vivo models mimicking bone diseases (osteoporosis, osteogenesis imperfecta, osteoarthritis ...)
- Bone and joint samples analyses by microCT, histopathology and histomorphometry

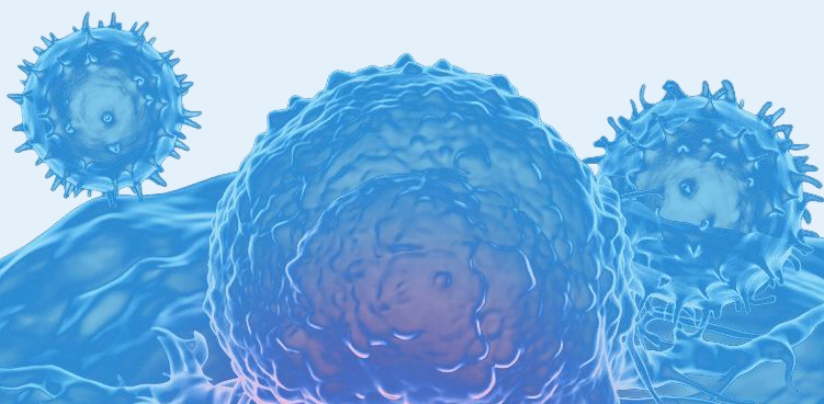


INFLAMMATION

- Primary macrophages tests (M0 & M1) for pro-/anti-inflammatory effect evaluation
- Expert in histology and histopathology to evaluate inflammation on tissues

ONCOLOGY & BONE CANCER

- Test of compound efficacy against tumoral cells (IC50, EC50 measurement ...)
- In vivo models of primary cancer and bone metastases (tumor burden growth evaluation)
- Expert in histology on tumoral biopsies



A WIDE RANGE OF THERAPEUTIC AREAS

BIOMATERIALS

- ISO 10993 standards (part 5 & 6) for orthopaedic, dental and wound healing applications
- In vitro direct and indirect cytotoxicity
- Biocompatibility and efficacy evaluation by implantation (subcutaneous, intermuscular, orthotopic)
- Expert in histology on skin, bone and joint samples for wound healing evaluation and bone regeneration



DERMO-COSMETICS

- Skin cell assays (keratinocytes, fibroblasts ...)
- Human skin explant test
- Expert in skin histology (+150 IHC/IF validated for dermis, epidermis and hair follicle markers)



WHY CHOOSE US ?



EXPERTISE IN PRECLINICAL TESTS

Expert team managing both the preclinical process and the specific pathologies we support our Sponsors on.



ANIMAL HEALTH AND ETHICS

Each of our employee is regularly trained to ethics, 3R's rules and animal welfare. Each of our protocol is validated by internal/external ethical commitee.



SCIENTIFIC ADVICE

Each protocol is cutomized depending on available scientific data, on historical data we have generated and on budget and timelines of our Sponsors.



DATA ANALYSES

Beyond results and statistics in a table, we provide complete reports, conclusions, data interpretation in order to go further on the validation of the tested compound.



EURO-QUALITY SYSTEM





As ever, ABS have proven to be a reliable and responsive partner for our pre-clinical studies.

Charles, Medtech company, UK



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