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CARTIGEN

Projet cofinancé par le Fonds Européen de Développement Régional

https://www.chu-montpellier.fr/fr/cartigen

Location:
CHU Montpellier, Campus Hôpital St Éloi

CARTIGEN

To Restore Mobility

" CARTIGEN is a high-level research and innovation platform. Unique site, dedicated to the analysis and modeling of movement to better understand osteoarticular and muscular diseases and to study innovative therapies targeting these diseases "

Pr Christian Jorgensen

CARTIGEN initiator and supervisor

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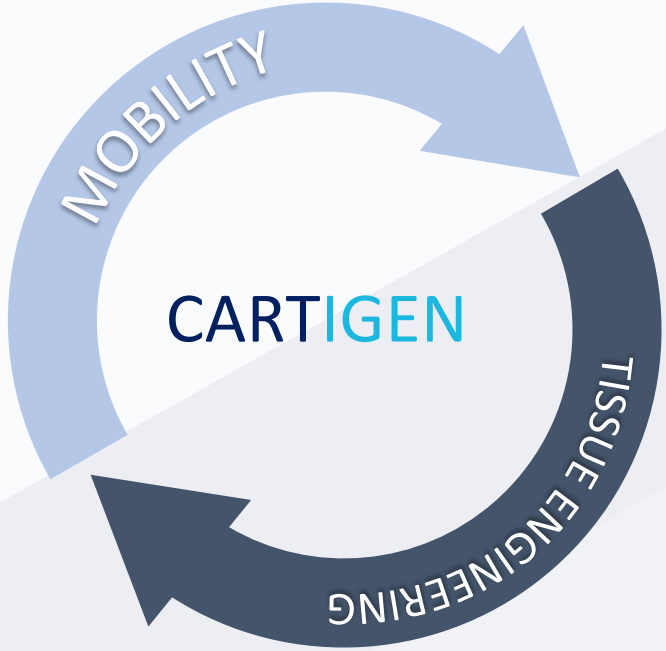
Two interconnected research and innovation platforms

" Analysis and Modelling of movement for better diagnostic "

Pr I. Lafont



" Development of new therapies based on Tissular Engineering and 3D bioprinting "

Pr D. Noël

Dr E. Perrier-Groult

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Development of novel biomaterials

TISSUE ENGINEERING

Chemistry

Biology

3D printing

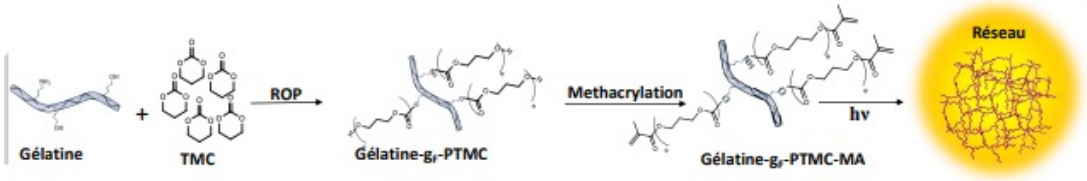
Analysis

Robotics

Project 1 3D BIODIV

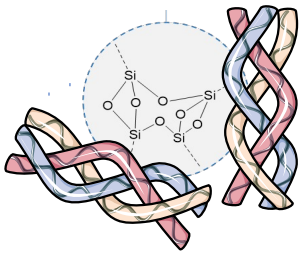
ICGM Institut Charles Gerhardt Montpellier

3D MEDLAB



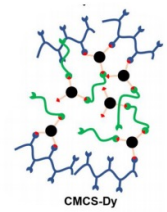
Project 2 LEGOGEL

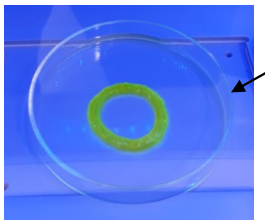
IBMM

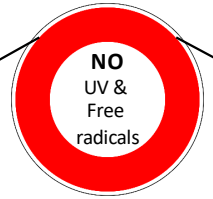


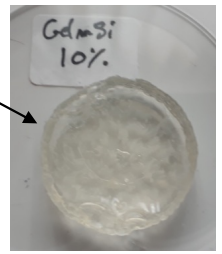
Project 3 Self-healing hydrogels

iem









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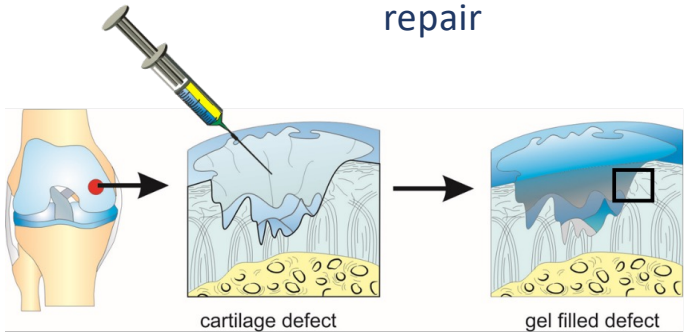
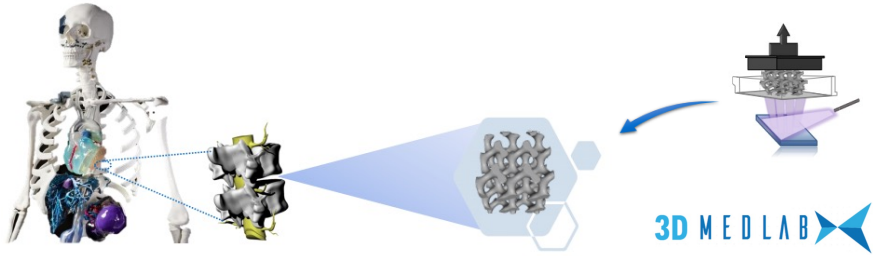
Long-Term Goals

Articular cartilage repair

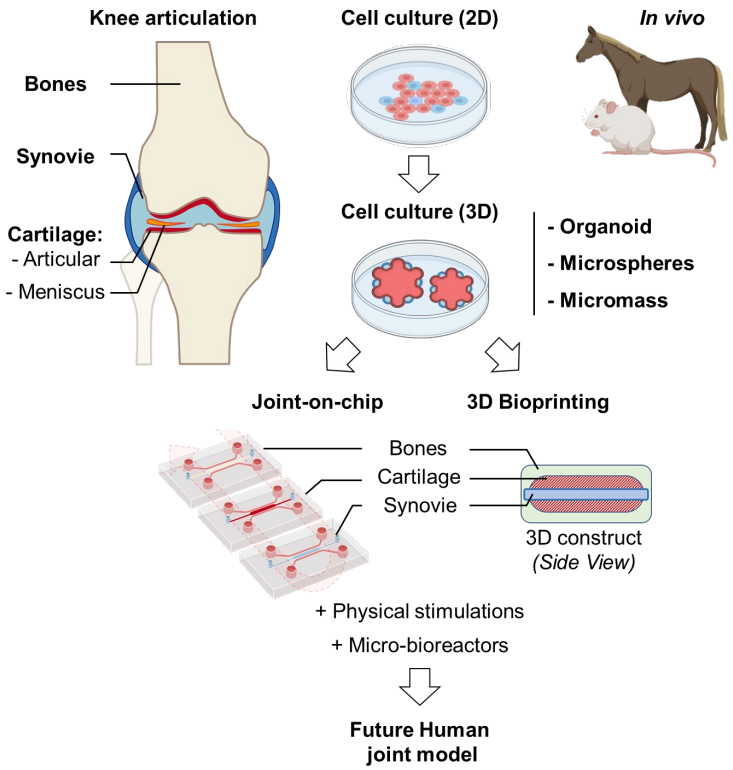


Intervertebral disk replacement



- Bio-prosthesis (meniscus and disk)
- Bone or cartilage defect healing

In vitro 3D joint-on-chip models



- Drug screening / personalized therapy
- Advanced tools for research purpose

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Equipment

Cell culture laboratory

Bioreactors & microfluidics

PSM

Incubators

Rheological analysis

Elastosens2
Rheolution

Cytometry

BD FACSymphony
A3 Cell Analyzer

Cell imaging

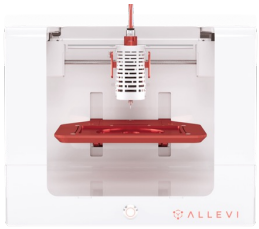
Stereomicroscope Leica

Confocal microscope Leica SP8

MEB PHENOM ProX

3D Printers and Bioprinters

BIO X CELLINK



Allevi 1

Bioplotter
EnvisionTEC

3D Asiga
Max

µFAB-3D
2 photons
Microlight 3D

Interface for Academic / Industrial Collaborations

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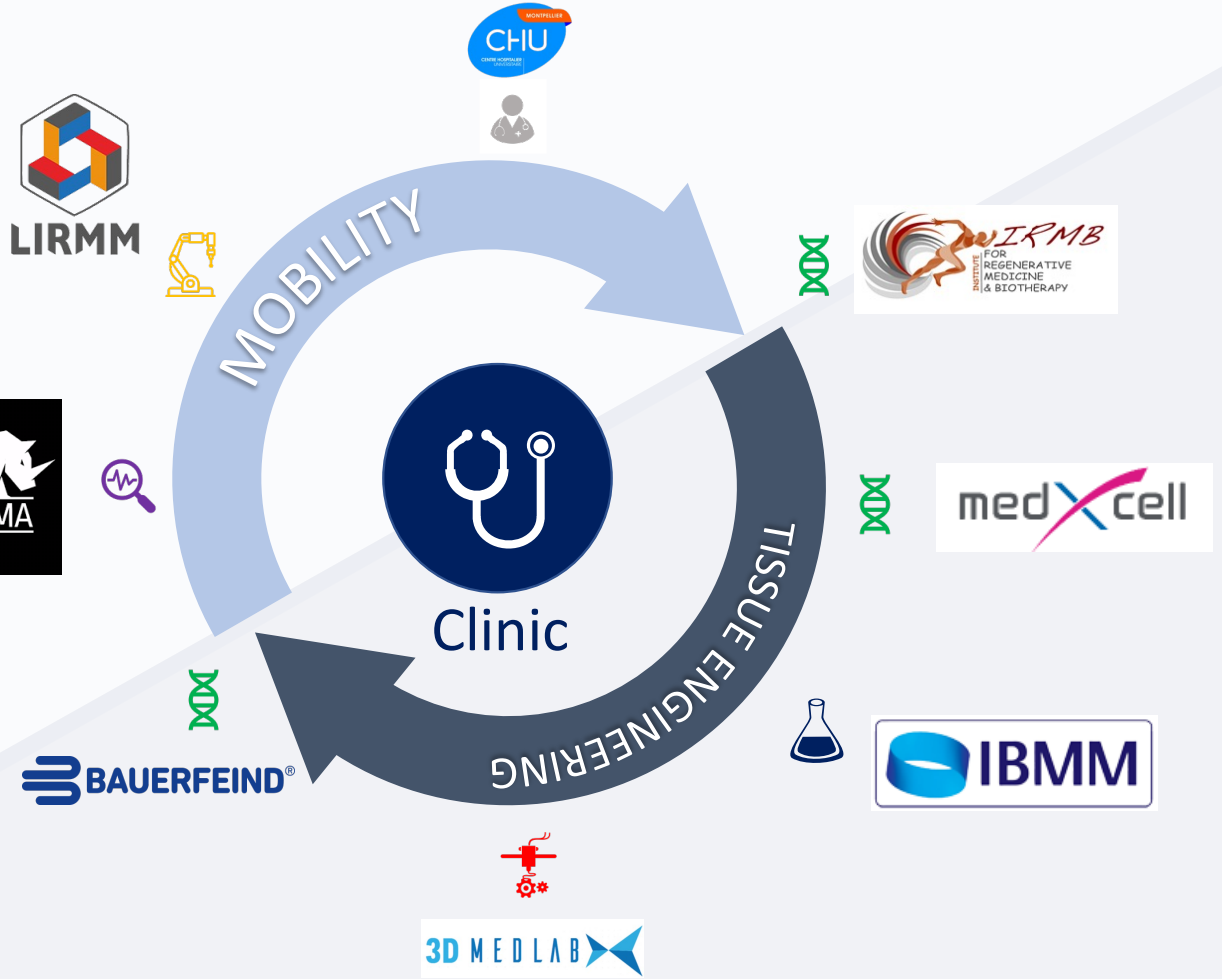
- Physicians
- Researchers
- Engineers



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Thank you for your attention !

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