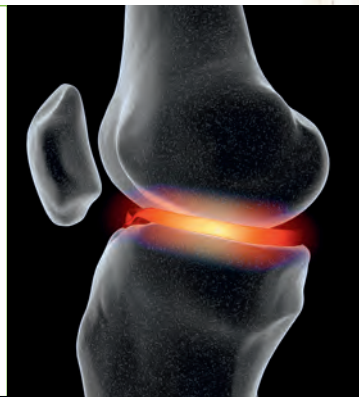


# MANITOABA

Motion Analysis, Multi-Omics, Novel Biosensors for  
**Osteoarthritis** Diagnosis and New Therapeutics

## MAI Technology:

Can we quantify motion in OA patients using AI through the natural course of the disease and treatments? AI driven motion analysis (MAI) technology, which is protected by a pending patent (#12089755).



## Biosensors:

Can we develop and validate biosensors for the early diagnosis and response to OA treatment from the serum and synovial joint fluid? Part of the biosensor platforms are protected by the pending patents(#TR2014\_14481B).



## Multi-Omics:

Can we use multi-omics technologies to evaluate the serum and synovial joint fluid of OA patients and identify changes in metabolite profiles?



## New Therapeutics:

Are we able to treat OA using new therapeutics such as nucleic acids? We have the technology created on cmRNA delivery for bone regeneration (EU H2020 grant 874790)

**We are looking for industrial partners, patient societies and SMEs to join our consortium!**

From Bench to Bedside: Multidisciplinary Project Consortium

