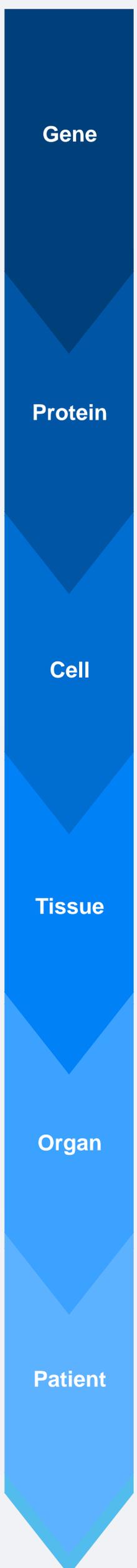
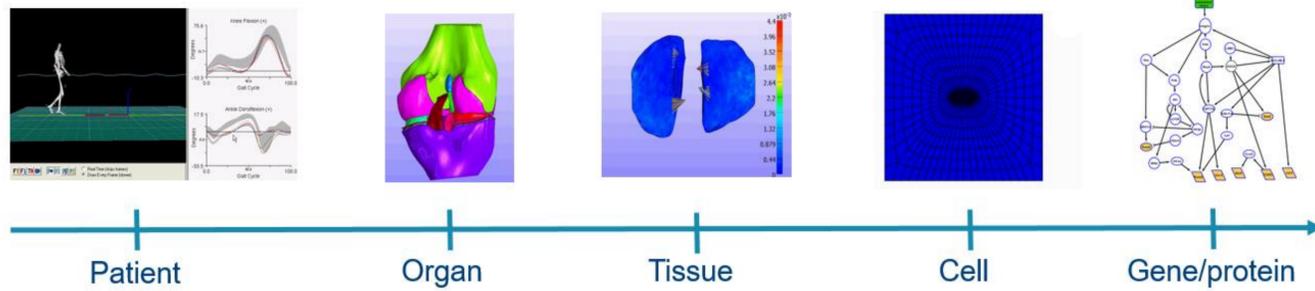


# COMPUTATIONAL BONE & JOINT TISSUE ENGINEERING

Investigating defects, diseases & treatments using *in silico* models

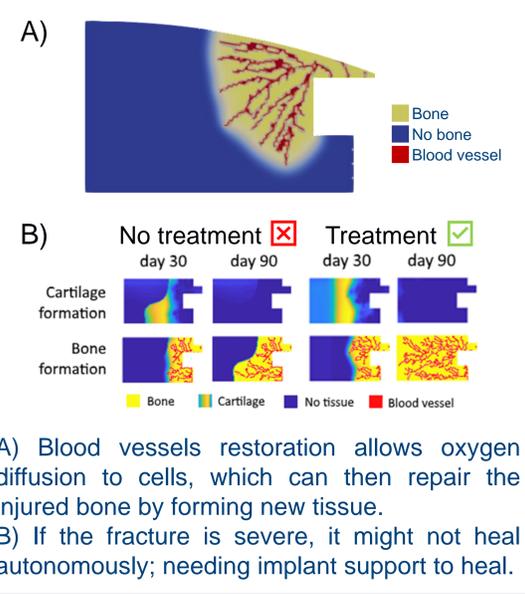
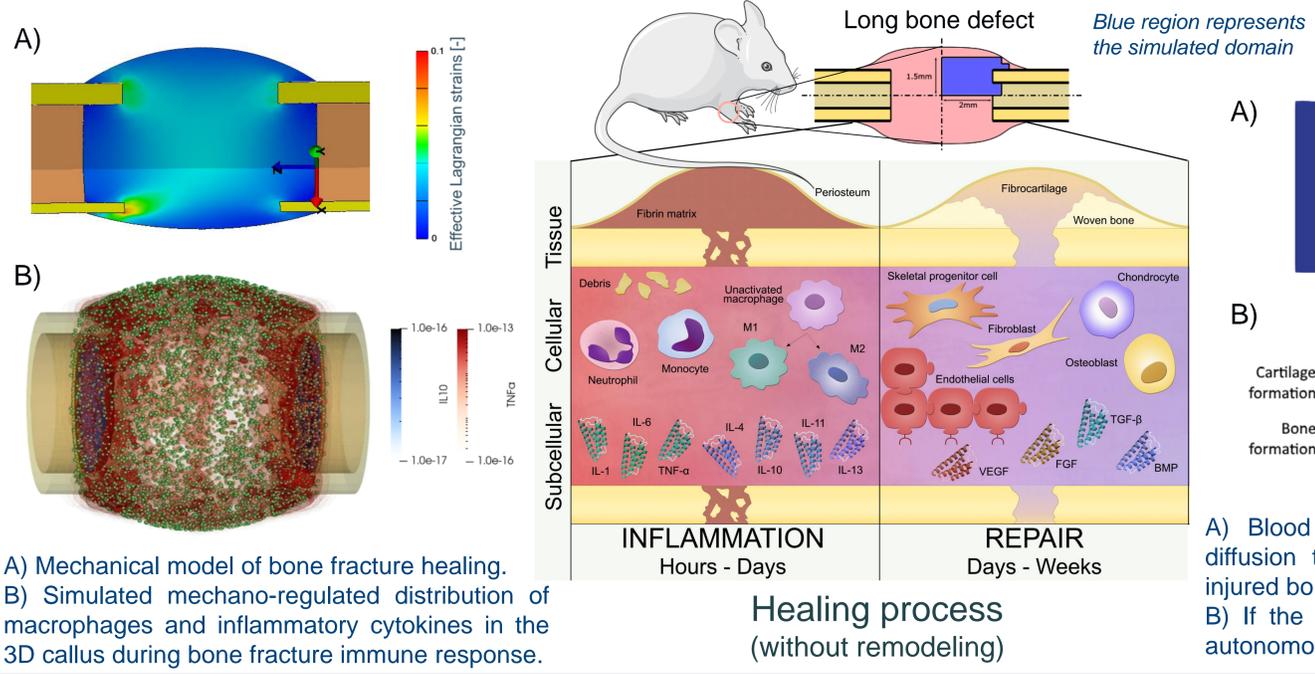


## KNEE OSTEOARTHRITIS: from the knee to the cell & back again

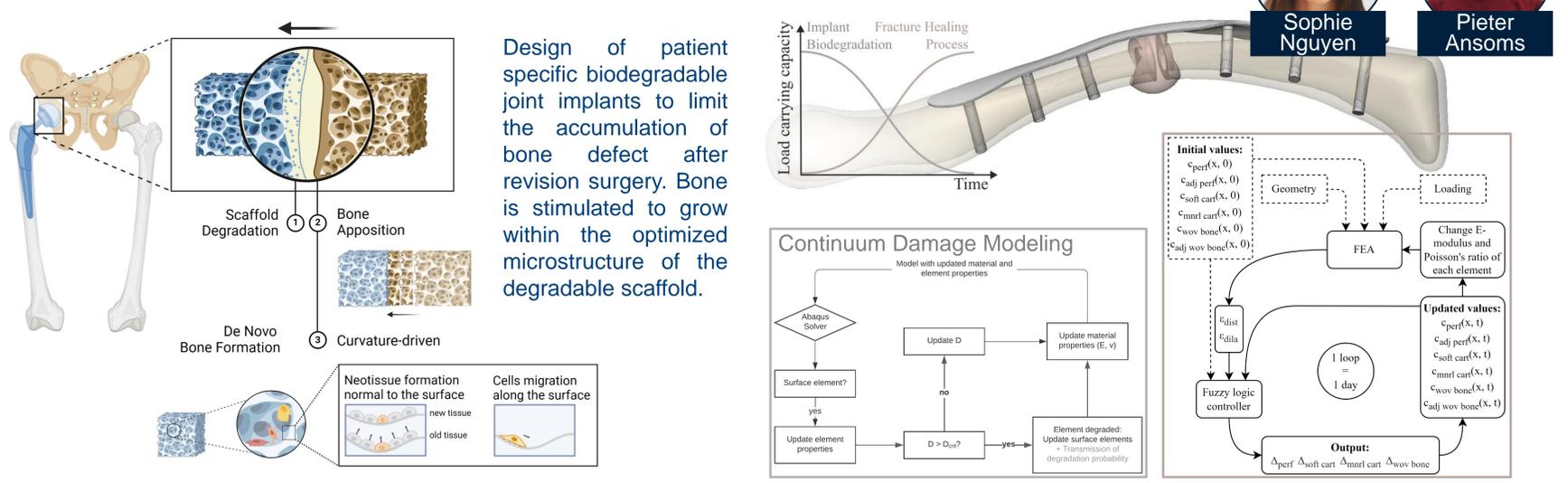


Multiscale model to study the interplay of mechanical and biochemical factors at different length scales that contribute to initiation and progression of osteoarthritis in human knee joint.

## BONE FRACTURE HEALING: from blood clot to bone



## BONE-IMPLANT: simultaneous regeneration and degradation



## IMPLANTS: multiscale optimization & biodegradation simulation

