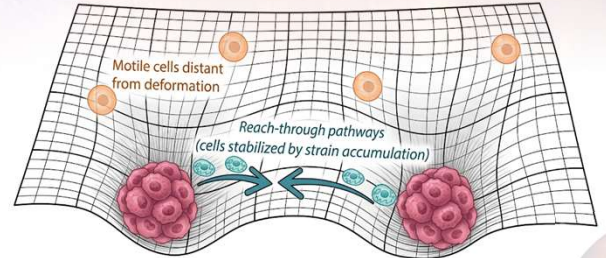
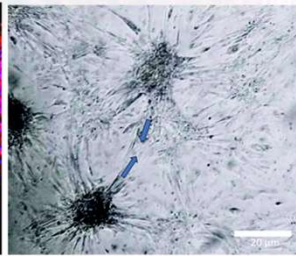
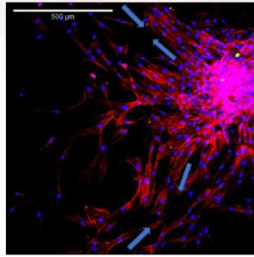


Investigating the Principles behind Cell Coordinated Migration as a function of Microenvironment Space-time Warping

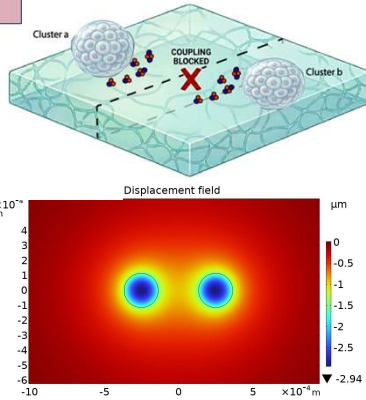
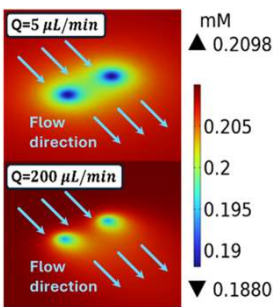
Francesco Fontana, Paolo Signorello, Wendy Balestri, Adele Magi, Alessia Acchiappati, Gabriele Di Palma, Ludovica Cacopardo

Department of Information Engineering and Research Center 'E. Piaggio' - University of Pisa, Centro 3R - Pisa

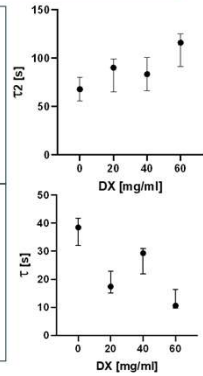
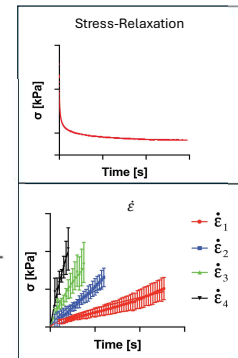
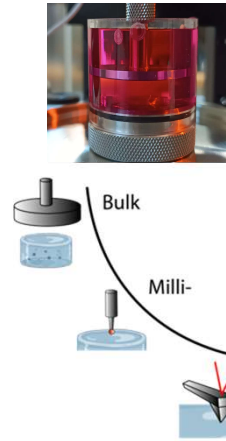


That **cell-generated warping** can be used by cells as a **long-distance contactless communication and navigation tool** is an unprecedented concept. INTERCELLAR aims to fill this knowledge gap, elucidating **cell coordinated migration in the presence of cell clusters** which, inducing significant deformations, emphasises **micro-relativity effects**.

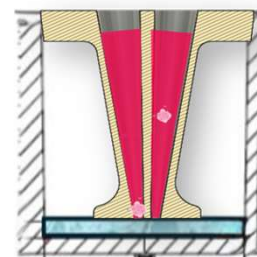
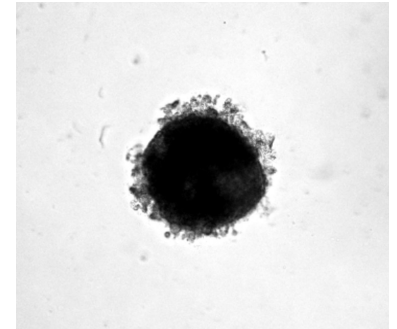
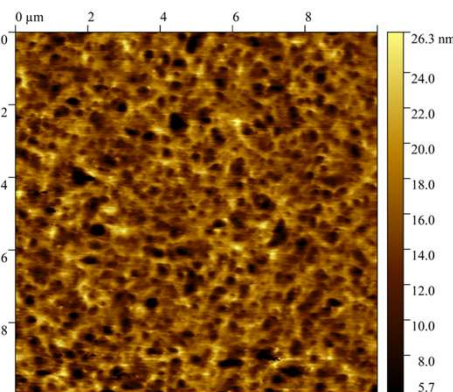
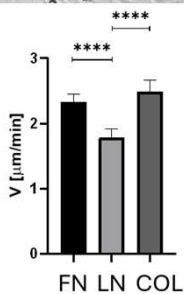
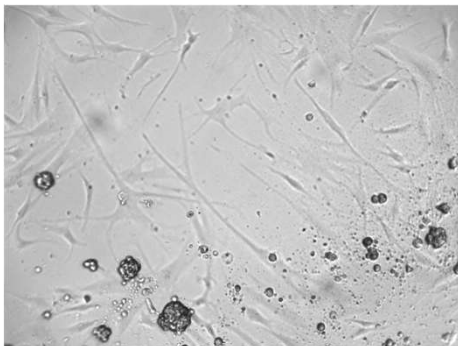
Much Ado About Decoupling



Relativity & Observation



Walk in someone else's shoes



Behind the **understanding and characterisation** of the mechanobiological process responsible for the orchestration of cell coordinated motion, INTERCELLAR will foster the **comprehension, prediction** and **manipulation of a wide range of pathological and physiological process**, enabling the definition of **advanced in-vitro and in-silico tools** as well as future novel diagnostic and therapeutic approaches.