

## **Microfluidic Lab on Chip Platform for the Detection of Arthritis Markers from Synovial Organ on Chip by Miniaturizing Enzyme-Linked ImmunoSorbent Assay Protocols**

**Authors :** Laura Boschis, Elena D. Ozzello, Enzo Mastromatteo

**Abstract :** Point of care diagnostic finds growing interest in medicine and agri-food because of faster intervention and prevention. EliChip is a microfluidic platform to perform Point of Care immunoenzymatic assay based on ready-to-use kits and a portable instrument to manage fluidics and read reliable quantitative results. Thanks to miniaturization, analyses are faster and more sensible than conventional ELISA. EliChip is one of the crucial assets of the European-founded Flamingo project for in-line measuring inflammatory markers.

**Keywords :** lab on chip, point of care, immunoenzymatic analysis, synovial arthritis

**Conference Title :** ICLCTM 2022 : International Conference on Lab-on-a-Chip Technologies and Microfluidics

**Conference Location :** Barcelona, Spain

**Conference Dates :** May 26-27, 2022