## A. TIXIER-MITA LAB.

## Multi-modal Bio-sensing Micro-devices



Centre for Interdisciplinary Research on Micro-Nano Methods (CIRMM) LIMMS/CNRS-IIS (IRL2820) International Collaborative Research Center

Integrated MEMS/NEMS technology

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Information in biological systems, like the neuro-cardiac system, is essentially coded in a multi-modal way through electrical and various bio-molecules signals. For the investigation of that information, multi-modal sensing tools is then needed. Our laboratory is developing multi-modal bio-sensing platforms, which integrate different sensing techniques, for in-vitro biological cells and tissue investigations. We target real-time and high resolution sensing to study cell culture and cell-cell interactions and communication. The platforms are mainly based on Thin-film-Transistor (TFT) technology to realize integrated array of sensors.

