Jeremy BRITES
Joao Lucas RANGEL & Jocelyne MARCIANO
HORIBA, 14, Boulevard Thomas Gobert, Palaiseau, France
jeremy.brites@horiba.com

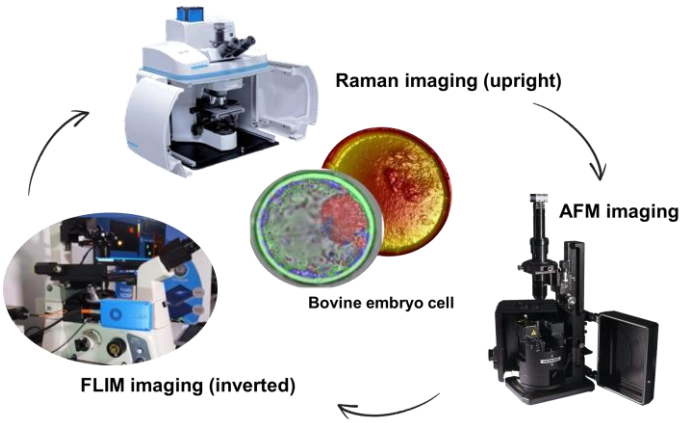
Collaborative brainstorming : Correlate Raman, Fluorescence and AFM Microscopy

Being able to image living samples (cells, viruses, bacteria, diatoms…) and understand kinetics of their reactions to various stimuli is a must nowadays, and often requires super-expensive hardware combinations of multiple modalities.

Revisiting regions of interest between techniques capable to image living organisms such like FLIM, CLSM, SHG, Raman or Scanning Probe Microscopes is a challenge due to the different brands used, different operators, different magnifications and the various optical setups (inverted, diascopic illumination for fluorescence, upright and episcopic for Raman and AFM).

HORIBA has developed a solution based on a multiscale machine-readable pattern (nanoGPS tags, transparent for low magnification or Si based conductive for high magnification compatible with SEM) which can be attached to the sample holder (glass slide, Petri dish, flask, AFM transparent sample holder) and enable to relocate within a few microns the same points of interest.

We would like to hear from RamanFest conference attendees where this new technique could help!



Please join our brainstorming sessions during the Poster Sessions
What are the applications where you would like to test such solution ?
Do you see other modalities that would be worth combining ?
What are your pains using fiducials, shuttles, objective stamp markers ?