

Imaging in Biosciences

If a picture is worth a thousand words, is an image worth a thousand spectra? What if we combine the two and use spectra to construct images?

The combination of spatial/temporal resolution of an image with the chemical information derived from spectroscopy promises the next level of massive information, capable of revealing unprecedented details on tissues, single cells, organelles and specific biomolecules.

The Imaging in Biosciences event is an exciting opportunity for students and researchers interested in medical diagnosis, plant and microbial physiology and biochemistry as well as spectroscopy, to gain new insights into the potential applications of different bioimaging methods, their specificities and complementarities.

See the program below and visit the event!

**** Program may be subject to change in accordance to the evolution of the pandemic.***



Program

8.30-9.00 Registration

9.00 Welcome note, Cláudio Soares, Dean of ITQB NOVA

Morning session, Chair – Smilja Todorovic

9.15-10.15 Richard Ortega, CNRS Research Director, CNRS – University of Bordeaux, France:
Nanosopic X-ray Fluorescence Imaging of Metals in Cells

10.15-11.15 Dorleta Jimenez de Aberasturi, CIC biomaGUNE, Spain: *SERS tags for Bioimaging*

11.15-11.45 Tea/Coffee Break

11.45-12.45 Nick Stone, NHS Consultant Clinical Scientist, University of Exeter, UK: *Raman Label Free Imaging in Medicine* (videoconference)

12.45-14.15 Lunch

Afternoon Session, Chair – Ricardo Louro

14.15-15.15 Noam Shemesh, The Champalimaud Centre for the Unknown, Portugal: *Preclinical Functional MRI: Are We Getting Closer to Specificity?*

15.15-16.15 Christian Huck, University of Innsbruck, Austria: *NIR Spectroscopy of Biological Samples* (videoconference)

16.15-16.45 Tea/ Coffee Break

16.45-17.45 Nuno Santos, iMM, Portugal: *Cardiovascular Risk Evaluation Using Atomic Force Microscopy*

17.45 Concluding Remarks

How to reach ITQB NOVA:

