



21st-22nd SEPTEMBER, 2015

BARCELONA

TOP-DOWN MASS SPECTROMETRY MEETING

COST ACTION BM 1403

Top-down mass spectrometry (MS) has emerged as a powerful proteomic approach. Providing unique information on proteins at the molecular level, this technique allows the study of the combinatorial effects of multiple PTMs and/or mutations occurring on the same polypeptide chain (proteoforms) and their physiological function. Moreover, technical advances in Native top-down strategies allow the study of protein complexes (complexoforms). In parallel, top-down approaches performed at a large scale (top-down proteomics) are expected to become viable alternatives to those of bottom-up in terms of protein identification.

However, in contrast to the latter approach, top-down is considerably more challenging because of the complexity of the data generated and various technical limitations and instrumentation requirements.

Participants will be informed about the current state of top-down MS, the types of instrumentation available, and the applications and potentiality of the technique. Leading experts working in top-down MS and top-down proteomics have been invited to explain the tools they use and their latest achievements. The overall objective of the meeting is to speed up the use of top-down MS in proteomic laboratories and to maximize the results by improving the experimental procedures and data analysis.

Speakers

- Neil Kelleher.** BMBCB and Feinberg School of Medicine, Northwestern University, Chicago IL, US
Yury Tsybin. Spectroswiss, EPFL Innovation Park, Lausanne, Switzerland
Julia Chamot-Rooke. Institute Pasteur, Paris, France
Helen Cooper. University of Birmingham, Edgbaston, Birmingham, UK
Frank Sobott. Antwerp University, Antwerp, Belgium
Jeremy J. Wolff. Bruker Daltonics, Billerica, MA, US
Seema Sharma. ThermoFisher, San Jose, CA, US
Martin De Cecco. Waters, Manchester, UK
Joachim Thiemann. Agilent Technologies, Waldbronn, Germany
Jim Stephenson. ThermoFisher. Cambridge, MA, US
Bernard Delanghe. ThermoFisher, Bremen, Germany
Pierre-Olivier Schmit. Bruker Daltonics, Bremen, Germany

Organizers

- Marta Vilaseca.** IRB Barcelona, Barcelona, Spain
COST Action BM 1403-WG3

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Registration is free of charge but mandatory

<http://www.irbbarcelona.org/en/events>

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