

Introduction

This School will provide key skills to PhD students and postdocs on peptide and protein characterization, starting from introductory lectures on bioactive and antimicrobial peptides, mass spectrometry applications in QC in pharma, and advanced synchrotron-based vibrational techniques (infrared and Raman). The School attendees will have the opportunity to present their research through posters and selected flash presentations, of which the best ones will be awarded with a prize. Attendees will train in ad hoc laboratories and will have the opportunity to meet both academics and companies' specialists and representatives to introduce their work and pave the way for their future career steps.

Con il patrocinio di



comune di trieste



**UNIVERSITÀ
DEGLI STUDI
DI TRIESTE**



**Consiglio Nazionale
delle Ricerche**



In collaborazione con

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SCIENTIFIC**



16th-19th September 2025
UNIVERSITA' di Trieste; IC-CNR;
WATERS SPA
Co-organize:

**ADVANCED TECHNIQUES
APPLIED IN BIOPHARMA ON
PEPTIDES AND PROTEINS**

Aula Sancrotti
Palazzina Q Area Science Park
BASOVIZZA (TS)





Ministero dell'Università e della Ricerca

Tuesday, 16th September

11:30 – 13:00: REGISTRATION

13:00 – 14:30: Free LUNCH

14:30 – 16:30: Visiting FERMI

16:30 – 17:00: COFFEE BREAK

17:00 – 17:45: *Federica Piccirilli* – Cutting-edge IR nanospectroscopies to deepen function-structure paradigm of proteins and peptides

17:45 – 18:30: *Sara Catalini* – UV Resonance Raman: A Bright Window into Protein and Peptide Conformation

19:30: Dinner at Tiglio

Wednesday, 17th September

09:00 – 09:30: Selected Oral presentations

09:30 – 11:00: *Angelo Palmese* (WATERS) – Introduction to mass spectrometry: following the journey of ions in the mass spectrometer

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11:00 – 11:30: COFFEE BREAK

11:30 – 13:00: *Massimiliano Biagini* (GSK) – The role of mass spectrometry from development to commercial release of a vaccine

13:00 – 14:00: LUNCH

14:30 – 17:30: *Valentina Iacuzzi/Riccardo Stucchi* (THERMO FISCHER) – Mass spectrometry Lab Experience

19:30: Dinner at Tiglio

Thursday, 18th September

09:00 – 09:30: Selected Oral presentations

09:30 – 11:00: *Angelo Palmese* (WATERS) – BioAccord LC-MS System: simplicity of operation combined with fit-for-purpose hardware and informatics platform

11:00 – 11:30: COFFEE BREAK

11:30 – 13:00: *Riccardo Stucchi* (THERMO FISCHER) – Accurate and precise quantification with comprehensive proteome coverage using Orbitrap technology

Committee:

*A. Caporale, S. Marchesan,
S. Pattaro, R. Sgarra*



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13:00 – 14:00: LUNCH

14:30 – 17:45: *Valentina Iacuzzi/Riccardo Stucchi* (THERMO FISCHER) – Mass spectrometry Lab Experience

19:30: SOCIAL Dinner at Tiglio

Friday, 19th September

09:00 – 09:15: Selected Oral presentations

09:15 – 09:30: AWARDS

09:30 – 11:00: *Riccardo Sgarra* – To be or not to be labelled: mass spectrometry strategies for quantitative proteomic analyses

11:00 – 11:30: COFFEE BREAK

11:30 – 13:00: *Alessandro Tossi* – Antimicrobial peptides - roles in host defence and potential applications

13:00 – 13:15: Awards, Closing and Farewell

13:15 – 14:45 Free LUNCH



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