

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.

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CITTà di Trieste

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16th-19th September 2025
UNIVERSITA' di Trieste; IC-CNR;
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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

20:30 Dinner at Tiglio

Wednesday, 17th September

09:00 – 09:30 Poster Oral presentation

09:30 – 11:00 : *Palmese* (WATERS) - Mass spectrometry introduction

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11:00 – 11:30: COFFEE BREAK

11:30 – 13:00: *Massimiliano Biagini* (GSK) - **Mass in QC in Biopharma (INDICATIVO)**

13:00 – 14:00: LUNCH

14:30 – 17:30: *Valentina Iacuzzi/Riccardo Stucchi* - Mass spectrometry Lab Experience

20:30 Dinner at Tiglio

Thursday, 18th September

09:00 – 09:30 Poster Oral presentation

09:30 - 11:00: *Angelo Palmese* (WATERS): **BIOACCORD System – QC**

11:00 – 11:30: COFFEE BREAK

11:30 – 13:00: *Riccardo Stucchi* - "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*: Mass spectrometry Lab Experience

20:30 SOCIAL Dinner at Tiglio

Friday, 19th September

09:00 – 09:15 Poster Oral presentation

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 – 14:30 Free LUNCH

