



Società Chimica Italiana

Divisione di Spettrometria
di Massa

<http://www.spettrometriadi massa.it>

DSM Speciale GIOVANI: lavori in corso

Posizioni aperte riguardanti la spettrometria di massa

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Two Ph.D. Student Positions in Mass Spectrometry

We seek to fill a two Ph.D. student positions in our research group in the course of 2018-2019. The topics of the Ph.D. theses will be in one of the following areas:

- Matrix-assisted laser desorption/ionization (MALDI) mass spectrometry, assisted by high-mass detection and chemical cross-linking to investigate large proteins and multi-protein complexes, in particular membrane-bound proteins and protein complexes,
- Application of native electrospray ionization (ESI) mass spectrometry to study noncovalent interactions, especially of complex biomolecular systems with cofactors and multiple ligand binding sites. We work mostly with ESI-MS titration and competition methods.

Prerequisites: M.Sc. degree, Diploma or equivalent in Analytical Chemistry, Physical Chemistry, Biochemistry or related area, strong interest in the development and application of modern instrumentation. Further information see <http://www.zenobi.ethz.ch/>. Starting date: as early as May-June 2018 (position is available immediately), or upon mutual agreement

Applications with CV/publication list/transcripts & grades received, and 2 letters of recommendation to Prof. Renato Zenobi.

Zwei Doktorandenstellen / Massenspektrometrie

In unserer Forschungsgruppe sind 2018-2019 zwei Doktorandenstellen neu zu besetzen. Die Themen der Doktorarbeiten sind auf den folgenden Gebieten:

- Matrix-gestützte Laser Desorptions-/ionisations (MALDI) Massenspektrometrie, gekoppelt mit Hochmassendetektion und chemische Quervernetzung, zum Studium grosser Proteine und Protein-Komplexe. Insbesondere sollen Membran-Proteine und -Proteinkomplexe mittels dieser Methoden untersucht werden.

- Weiterentwicklung und Anwendung der nativen Elektrospray-Ionisations (ESI) Massenspektrometrie zum Studium nichtkovalenter Interaktionen, speziell von komplexen Biomolekularen Systemen mit Kofaktoren und multiplen Ligand-Bindungsstellen. Es kommen hauptsächlich ESI-MS Titrations- und Konkurrenzmethoden zur Anwendung.

Voraussetzungen: Abgeschlossenes Studium (M.Sc., Diplom oder äquivalent) mit Spezialisierung in Analytischer Chemie, Physikalischer Chemie, Biochemie oder einem verwandten Gebiet, Freude an der Entwicklung und Anwendung moderner analytischer Instrumentierung. Weitere Informationen unter <http://www.zenobi.ethz.ch/>. Beginn: May-Juni 2018 (frühestmöglicher Termin / die Stelle ist per sofort verfügbar) oder nach Vereinbarung. **Bewerbungen mit CV und Publikationsliste, Noten und 2 Empfehlungsschreiben direkt an Prof. Renato Zenobi**

Prof. Renato Zenobi
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Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



Ph.D. Student Position, *in situ* Nanospectroscopy

We seek to fill a Ph.D. student position funded by an ERC Advanced grant. The topic of the Ph.D. thesis will be on the development and application of tip-enhanced Raman spectroscopy (TERS) to study sensitive 2-dimensional molecular layers. TERS combines scanning probe microscopy, capable of sub-nanometer topographic resolution, with Raman spectroscopy, which provides a rich chemical fingerprint of analytes. TERS can perform chemical mapping with a resolution below 5nm and is compatible with ambient and liquid conditions.

Our goal is to demonstrate chemical nanoscale resolution on model biological systems such as supported lipid bilayers. The work in this Ph.D. project involves the development and use of TERS in liquid to study biomaterials in their natural environment. *In situ* TERS can open valuable research opportunities in domains as varied as biochemistry, catalysis and materials for energy applications.

Prerequisites: M.Sc. degree, Diploma or equivalent in Chemistry or related area, strong background in analytical chemistry, physical chemistry and instrumentation. Motivation to work with sophisticated instrumentation, spectroscopy, and computer-assisted data evaluation is important. This position provides the opportunity to work with state of the art nanoscale spectroscopy and advance our understanding complex interfaces in their natural state. Collaborations and presentation at national and international conferences are encouraged.

Earliest possible starting date: **1. September 2018.**

Applications should be sent via email to Prof. Renato Zenobi by **May 31, 2018.**

A complete application package will contain a CV, a publication list, transcripts & grades received and 2 letters of recommendation.

For further information, see <http://www.zenobi.ethz.ch/> → Research → Nanoscale Analysis or contact:

Dr. Guillaume Goubert (goubert@org.chem.ethz.ch)

Prof. Renato Zenobi (zenobi@org.chem.ethz.ch)

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PREMIO DSM-SCI 2018

in memoria di Bruno Gioia

PER GIOVANI OPERANTI NEL CAMPO

DELLA SPETTROMETRIA DI MASSA



Scadenza: **30 giugno 2018**





Prossimi Eventi



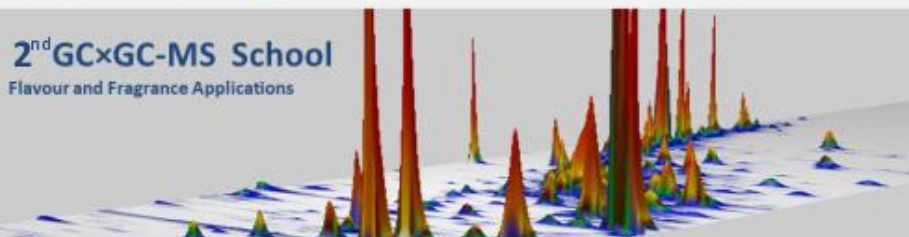
3rd M Pharma School

CNR, ICB, Pozzuoli (NA)

16-17 maggio 2018



2nd GCxGC-MS School
Flavour and Fragrance Applications



Torino
24 - 25 Maggio 2018

6th MS J-DAY



**I GIOVANI E LA
SPETTROMETRIA
DI MASSA**

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di Massa



Agilent Technologies



3rd MS-Wine School

19-20 giugno 2018



High-throughput MS-based proteomics and metabolomics: from cells to clinic

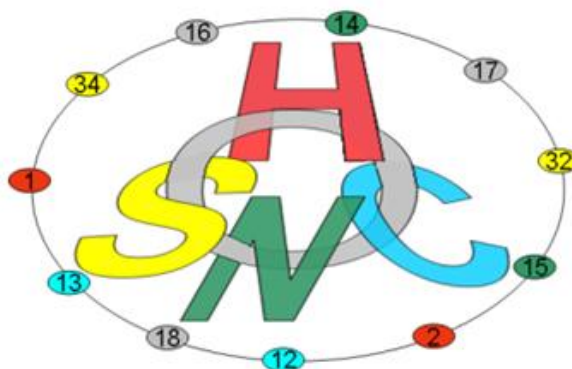
NOVARA | 25 June 2018

Short proteomic school

NOVARA | 26 June 2018



The 2nd Isotope Ratio MS DAY



Messina June 27-29, 2018

<http://www.spettrometriadi massa.it>