



# NEWSLETTER

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Other info on the website  
[www.suswater.eu](http://www.suswater.eu)

## Winter school on “Analytical and toxicological methods. Fundamental of mass spectrometry and recent approaches for trace compounds analysis in complex matrices”.

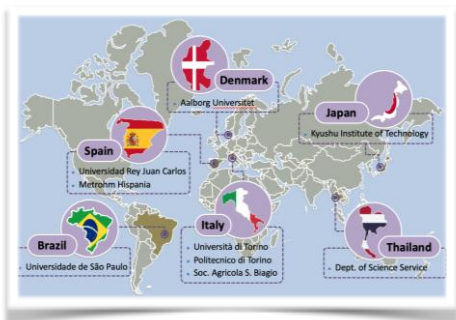
The school was held from 11<sup>th</sup> to 13<sup>th</sup> March 2024 in the Centro Interdipartimentale di Biotecnologie Molecolari, via Nizza 52 Torino (Italy).

The first day was devoted to lectures about water quality, analytical techniques for target and untarget screening analysis and validation strategies.

The determination of inorganic pollutants was addressed on the second morning and in the afternoon the attendees visited the MS laboratories.

The third day (morning) was focused on the use of digital platforms for exploiting MS and toxicological data and on the prioritization of Contaminants of Emerging Concern.





### List of partners:

- ✦ Università degli Studi di Torino (UNITO, Italy)
- ✦ Aalborg Universitet (AAU, Denmark)
- ✦ Politecnico di Torino (POLITO, Italy)
- ✦ Universidad Rey Juan Carlos (URJC, Spain)
- ✦ Universidade de São Paulo (USP, Brazil)
- ✦ Azienda Agricola San Biagio (AASB, Italy)
- ✦ Department of Science Service (DSS, Thailand)
- ✦ Kyushu Institute of Technology (KIT, Japan)
- ✦ Metrohm Hispania (MH, Spain)

## ESOF 2024

Katowice, Poland, 10-11 June 2024

This year, the project coordinator, Prof. Paola Calza, took part in the prestigious MSCA Satellite event during ESOF 2024: EuroScience Open Forum in Katowice, Poland. During this event, selected MSCA Fellows, students, supervisors and project leaders have been invited to work on the most pressing issues in science and society through a combination of discussions, interactive workshops, trainings and networking opportunities. Prof. Calza talked with event's participants about achievements and challenges of SusWater project to promote fruitful collaborations.

## ER/ESR Experiences

### Episode 5 - My experience in Turin - Isadora Luiza Climaco Cunha

My name is Isadora, I'm Brazilian, and currently doing my PhD in the Postgraduation Program in Chemical Engineering at the Polytechnic School of the University of São Paulo (USP), under the supervision of Prof. Dr. Luiz Kulay. Between September 2023 and March 2024, I did a secondment in Italy, at the Chemistry Department of the Università degli Studi di Torino (UniTo), under the supervision of Prof. Dr. Debora Fabbri, and taking part in the RISE-SusWater project. During this period, I conducted laboratory-scale experiments using different advanced treatment technologies, such as membranes and Advanced Oxidation Processes (AOPs), for an industrial wastewater, and collected data that will be used in the next stages of my research project, entitled 'Proposal for Advanced Oxidation Processes for wastewater treatment based on multicriteria decision analysis and multiobjective optimization'.

Also, during my stay, I was involved in activities such as the European Researchers' Night 2023, which aimed to promote the RISE-SusWater project, stimulate interest in science and draw attention of the importance of water treatment and the quality of water resources; and the winter school, where I learned about other techniques for chemical analysis that are essential for detecting complex compounds in water.



However, my experience at UniTo went far beyond scientific research. The immersion in Italian culture, the practice of the language and the friendships I made with students of different nationalities were enriching, broadening my horizons and allowing me to grow personally. In addition, the warm welcome from Prof. Dr. Debora, who always accompanied me in an attentive manner, as well as the discussions with Prof. Dr. Paola Calza, were essential to the success of this initiative, and provided me with professional maturity.

With immense gratitude and satisfaction, I conclude this chapter, hoping that this is only the beginning of a fruitful and long-lasting collaboration between the institutions and their researchers.



## Episode 6 - Secondment memories in Japan - Prof. Claudio Medana

I had the chance to be a visiting scientist in Japan for my SusWater secondment in 2023 and 2024. It was an amazing experience, and I am enthusiastic to have been given the opportunity to have such an interesting experience both from a professional and a human side. At Kitakyushu Institute of Technology (KIT), I connected with a lively academic community and worked alongside researchers who were really interested about analytical chemistry determinations. I gave a talk entitled “MS enviromics: known and unknown pollutants characterization”. My presentation was well received, and the audience was eager to learn and ask questions, which led to some discussions and potential collaborations. I was pleased to see the interest in my field of science, which is related to mass spectrometry. A visit to the KIT laboratories afforded the chance to gain insight into the fascinating scientific applications developed by Professor Ohno’s research group. Thereafter, together with Prof. Ohno himself, our host, and the project coordinator, Prof. Calza, we had the opportunity to design and carry out a series of environmental water samplings, consequently collecting data for scientific work and contributing our expertise to the development of this and future projects.



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It was such an incredible experience, both professionally and personally. The people I met at university and in other contexts were so welcoming, and I loved getting to experience the beautiful blend of traditional culture and modern life. I also had time to visit Kyushu's unique hot springs, Kyoto's thousand-year-old World Heritage temples and some interesting cities such as Kokura and Fukuoka. For one day, while visiting the dynamic reality of Tokyo, I was also able to meet another analytical chemistry colleague and strengthen an existing collaboration. This secondment not only advanced my career but also left me with wonderful memories and a deep respect for Japanese culture and dedication to science.



### EU-Thailand conference on circular economy & food technology

28<sup>th</sup> November 2023, Bangkok (Thailand) - The Athenee Hotel

The project coordinator, Prof. Paola Calza, together with a colleague from Thailand, Dr. Changsuphan, participated to the Conference in Thailand with a lecture about the Aquaculture.

The conference raised the following issues:

- ✔ EU-Thailand cooperation in circular economy and food technologies - research and innovation policy;
- ✔ Success stories under EU R&D programmes: Horizon 2020 & Horizon;
- ✔ Mobility and collaborative R&D: funding opportunities under Horizon;
- ✔ Roundtable discussion on future food technology trends towards net zero.



### NEXT EVENTS

#### SPEA12

17<sup>th</sup>-21<sup>st</sup> June 2024, Belfast, Northern Ireland, United Kingdom

#### The European Researchers' Night

27<sup>th</sup> September 2024, Turin, Italy