



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 101007578



Workshop on
Exploitation of Polymeric Hydrogels for wastewater remediation
and biomedical applications

28th February-1st March 2023, Turin (Italy)

Venue: Politecnico di Torino, Room Denina

Program

Tuesday 28th February 2023

14.15-14.30: Welcome and Introduction to the workshop

Prof. Paola Calza, Università degli Studi di Torino (Italy) and Marco Sangermano, Politecnico di Torino (Italy)

14.30-15:15: Introduction to polymeric hydrogels

Prof. Marco Sangermano, Politecnico di Torino (Italy)

15.15-16.00: Adsorption processes for water treatment

Prof. Amaya Arencibia, Universidad Rey Juan Carlos, Móstoles (Spain)

16.16.30: Coffee break

16.30-17.15: Analytical control of hydrogel-based treatments

Proffs. Paola Calza and Debora Fabbri, Università degli Studi di Torino (Italy)

Wednesday 1st March 2023

9.30-10.00: Cellulose base hydrogels for water treatment

Dr. Camilla Noè, Ecole Polytechnique Palaiseau, Paris (France)

10.00-10.30: UV-Cured Chitosan-Based Hydrogels Strengthened by Tannic Acid for the Removal of Copper Ions from Water

Dr. Rossella Sesia, Politecnico di Torino (Italy)

10.30-11.00: Coffee break



11.00-11.30: UV-Cured chitosan and gelatine hydrogels for the removal of As(V) and Pb(II) from water

Prof. María José López Muñoz, Universidad Rey Juan Carlos, Móstoles (Spain)

11.30-12.00: Effect of Bio-based substances' additives in Alginate and Alginate-Chitosan Hydrogel Adsorbents

Dr. Maria Laura Tummino, Italian National Research Council, Biella (Italy)

12.00-12.30: Hydrogel-Based Adsorbent Material for the Effective Removal of Potentially Toxic Elements from Wastewaters

Proffs. Mery Malandrino and Ornella Abollino, Università degli Studi di Torino (Italy)

12.30-14.00: lunch

14.00-14.30: Design of physical and chemical hydrogels by exploiting the versatility of poly(urethane) chemistry

Prof. Monica Boffito, Politecnico di Torino (Italy)

14.30-15.00: Conductive hydrogels for biomedical applications

Dr. Daniele Testore, Politecnico di Torino (Italy)

15.00-15.30: Injectable hydrogels and bioinks based on polysaccharide and protein interactions for tissue engineering

Dr. Elena Marcello, Politecnico di Torino (Italy)

15.30-16.00. Coffee break

16.00-16.30: Biological hydrogel derived from decellularized tissues: regenerative potential in biomedical applications

Prof. Francesca Boccafoschi, Università del Piemonte Orientale (Italy)

16.30-17.00: Round Table

The participation is free but registration by 10 February is mandatory since we have the possibility to welcome only 40 persons. You can register at the following link:

https://docs.google.com/forms/d/e/1FAIpQLSeUf1RQ_5mxTaG8gh4DXMfFWNVCI0f9Lu-vLuV7WJMA8VxqWA/viewform?vc=0&c=0&w=1&flr=0

The PhD students will receive the document for 2 CFU participating at the workshop.