



SPEAKER

Dr. Rafaela Vasiliadou

American University of Beirut -
Mediterraneo

MICROFLUIDIC ELECTROCHEMISTRY: ENABLING PRECISE CONTROL AND ANALYSIS AT THE MICROSCALE



DATE

29 July 2026
Wednesday



TIME

14:00 CET
(60 min)

ABSTRACT

Microfluidics are miniaturized devices that can perform various electrochemical techniques remotely using low volumes of reagents and generating low amounts of waste. This webinar will provide an introduction to the fundamental principles of microfluidics and electrochemistry, highlighting the advantages of integrating these technologies. Key topics will include enhanced mass transport, reduced sample consumption, improved analytical performance, and emerging applications in chemical and biological analysis. The presentation will also discuss current challenges and future opportunities in the development of microfluidic electrochemical systems.

ABOUT THE SPEAKER

Dr. **Rafaela Vasiliadou** is a Lecturer at the American University of Beirut – Mediterraneo, Cyprus. She obtained her PhD in Analytical Chemistry, specializing in Electrochemistry and Mass Spectrometry, from the University of Hull, United Kingdom. She subsequently completed her postdoctoral training at University College London (UCL), where she focused on the development of microfluidic electrochemical cells. Her research interests lie at the interface of electrochemistry, microfluidics, biology, and sensor technologies, with a particular focus on advancing miniaturized platforms for chemical and biological analysis.

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Registration closes on 28 July 2026 at 14:00 CEST

The Microsoft Teams access link will be sent by email to all registered participants.

