

Interfacial Bioelectrochemistry: Enzymatic NO and CO₂ Reduction and H₂ Evolution

Webinar Mon 8th September 12-13:00 UK time

This webinar presents electrochemical studies of key metalloenzymes relevant to environmental applications. We examine nitric oxide reductase (NOR) and formate dehydrogenase (FDH) for selective NO and CO₂ reduction, and [NiFe]-hydrogenase for H₂ evolution. By coupling enzymes to electrodes, we uncover mechanistic insights into electron transfer, catalytic onset, and mass-transport effects. These findings support the development of sustainable bioelectrocatalytic systems for NO abatement, CO₂ valorisation, and green hydrogen production.



Cristina M. Cordas, PhD in Biochemistry / Physical Biochemistry (2007). She is currently an Assistant Professor at NOVA School of Science and Technology (NOVA FCT) and a Researcher at LAQV-REQUIMTE, an Associated Laboratory in Portugal. Previously, she was Lead Researcher of the Hydrogen Production pillar at HyLab, in Sines. She has authored 55 WoS-indexed articles in peer-reviewed journals, with an h-index of 17 (WoS) and 788 citations (Scopus). Her main scientific areas are Chemistry and Biochemistry, with a focus on (Bio)Electrochemistry.

This webinar is brought to you by EBNets working group on *Bioelectrochemical Systems for Environmental Biotechnology* (BES WG), led by Dr Sharon Velasquez-Orta of Newcastle University.



Join via [TEAMS meeting link](#) ID: 320 202 219 737 3 Passcode: JY6HT7BN
or see EBNets [BES Working Group](#)

