

# Interfacial Bioelectrochemistry: Enzymatic NO and CO<sub>2</sub> Reduction and H<sub>2</sub> Evolution

**Webinar Mon 8th September 12:00-13:00 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 CO<sub>2</sub> reduction, and [NiFe]-hydrogenase for H<sub>2</sub> 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, CO<sub>2</sub> valorisation, and green hydrogen production.



Cristina M. Cordas, PhD in Biochemistry, 2007, FCT-NOVA. Currently, she is a Researcher at LAQV REQUIMTE, at Nova School of Science and Technology. Has 41 published papers in specialized peer-review journals, 4 book chapters, h = 13 and 457 citations (Scopus); 26 oral communications. Supervision of graduated/non-graduated students (1 PhD, 7 masters students, 14 u/grad final projects, 3 graduate research fellows) and 2 postdoc researchers. Scientific area is Chemistry with emphasis in (Bio)Electrochemistry.

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



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