Resource Summary Report

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Bioelectrochemistry protocol For CHI Potentiostat

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Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.xihfkb6

Authors: Rose Jones, Beth Orcutt

Group: Orcutt Deep Biosphere Lab

Summary: The following protocol describes how to prepare microbial fuel cells (MFCs) with Indium Tin Oxide (ITO) electrodes for use as a poised potential enrichment tool, specifically an oxic system to enrich for the cathode-oxidizing community. The protocol describes setting up four “online” MFCs that are connected to a potentiostat at a particular set voltage plus one “offline” unconnected control (to account for non-electrode related changes). One of the online MFCs is a “negative” killed substrate control (to account for abiotic medium-source current fluctuations) and the remaining three MFCs being replicate live samples. This protocol is based on advice primarily from Frauke Kracke and Annette Rowe.

Affiliations: Bigelow Laboratory of Ocean Science, Bigelow Laboratory for Ocean Sciences

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