CURRICULUM VITAE

Elisabeth LOJOU

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CURRENT POSITION — **Research Director at National Center for Scientific Research (CNRS),** UMR 7281 Bioénergétique et Ingénierie des Protéines (BIP) Marseille, France.

Main research topics: Electrochemical interface functionalization for direct and mediated electron transfer on redox enzymes. Hydrogen biofuel cell development.

As an electrochemist, my topics have evolved from an industrial research devoted to the development of new liquid cathodes for high power lithium cells to more fundamental queries concerning long range electron transfer within biological macromolecules. My current interest focuses on the functional immobilization of enzymes from extremophilic bacteria onto electrodes. I achieved an expertise in modifications of electrodes and construction of supramolecular architectures, mimicking protein environments, including physiological partner or membrane, or offering a suitable host matrix. I especially develop original electrochemical interfaces for enzymatic reactions, including catalytic reduction of metals by cytochromes and catalytic transformation of H_2 and O_2 by hydrogenases and oxidases respectively. My group designed the first high temperature H_2/O_2 biofuel cell. We also recently published the first electrochemical evidence of cuprous oxidase activity of a laccase.

POSITIONS AT CNRS	2013	Research Director CNRS, BIP, Marseille
	1995	Researcher CNRS, BIP, Marseille
	1990	Researcher, Electrochem., Catalysis and Organic Synthesis lab., Thiais, France
POST-DOC	1989	SAFT-Leclanché Company, Poitiers, France
UNIVERSITY GRADES	2003	Accreditation to supervise research in chemistry, Aix-Marseille University
	1988	PhD thesis Paris XII University
	1985	Engineer of National School of Chemistry, Rennes, France

SOME RECENT CONTRACTS AS A COORDINATOR

2016-20 ANR Energy 2016, « ENZYMOR», *«Electrode rationalization for efficient bioelectrocatalysis»*. 450 k€
2013-17 ANR BioME 2013, « CAROUCELL », *«Cathode and Anode Rationalization for an OUtstanding H_2/O_2 biofuel CELL»*. 450 k€

SOME RECENT CONTRACTS AS A PARTNER

2019-20 AMIDEX ENZIM-FC “ENZymatic Ion exchange Membrane Fuel Cells »
2020-24 ANR EPIC-H2, «Etude, modélisation et pilotage d’un consortium microbien pour la production d’hydrogène renouvelable».

ADMINISTRATIVE FUNCTIONS

2020-22 Chair of the International Society of Electrochemistry (ISE), division Bioelectrochemistry
2018- Treasurer of the Bioelectrochemical Society
2012-14 French National Chemistry Institute Committees
2008-12 CNRS Evaluation Committee, Electrochemistry division, Section 13
2012-16 CNRS Evaluation Committee, Interdisciplinary division, Section 52
2015-18 Vice-President of French Chemical Society, SCF, Electrochemistry Division
2010-18 Secretary of the French Group of Bioelectrochemistry (GFB)

CONFERENCE ORGANIZATION

2017, 2019 Organization of Symposia dedicated to bioelectrochemistry, ISE, Providence, USA
2016 Organization of the Hydrogenase Conference, Marseille, France
2014, 2016, 2018 Organization of the GFB conferences, France
2019 Organisation of the symposium « Fuel cell/Biofuel cell » at the annual ISE meeting (Durba, south Africa)

PUBLICATIONS

112 Publications