

Professor Ioanis Katakis
Institute of Chemistry
Chemical Engineering School
University Rovira i Virgili
Campus Sescelades, Av. Paisos Catalans 26
43007 Tarragona, Spain
Tel +34 977 55 9655
Fax +34 977 55 9667
E-mail: ioanis.katakis@urv.net

November 30, 2004

Dear Dr. David G. Whitten

Please find enclosed the paper entitled " The Use of the Lamellar Phase for the Construction of Reagentless Biosensors Based on NAD+ Dependent Glutamate Dehydrogenase" submitted as a full article to Langmuir.

The paper describes the synthesis of a new redox active surfactant for the electrochemical oxidation of NAD(P)H. This surfactant allowed to develop a new general method for the construction of reagentless electrochemical biosensors based on NAD(P)(+) dependent dehydrogenases. The method consists of the immobilization of the lamellar phase composed of the lipid 1,2-dioleoyl-sn-glycero-3-phosphatidylcholine, the redox surfactant, NAD+ and bovine glutamate dehydrogenase on graphite electrodes. As far as we are aware, this is the first example that demonstrates the use of the lamellar phase for the fabrication of reagentless electrochemical biosensors based on NAD(P)(+) dependent dehydrogenases.

We confirm that the manuscript, or its contents in some other form, has not been published previously by any of the authors and/or is not under consideration for publication in another journal at the time of submission.

We hope you will find this paper of interest for Langmuir.
A list of potential reviewers for the paper is enclosed.
Thank you in advance for your cooperation.

With best wishes,

Sincerely yours,

Ioanis Katakis

The list of potential reviewers

Professor Michael Gratzel
Dept de Chimie
Institut de Chimie Physique 2
CH-1015 Lausanne
Switzerland
Tel: +41 21 693 3112/55

Fax: +41 21 693 61 00/90
E-mail: michael.graetzel@epfl.ch

Professor Marco Mascini
Dipartimento Sanita Pubblica,
Epidemiologica e Analitica Ampientale
Sezione di Chimica Analitica
Universita di Firenze
Via Gino Capponi 9
50121 Firenze, Italy
Tel: +39 0552757274
Fax: +39 0552476972
E-mail: mascini@unifi.it

Professor Jean-Louis Marty
Centre of Phytopharmacy
University of Perpignan
URA 5054, 52 Av. de Villeneuve
66860
Perpignan Cedex
France
Tel: +33-4-68-66-22-54
Fax: +33-4-68-66-22-23
E-mail: jlmarty@univ-perp.fr

Dr. Renate Naumann
Max-Planck-Institute for Polymer Research
Ackermannweg 10
55128 Mainz, Germany
Tel: (+49) 6131-379-257
Fax: (+49) 6131-379-100
E-mail: naumannr@mpip-mainz.mpg.de

Professor Lo Gorton
Analytical Chemistry
Lund University
P. O. Box 124
SE-221 00 LUND
Sweden
Telephone: 046-222 75 82
Fax: +46 46 222 45 44
E-mail: lo.gorton@analykem.lu.se

Professor H Ti Tien
Membrane Biophysics Lab
Physiology (Giltner Hall)
Michigan State University
East Lansing, MI 48824
USA
Tel: +1 (517) 355 6475 Ext. 1273
Fax: +1(517) 355-5125
E-mail: tien@msu.edu and TIEN@PSL.MSU.EDU