

2nd Short Course on Electrochemical Biosensors

Date:

20th-22th October 2010

Course Description:

The aim of this course is to provide advanced formation on biosensors *Research* and *Development*, describing the concepts, methodologies, principles of operation, design, applications and state of the art. Topics emphasize the field of electrochemical devices.

Course Format:

Intensive 2-3 days classes integrating lecture and laboratory sessions that will include hands-on training on various instruments and applications.

Instructors:

Lecturers from the Chemistry Department of Faculdade de Ciências e Tecnologia and from the Associated Laboratory REQUIMTE.

Invited speakers from the Universities of Lisbon, Coimbra and Porto.

Venue:

Chemistry Dept., Faculdade de Ciências e Tecnologia (UNL), Monte da Caparica

Fee:

€ 150 until 30th Sept. 2010

€ 200 after 30th Sept. 2010

Includes course manual, coffee-breaks and farewell lunch.

Application:

There are no formal academic requirements for this course: all applicants are welcome if they have the necessary background to understand the course material.

Coordinator:

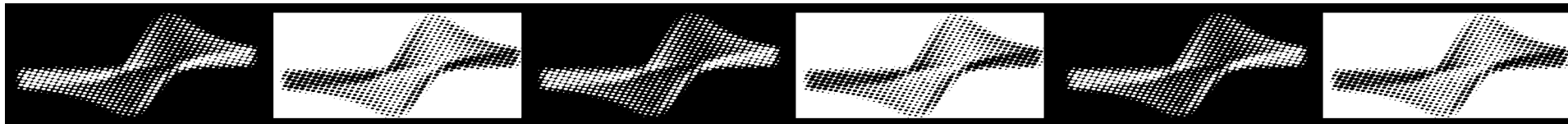
M. Gabriela Almeida (mga@dq.fct.unl.pt)

Course Secretariat:

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<http://www.requimte.pt/index.php?section=417>



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THEORETICAL MODULES

I. Introduction

II. Enzyme Based Biosensors

III. Immobilization methods and materials

III.1. Polymers.

III.2. Sol-gel.

III.3. Self-assembled monolayers.

III.4. Nanomaterials (CNTs, AuNP).

IV. DNA Biosensors

V. Technology

LECTURERS

Gabriela Almeida (GA)

Célia Silveira (CS)

Elizabete Valério (EV)

João Cortês (JC)

Ana Viana (AV)

Ana Brett (AB)

Célia Gomes (CG)

TIME TABLE

Time	Day 1 (Wednesday)	Day 2 (Thursday)	Day 3 (Friday)
9h	/	Module III.1 (EV)	—
10h		Module III.2 (CS)	Module IV (AB)
11h		Module III.3 (AV)	Module V (CG)
12h		Module III.4 (JC)	
13h	Reception	Lunch	Lunch
14h	Module I (GA)	Hands-on I	Hands-on II
15h			
16h	Module II (GA)		
17h			