



Barcelona, Jun 3-4th 2010

Introduction to electrophysiology:

" Electrophysiology for non-electrophysiologists. Microelectrode arrays and E² technology."

Obtaining low-complexity measurements of electrical activity from cultured neurons would be advantageous to many neurobiologists, especially to those with limited electrophysiology background or no interest in setting-up complex conventional electrophysiology rigs. This course focuses on the use of microelectrode arrays and E2 technologies as strategies that facilitate electrophysiology on cultured neurons by non-electrophysiologists. Substantial background information on electrical properties of neurons and biophysics of the presented technologies will also be provided. The aim is to help attendees to take up the provided tools and independently implement electrical recordings upon return to their labs.

ALERIA BIODEVICES fosters neuroscience education opportunities via its Summer Workshop Programme, days 3th and 4th of June of 2010. The Workshop focuses on different aspects of gaining professional knowledge in electrophysiology of cultured neurons. The workshop will cover the following topics:

DAY 1. (June 3):

*Basics of electrical excitability and classic electrophysiological technics.

Session 1 (morning, 9:00-10:30)

Speaker: Dr. Enric Claverol

*Introduction to electrical properties of neurons (I).

Session 2 (11:00-12:30):

Speaker: Dr. Guenter Gross.

*Introduction to electrical properties of neurons (II).

-----Lunch-----

14:45 Visit to the Barcelona Science Park, Neuroengineering Group and Aleria Biodevices

Session 3 (15:30-17:30):

*Classical electrophysiological techniques.

Speaker: Enric Claverol-Tinturé

End day 1

Lecturers:

Prof. Guenter Gross

Head of Center for Network Neuroscience
University of North Texas, USA

Prof. Enric Claverol-Tinturé,

Head of Neuroengineering Lab at Catalonia Institute for
Bioengineering - IBEC - Spain
& CEO Aleria Biodevices SL



Day 2 (June 4):

*State of the art electrophysiology techniques for the non-electrophysiologist

Session 1 (9:00-10:30):

Speaker: Dr. Guenter Gross

*Microelectrode Arrays (MEAs)

Session 2 (11:30-13:00):

Speaker: Dr. Enric Claverol

*E2 multiwell electrophysiology

----- Lunch -----

Session 3 (15:00-17:00):

Lab Work with E2 technology.

Speakers: Juan Carlos Díaz and Jennifer Olmos

APPLICATION FORM

NAME:

SURNAME:

RESEARCH CENTER:

UNIVERSITY:

COUNTRY:

E-mail :

Phone number:

Do you have previous experience on electrophysiology ?

Yes

NO

If yes, please let us know something about your former experience:

Do you want to book an hotel room near Parc Cientific de Barcelona (****)?

YES

NO

The number of nights on hotel should be at least 3. Check in, Jun 2nd and Check out, Jun 5th.

Price / night: 95 € breakfast included. (Special price for Workshop Attenders).

To book hotel, pre-payment of € 285,00 should be made to: IBAN: ES4400810452590001164823 BIC: BSAB ESBB. Please send copy of wire transfer by fax or mail.

ALERIA BIODEVICES may grant 10 participant's position with 50 % hotel expenses for students from countries out of Spain or Barcelona.

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