COST ACTION CM1407

2nd Training School Announcement

Lisbon, 18-20 September 2017

Synthesis, isolation and structural elucidation of bioactive compounds

Universidade Lusófona de Humanidades e Tecnologias

Lisbon, Portugal

Location: Lisbon, Portugal 18-20 September 2017

Venue: CBIOS, Universidade Lusófona de Humanidades e Tecnologias, Campo Grande 376, 1749-024 Lisboa

Participants:

The Training School is addressed to ECIs and PhD students.

How to apply:

Send a CV highlighting the expertise to natchemdrugs@gmail.com by **July 1st**

After collecting all the applications, the Scientific Committee will select the Trainees according to the following criteria:

- geographical distribution (no more than one participant from a laboratory)
- multi-disciplinarily
- gender

A **Grant** will be afforded to each selected Trainee.

Deadline for abstract submission **July 1st**

Scientific Committee:

Bruno Botta – Action Chair of CM1407 (Italy)
Sandra Liekens – Vice Chair (Belgium)
Markus Kalesse – Leader WG-1 (Germany)
Juana Díez – Leader WG-2 (Spain)
Milica Pešić – Leader WG-3 (Serbia)
Gunter Schneider – Leader WG-4 (Sweden)
Mark Brönstrup – Library responsible (Germany)
Daniele Passarella – STSM Coordinator (Italy)
Mattia Mori (Italy)
Michael S. Christodoulou (Italy)

Local Organizing Committee:

CBIOS (Research Center for Biosciences and Health Technologies)
Universidade Lusófona de Humanidades e Tecnologias (ULHT)
Patrícia Rijo
Maria M. M. Santos
Filipa Marcelo
Maria José U. Ferreira
Carlos M. Monteiro

Sponsored by Buchi

Description:

The main purpose of the Training School is to introduce and apply procedures commonly used in chemistry research (students and early career researchers), namely on the flow synthesis, extraction and isolation of natural products and structural elucidation of bioactive compounds.

The use of flow chemistry synthesis, extraction and isolation techniques namely based on Buchi equipments and the structural characterization (mainly 1D- and 2D-NMR spectrum analysis, using MestreNova software) of natural products will be employed.

The results will be immediately analyzed under the trainers' supervision.

The first day will cover flow chemistry synthesis works, the extraction and isolation of natural products will be the focus of the second day works namely, about Buchi equipments and the third day will cover the structural characterization works using the MestreNova software.

PROGRAMME

Synthesis, isolation and structural elucidation of bioactive compounds

18th September 2017

Flow chemistry synthesis

Coordinator: Maria M. M. Santos and Rafael Antunes

8:30 – 9:15 Registration of participants / Poster setting

9:15 – 9:30 Opening: L. Monteiro Rodrigues - CBIOS Director
Patrícia Rijo – Local organizer
Bruno Botta – Chair of the Action

9:30 -10:30 Lecture I, Flow Chemistry (Rafael Antunes, Hovione FarmaCiência SA, Portugal)

10:30 – 11:00 Coffee break / Poster Session

11:00 – 12.00 Lecture II Flow Chemistry (to be announced, FFUL, Portugal)

12:00 – 12.30 Lecture III Flow Chemistry-case study (to be announced, Hovione FarmaCiência SA, Portugal)

12:30 – 14:00 Lunch break

14:00 – 16:00 Flow chemistry synthesis – laboratory work

16:00 – 16:30 Coffee break / Poster Session

16:30 – 18:00 Flow chemistry synthesis – laboratory work

OPTIONAL: Get together Dinner 20:00 - 22:00

19th September 2017

Extraction and isolation of natural products

Coordinator: Patrícia Rijo and Mattia Mori

9:00 -9:30 Lecture III (Daniele Passarella, Università degli Studi di Milano, Italy)

9:30 -10:00 Lecture IV (M. Kalesse, Leibniz University Hannover, Germany)

10:00 -10:15 Lecture V (Mattia Mori, Italy)

10:15 -10:30 Lecture VI (Patrícia Rijo, Universidade Lusófona de Humanidades e Tecnologias, Portugal)

10:30 – 11:00 Coffee break / Poster Session

11:00 – 13:00 Extraction/isolation of natural products using a Buchi equipment (laboratory)

13:00 – 14:30 Lunch break

14:30 – 16:00 Extraction/Isolation of natural products (laboratory)

16:00 – 16:30 Coffee break / Poster Session

16:30 – 18:00 Extraction/Isolation of natural products using a Buchi equipment (laboratory)

OPTIONAL: Cupcakes party 18:00-19:00

20th September 2017

Natural products structural characterization works using the MestreNova software

Coordinator: Maria José U. Ferreira and Patrícia Rijo

9:00 – 10:30 Combining spectroscopic technics in natural products characterization (Practical exercises; laboratory work)

10:30 – 11:00 Coffee break / Poster session

11:00 – 12:30 Combining spectroscopic technics in natural products characterization (Practical exercises; laboratory work)

12:30 – 14:00 Lunch break

14:00 – 14:30 Lecture VII about Pd-catalysed synthesis (Antonella Goggiamani Sapienza University of Roma, Italy)

14:30 – 14:40 Selected Talk I (Best Poster Prize competition)

14:40 – 14:50 Selected Talk II (Best Poster Prize competition)

14:50 – 15:00 Selected Talk III (Best Poster Prize competition)

15:00 – 15:30 Coffee break

15:30 – 16:00 Lecture VIII "NMR guide to unravel molecular recognition events" (F. Marcelo, FCT-UNL, Portugal)

16:00 – 17:00 Final Conclusions and Best Poster Prize/Farewell Party