

Dear Colleagues,

It is our great pleasure to announce the consecutive **39th** edition of the "**Chromatographic methods of investigating the organic compounds**" symposium, to be held from May 31st till June 3rd, 2016, in Szczyrk, Poland.

Within the framework of this conference, four main thematic sessions are planned (in English), and also the undergraduate and postgraduate (PhD) student sessions (in Polish and English, in the parallel):

- (1) Metabolomics; Chairman: **Prof. Piotr Suder** (Department of Biochemistry and Neurobiology, AGH University of Science and Technology, Krakow, Poland)
- (2) Proteomics; Chairman: **Prof. Jerzy Silberring** (Department of Biochemistry and Neurobiology, AGH University of Science and Technology, Krakow, Poland)
- (3) Food chemistry; Chairperson: **Dr. Irena Vovk** (National Institute of Chemistry, Laboratory for Food Chemistry, Ljubljana, Slovenia), Co-Chairperson: **Dr. Danilo Corradini** (National Research Council, Institute of Chemical Methodologies, Rome, Italy)
- (4) Pharmaceutical sciences; Chairperson: **Prof. Danica Agbaba** (Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia), Co-Chairperson: **Prof. Anđelija Malenović** (Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia)

For the registered participants, the workshop in the field of metabolomics will be organized on May 31st, 2016, and led by Prof. Marek Smoluch and Dr. Przemysław Mielczarek from the Department of Biochemistry and Neurobiology, AGH University of Science and Technology, Krakow, Poland, in co-operation with the firm Shim-Pol, provider of the workshop equipment (LCMS-8050, manufactured by Shimadzu, Japan). In the attachment please, find a detailed program of the workshop. For foreign participants interested in the workshop, classes will be held in English. For logistic reasons, a limited number of the workshop attendants is foreseen (up to 30 people).

Full registration fee equal to 360 EURO and a discount registration fee (**up to 30% discount**, upon consent of the Organizers) will cover:

- (1) Participation to all lecture and poster sessions of the conference
- (2) Possibility to participate in the conference workshop (depending on the order of registration)
- (3) Full board (breakfasts, lunches, dinners, and coffee breaks)
- (4) Participation in social events (grill)
- (5) Accommodation in a comfortable 4-star hotel
- (6) Conference materials.

All Participants to the Symposium are cordially welcome!

ATTENTION:

- (1) We foresee a considerable amount of conference scholarships, specially addressed to young scientists (below 35 years of age) and the post-docs (up to 30% discount on regular registration fee). Those interested in obtaining a conference scholarship are kindly requested to electronically apply to the Organizers, including a list of published papers and an overall impact factor (IF) value. This promotional offer is open till the end of March, 2016 only.
- (2) Our conference is the MSc and PhD students and the participants of the student scientific organizations friendly. To them, an option is addressed to present the results of their research in a poster or oral form. The conference participation cost for foreign MSc or PhD students equals to **200 EURO** and it covers full board and accommodation. Foreign MSc and PhD students are kindly asked to include in their application a letter signed by a university authority, which confirms their current student status.

Workshop outline (on the 31st May, 2016)

Part 1 Electrochemical simulation of Selegiline metabolism

Appointed instructor: Przemysław Mielczarek, PhD (Department of Biochemistry and Neurobiology at the AGH University of Science and Technology in Krakow, Poland)

- (1) Selegiline extraction from Segan medicine.
- (2) Selection of basic electrolyte for metabolism simulation.
- (3) Electrochemical oxidation of Selegiline on Glassy Carbon electrode by means of ROXY™ system (Antec, The Netherlands).
- (4) Selection of optimal parameters for electrochemical oxidation.
- (5) Sample preparation for *on-line* EC-MS and *off-line* EC/LC-MS/MS analyses.

Part 2 Presentation proposed by Shim-Pol

Part 3 UHPLC-MS/MS analysis of Selegiline metabolites

Appointed instructor: Marek Smoluch, DrSc (Department of Biochemistry and Neurobiology at the AGH University of Science and Technology in Krakow, Poland)

- (1) Preparation of sample obtained in training 1 for LC-MS analysis.
- (2) Reversed phase chromatography (UHPLC Nexera, Shimadzu) coupled to mass spectrometry detection (LCMS 8050, Shimadzu).
- (3) Discussion on possible modes of MS analyses (Full Scan, SIM, MRM, MSⁿ).
- (4) Obtained results analysis.
- (5) Demonstration of a new, compact LC System from Shimadzu.

Biographies of appointed instructors:



Przemysław Mielczarek completed his Ph.D. degree from the AGH University of Science and Technology in Krakow, Department of Biochemistry and Neurobiology in 2015. He received his M.Sc. degree in Chemistry from the Jagiellonian University in Krakow in the group of Prof. J. Silberring in 2010. He did an internship in the Ludwig Institute for Cancer Research in Uppsala, Sweden, under the direction of prof. U. Hellman in the field of MALDI mass spectrometry. His research interests focus on application of mass spectrometry in drugs and narcotics metabolism analyses. Currently he accepted a position as scientific assistant at the Academic Center for Materials and Nanotechnology, AGH University of Science and Technology in Krakow.



Marek Smoluch is an Associate Professor in the Department of Biochemistry and Neurobiology at the AGH University of Science and Technology in Krakow, Poland. He received his M.Sc. and Ph.D. degrees at Jagiellonian University in Krakow. He also worked as a postdoctoral fellow in LC Packings – A Dionex Comp. and as a mass spectrometry coordinator at the VU University in Amsterdam. Currently his research involves applications of plasma-based ionization methods for mass spectrometry. The main focus is directed to rapid analyses of psychoactive compounds.