18th HELLENIC SYMPOSIUM on Medicinal Chemistry

25-27 FEBRUARY 2021

Online Symposium

ORGANIZER: HELLENIC SOCIETY OF MEDICINAL CHEMISTRY

SPONSORED BY EFMC: EFMC European Federation for Medicinal Chemistry

SCIENTIFIC PROGRAM

www.helmedchem2020.gr

ORGANIZATIONAL SUPPORT: ZiTA CONGRESS

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WELCOME NOTE

Dear Colleagues,

Due to the current condition related to COVID-19 pandemic and the measures announced by the Greek government, the Organizing Committee of the **18th Hellenic Symposium on Medicinal Chemistry (HSMC-18)**, in agreement with the **Hellenic Society of Medicinal Chemistry (HSMC)**, decided the Symposium to be held on-line on **February 25 – 26 – 27, 2021**.

The 18th Hellenic Symposium on Medicinal Chemistry continues the tradition of biannual meetings established since 35 years in Greece as a forum for the discussion of recent advances in medicinal chemistry.

The topics include Drug design and lead identification and optimization, protein-protein interactions and protein degradation, ADME/Tox properties, advances in Synthetic Medicinal Chemistry, Natural Products, Pharmacology as well as the impact of artificial intelligence in the integration of data- intensive practices to Drug Discovery.

Under this multidisciplinary research umbrella the major therapeutic areas, such as treatment of inflammatory diseases, infectious diseases, metabolic disorders, cardiovascular diseases, neurodegenerative diseases and oncology will be discussed. Sections on Pharmaceutical Analysis will be integrated in the symposium program.

The official language of the Symposium is English and the scientific program consists of Plenary Lectures, Key Note Lectures, Round Table, Oral and Poster Presentations.

(Poster presentations will be uploaded on the symposium's website or will be presented very shortly during the poster sessions in the scientific program)

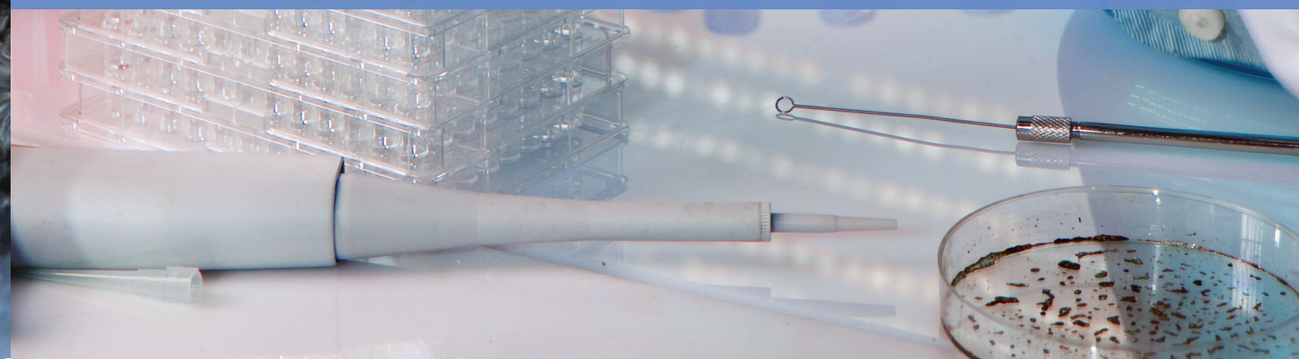
All participants will obtain certificate of attendance.

We welcome you an d we thank you for your active participation.

The Symposium Chair
Prof. Emmanuel Mikros
National and Kapodistrian University of Athens
President of the Hellenic Society of Medicinal Chemistry

The Hellenic Society of Medicinal Chemistry Secretary
Assoc. Professor Manolis Fousteris
University of Patras

Posters



POSTER 057

DESIGN AND SYNTHESIS OF NOVEL NNRTIS INHIBITORS FOR THE TREATEMENT OF AIDS

Anthi Petrou*, Athina Geronikaki*, Phaedra Eleftheriou**, Melpomeni G. Akrivou, Ioannis Vizirianakis****

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***School of Pharmacy Department of Pharmacology and Pharmacognosy, Aristotle University of Thessaloniki, Thessaloniki, Greece

POSTER 058

SYNTHESIS, ANTIPROLIFERATIVE ACTIVITY AND IN SILICO TESTING OF 17-PICOLYL AND PICOLINYLIDENE ESTRA-1,3,5(10)-TRIENE DERIVATIVES

Milica Ilić*, Ivana Kuzminac*, Dimitar Jakimov**, Marija Sakač

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**Oncology Institute of Vojvodina, Sremska Kamenica, Serbia

POSTER 059

ANTIOXIDANT ACTIVITY OF EXTRACTS OF HYBRIDES SPECIES OF THE GENUS CRATAEGUS FROM BOSNIA AND HERZEGOVINA

Repac Paula*, Fazlić Elzina*, Topčagić Anela*, Čopra-Janićijević, Amira*, Klepo Lejla*

Faculty of Science, University of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

POSTER 060

ANTIOXIDANT ACTIVITY OF PLANT EXTRACTS OF THE FRAXINUS SPECIES

Fazlić Elzina*, Repac Paula*, Topčagić Anela*, Vidic Danijela*, Klepo Lejla*

Faculty of Science, University of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

POSTER 061

DEVELOPMENT AND VALIDATION OF A RP-IPC-HPLC METHOD FOR THE DETERMINATION OF EPHEDRINE HYDROCHLORIDE IN NASAL OINTMENT

Konstantinos Kallinteris*, Konstantinos Gkountanas**, Haris Boutsikaris**, Yannis Dotsikas*

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**Greek Military Pharmaceutical Laboratories, Athens, Greece

POSTER 062

A MILD AND EFFICIENT METHODOLOGY TOWARDS TETRAZOLE INDOLES

Xiaofang Lei,* Panagiota Lampiri,* Pravin Patil,** Alexander Dömling,** Constantinos G. Neochoritis*

*Department of Chemistry, University of Crete, Heraklion, Greece

**Department of Pharmacy, drug design group, University of Groningen, Groningen, The Netherlands

POSTER 063

DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF 2-(4-(PHENYLSULFONYL)PIPERAZINE-1-YL) PYRIMIDINE ANALOGUES AS NOVEL INHIBITORS OF CHIKUNGUNYA VIRUS

Verena Battisti*[a], Julia Moesslacher[b], Rana Abdelnabi[c], Leen Delang[c], Johan Neyts[c], Ernst Urban[a] Thierry Langer[a]

[a]University of Vienna, Department of Pharmaceutical Chemistry, Vienna, Austria

[b]CURA Marketing GmbH, Innsbruck, Austria

[c]KU Leuven, Rega Institute for Medical Research, Leuven, Belgium

POSTER 064

IMPROVED MULTI-CURIE AND GMP-COMPLIANT TWO-STEP RADIOSYNTHESIS PROCEDURE OF [18F] PSMA-1007

Kaplanis Michael**, Kiritsis Christos**, Tsotakos Theodoros**, Nikoladou Maria**, Pelecanou Maria*, Bouziotis Penelope*, Papadopoulos Minas*, Pirmettis Ioannis* Tsoukalas Charalampos*

*N.C.S.R "Demokritos", Athens, Greece

**BIOKOSMOS S.A., Area Panormos, Lavrio, Greece

POSTER 065

EXPERIMENTAL STUDY OF ANTIOXIDANT AND ANTICANCER ACTIVITY OF NEW ASYMMETRICALLY SUBSTITUTED THIOCARBOHYDRAZONES

Milena Milošević*, Ilija Cvijetić**, Aleksandra Božić, Nevena Prlainović***, Snežana Bjelogrlić****, Mina Popović*, Aleksandar Marinković****

*University of Belgrade, Institute of Chemistry, Technology and Metallurgy, National Institute of Republic of Serbia

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****National Cancer Research Center of Serbia, Belgrade, Serbia

POSTER065

Experimental study of antioxidant and anticancer activity of new asymmetrically substituted thiocarbohydrazones

Milena Milošević[*], Ilija Cvijetić[**], Aleksandra Božić[***], Nevena Prlainović[***], Snežana Bjelogrlić[****], Mina Popović[*], Aleksandar Marinković[***]

[*]University of Belgrade, Institute of Chemistry, Technology and Metallurgy, National Institute of Republic of Serbia

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[****]National Cancer Research Center of Serbia, Belgrade, Serbia

Thiocarbohydrazones and their derivatives represent a class of compounds with various biological and pharmaceutical properties, including strong antioxidant, antitubercular, antimicrobial, and anticancer activity [1]. Therefore, in this work, new asymmetrically substituted bis-(thiocarbohydrazones) (TCHs) bearing 2-pyridine and quinoline moiety were synthesized and showed promising *in vitro* antioxidant and anticancer activity (Figure1). The results suggest that antioxidant activity of TCH depends on the structure, substituent type and antioxidant assay used. The maximum antioxidant activity in DPPH and CUPRAC tests was observed for compound with 8-quinolyl and 8-hydroxy-2quinolyl moiety. Additionally, anticancer assays revealed that compounds interfere with cancer cell mobility at concentrations below 10 μM, and exert low toxicity toward healthy human HaCaT fibroblasts. The results of this study represent a good foundation for further research and development of novel iminopyridines with improved antioxidant and anticancer activity.

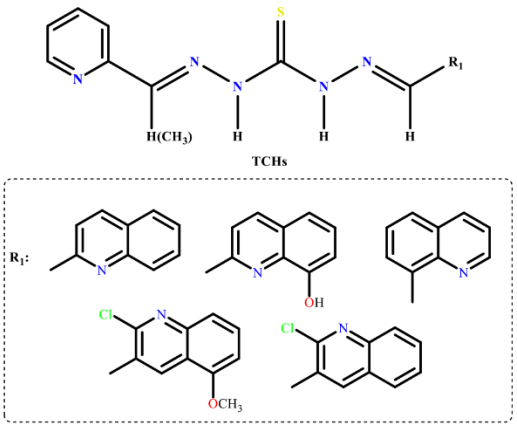

Figure1. Structure of assymetrically substituted TCHs

[1] A. Božić et al., RSC Adv., vol. 6, no. 106, pp. 104763, 2016.

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www.helmedchem2020.gr

Certificate of Attendance

This is to certify that

MILOSEVIC MILENA

attended the **18th Hellenic Symposium on Medicinal Chemistry**, organised on **February 25th - 27th, 2021** in **Athens**

The President of the Hellenic Society of Medicinal Chemistry
Prof. Emmanuel Mikros
National and Kapodistrian University of Athens
Symposium Chair

The Secretary of the Hellenic Society of Medicinal Chemistry
Assoc. Professor Manolis Fousteris
University of Patras

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