



Scholars International Conference on
**Frontiers in Chemistry and Drug Discovery &
Pharmaceuticals and Drug Delivery Research**



December
02-03, 2019
Madrid, Spain

Hosted By:
SCHOLARS CONFERENCES LIMITED

76 Tamworth Road, Newcastle Upon Tyne
United Kingdom, NE4 5AL
info@scholarsconferences.com
+44 2035140512

Scientific Program

Day 1

December 02, 2019 | Madrid, Spain

08:30-09:00 Registrations

09:00-09:15 Opening Ceremony

Keynote Forum

09:15-09:50 **Title: Synthetic and mechanistic aspects of new cascade reactions of electron-deficient acetylenes with N-, O- and S-Nucleophiles**

Sergey Vasilevskiy, Institute of Chemical Kinetics and Combustion, Russia

09:50-10:25 **Title: Conformational scan across reaction path may give us non reactive transition states with low energy**

Andrus Metsala, Taltech, Estonia

Group Photo

Networking and Refreshments @ 10:25-10:45

10:45-11:20 **Title: Cryo-em and x-ray free electron laser enabled structure based drug discovery on challenging membrane protein targets**

Michael Hennig, leadXpro AG, Switzerland

11:20-11:55 **Title: New targets inspired by old leads: "Non-traditional" activities of the β -lactam**

Monika I Konaklieva, American University, USA

11:55-12:30 **Title: A multidisciplinary approach in the successful identification of novel carbapenemase inhibitors**

Donatella Tondi, University of Modena and Reggio Emilia, Italy

12:30-13:05 **Title: Results of new TMJ arthroscopic rigid disc clamping technique**

Guilherme Omizzolo, ICATM, Brazil

Lunch Break @ 13:05-13:45

13:45-14:20 **Title: Discovery and Synthesis of JNJ-54861911, A novel orally active BACE1 inhibitor**

Yuji Koriyama, Shionogi & Co., Ltd., Japan

Session: Organic Chemistry, Medicinal Chemistry, Novel Drug Delivery Systems, Pharmaceutical Technology, Biologic Drugs, Pharmaceutical Nanotechnology & Nanomedicine, Major Challenges in Drug Delivery and Pharmaceutical Formulations

Session Chair: Pilar López Cornejo, University of Seville, Spain

Session Chair: Anselmo J Otero-Gonzalez, Havana University, Cuba

14:20-14:45 **Title: From supramolecular chemistry to the design of new functional nanomaterials: A useful frontier of chemistry**

M Nieves Pina Capo, University of Balearic Islands, Spain

14:45-15:10 **Title: Self-emulsifying drug delivery systems comprising chlorohexidine and alkyl- EDTA: A novel approach for augmented antimicrobial activity**

Aamir Jalil, University of Innsbruck, Austria

15:10-15:35 **Title: Methacrylate-based hydrogels for transscleral drug delivery in the treatment of retinoblastoma**

Jakub Sirc, Institute of Macromolecular Chemistry of the Czech Republic, Czech Republic

15:35-16:00 **Title: Functional characterization of Cm-p5, an antifungal peptide derived from the coastal snail *Cenchritis muricatus* (Gastropoda: Littorinidae)**

Anselmo J Otero-Gonzalez, Havana University, Cuba

Networking and Refreshments @16:00-16:20

16:20-16:45 **Title: Nano technology facilitate Berberine to ameliorate atherosclerosis through actions against inflammation agitated endothelial dysfunction in High-Fat-diet fed Apoe(-/-) mice**

Lulu Wang, Institute of Materia Medica, China

16:45-17:10 **Title: Ruthenium-based micelles and liposomes used as nanovectors with pharmacological and pharmaceutical applications**

Pilar López Cornejo, University of Seville, Spain

17:10-17:35 **Title: Sinomenine combined with ligustrazine hydrochloride or paracetamol in animal models of incisional and carrageenan induced inflammatory pain**

Tianle Gao, Institute of Materia Medica, China

17:35-18:00 **Title: Transcytosis and bioresponses of transferrin functionized nanogranules in epithelium**

Qiang Zhang, Peking University, China

Panel Discussions

Day 2

December 03, 2019 | Madrid, Spain

Keynote Forum

09:30-10:05 **Title: The mechanism of trialkylborohydride-catalyzed hydrosilylation and its implications- A DFT Study**

Mateusz Nowicki, Adam Mickiewicz University, Poland

10:05-10:40 **Title: Various types of quantum coherence in biological systems implies scale dependence of spatio-temporal coherence**

Michael Fundator, National Academy of Sciences, USA

Networking and Refreshments @ 10:40-11:00

Session: Medicinal Chemistry, Theoretical and Computational Chemistry, Theoretical and Computational Chemistry, Pharmaceutical Formulations, Pharmaceutical Technology

Session Chair: Sergey Vasilevskiy, Institute of Chemical Kinetics and Combustion, Russia

Session Chair: Ofer Binah, Israel-Institute of Technology, Israel

11:00-11:25 **Title: Enhanced brain delivery of carbamazepine via nanostructured lipid carriers for the treatment of epilepsy and anxiety**

Hideaki Kimura, Bruker Japan K.K., Japan

11:25-11:50 **Title: Targeting Cholinesterases: Virtual Screening of Chemical Libraries for Potential Anti-Alzheimer's Candidate**

Raghuvir Ramakant Pissurlenkar, Goa College of Pharmacy, India

11:50-12:15 **Title: New Stilbene-Ammonium based nicotinic ligands: Insights into Alpha9-10 and Alpha7 nAChRs responses**

Francesco Bavo, University of Copenhagen, Denmark

12:15-12:40 **Title: Quantum chemical calculations of charge transport characteristics for new generations of sunflower molecules**

Denisa Cagardová, Slovak University of Technology in Bratislava, Slovakia

12:40-13:05 **Title: A simple degradation model for polyethylene cable insulation degradation in combined radiation and thermal environments**

Anna Vykydalová, University of Technology in Bratislava, Slovakia

Lunch Break @ 13:05-13:45

- 13:45-14:10** **Title: Depressed Beta-adrenergic inotropic responsiveness and intracellular calcium handling abnormalities in duchenne muscular dystrophy patients' induced pluripotent stem cell-derived cardiomyocytes**
Ofar Binah, Israel-Institute of Technology, Israel
- 14:10-14:35** **Title: PD-L1 targeted Doxorubicin immunoliposomes: A novel chemo-immunotherapeutic nanoplatform for melanoma treatment**
Sara Zalbah, University of Navarra, Spain
- 14:35-15:00** **Title: Using multi-tip emitter devices to achieve increased and stable formulation atomization**
Ekhoerose Valentine Onaiwu, De Montfort University, UK
- 15:00-15:25** **Title: Enhanced brain delivery of carbamazepine via nanostructured lipid carriers for the treatment of epilepsy and anxiety**
Alam Zeb, Riphah International University, Pakistan

Poster Presentations 15:30-16:00

- CFPDDS001** **Title: Determination of phenolic compounds in calendula officinalis l.**
Agustina Guiberteau Cabanillas, University of Extremadura, Spain
- CFPDDS002** **Title: Targeted drug delivery system comprising NIR fluorescent switchable reporter based on xanthene-indolenine styryl dye- real time monitoring of drug release**
T M Ebaston, Ariel University, Israel
- CFPDDS003** **Title: Cancer therapy using chalcone based formulations**
Yasmine Hassan Alyassin, De Montfort University, United Kingdom
- CFPDDS004** **Title: Synthesis of Pyrazole and Pyrimidine structure**
Lamouri Hammal, University of Science and Technology Houari Boumediene (USTHB), Algeria
- CFPDDS005** **Title: Hepatoprotective potentials of betulinic acid in carbon tetrachloride induced liver damage in wistar rats**
Kelly Oriakhi, University of Benin, Nigeria
- CFPDDS006** **Title: Structure–property relationship studies of copper(I) complexes of nanosized hypodentate ligands and evaluation of their antitumor and antimicrobial activities**
Amel F ElHusseiny, Alexandria, University, Egypt
- CFPDDS007** **Title: High transfection efficiency promoted by PEGylated poly(2-aminoethyl methacrylate hydrochloride)-based nanocarriers**
Daniela Santo, University of Coimbra, Portugal

Networking and Refreshments @ 15:45-16:05

B2B Meetings and Panel Discussions

WELCOME MESSAGE



Dear Colleagues and Guests!

With great pleasure, on behalf of the Scientific Committee, I would like to warmly welcome all participants for the “Scholars International Conference on Frontiers in Chemistry and Drug Discovery” which to be held on December 02-03, 2019 at Madrid, Spain.

This event highlights advances in current strategies for the Chemistry and Drug Discovery. About 20 scientific sections are presented at the Conference and delegates can choose topics for a report and discussion on their own interests and specializations.

We hope that the forum will become for you an effective platform for the exchange of innovative ideas and new achievements and this interaction of scientists from different fields of chemistry creates good perspective for the discovery of new horizons in interdisciplinary sciences.

We believe that this conference will contribute to the establishment of stronger links between scientists from different countries. We also hope that all participants will have a good opportunity to expand their knowledge about the amazing history and unique culture of the Spanish people.

We are glad that you joined us to participate in this prestigious event and wish you pleasant and memorable stay in Madrid, city of unique charm.

Regards

A handwritten signature in blue ink, appearing to read 'Sergey'.

Chair & Prof. Sergey F. Vasilevskiy
Member of the Scientific Committee of Conference
Institute of Chemical Kinetics & Combustion Novosibirsk, Russia