Scientific Program



3rd International Conference on Medicinal Chemistry & Computer Aided Drug Designing

December 08-10, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA



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OMICS Group Conferences

5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499 Email: medchem2014@omicsgroup.us Sierra Ballroom



Opening Ceremony

Keynote Forum 09:55-10:00 Introduction 10:00-10:25 Concepción González-Bello University of Santiago de Compostela, Spain
09:55-10:00 Introduction 10:00-10:25 Concepción González-Bello
10:25-10:50 Patrick Y S Lam Drexel University, USA
Coffee Break 10:50-11:05 @ Foyer
11:05-11:30 Thorsten Nowak C4X Discovery Holdings PLC., UK
Track 1: Rational Drug Design
Track 2: Computer-Aided Drug Design and Structure Determination Session Chair: Patrick Y S Lam, Drexel University, USA
Session Co-Chair: Concepción González-Bello, University of Santiago de Compostela, Spain
Session Introduction
Title: Predicting ligand binding affinity: A comparative study on the use of docking vs. Bayesian categorization and random 11:30-11:50 forest recursive partitioning
David C Kombo, Proteostasis Therapeutics, Inc., USA
11:50-12:10 Title: In silico screening for anti-HPV agents using pharmacophore models Tatsuya Takagi, Osaka University, Japan
12:10-12:30 Thorston Nowak CAX Discovery Holdings PLC LIK
Title: Computer aided design and optimization of kinase and phosphatase inhibitors Kal Ramnarayan, Sapient Discovery, LLC., USA
12:50-13:10 Title: The use of epitopes against schistossomiasis: The role of molecular modelling Moacyr Comar Junior, Federal University of São João del Rei, Brazil
13:10-13:30 Title: Bacterial type II dehydroquinase enzyme: From the reaction mechanism to the structure-based design of inhibitors Concepción González-Bello, University of Santiago de Compostela, Spain
13:30-13:50 Title: Structure-based design of covalent inhibitors or protein-protein interactions Maurizio Pellecchia, Sanford-Burnham Institute for Medical Research, USA
Lunch Break 13:50-14:35 @ Tiburon-Sausalito
Track 3: Quantitative Structure-Activity Relationships Track 4: Advanced Medicinal Chemistry Track 8: Drug Interactions and Drug Metabolism Track 9: Neurodegenerative Diseases
Session Chair: Thorsten Nowak, C4X Discovery Holdings PLC., UK Session Co-Chair: Istvan J Enyedy, Biogen Idec, USA
Session Co-Chair: Isrvan J Enyeay, Biogen Idec, USA Session Introduction
14:35-14:55 Title: Revisiting INH: QSAR-based design of new anti-tubercular compounds
rilomena martins, Universidade de Lisboa, Portugal
14:55-15:15 Title: In vitro COX inhibitory activity of novel α-aminoarylpropionic acid derivatives A G Zhamharyan, Yerevan State Medical University, Armenia
Title. Never developments in decision and economy
13:13-13:33 Istvan J Enyedy, Biogen Idec, USA
Title: Comparative molecular modeling study between the pre-fusion and post-fusion conformations of newcastle disease 15:35-15:55 virus: Homology modeling, and virtual screening Mohammed A Khedr, King Faisal University, KSA
Coffee Break 15:55-16:10 @ Foyer
16:10-16:30 Title: Peptide-displaying phage technology in breast cancer diagnosis Thaise Gonçalves Araújo, Federal University of Uberlandia, Brazil
16:30-16:50 Title: Discovery of small molecule blockers of protein-protein interactions using DNA-encoded small-molecule libraries Nils Hansen, VipergenApS, Denmark
16:50-17:10 Title: Neuroprotective properties of compound isolated from Dianthus superbus L. Choong Je Ma, Kangwon National University, Korea
17:10-17:30 Title: Investigation of human CA1-induced toxicity in the Drosophila model of motor neuron degeneration Jian Liu, Xi'an Jiaotong-Liverpool University, China
17:30-17:50 Title: Applications of Protection Protectio
Islaro Corres-Ciriano, Bioinformatique Structurale Institut Pasteur, France
17:50-18:10 Title: Data and Compute Intensive eScience Approaches in Computational Medicinal Chemistry
17.50_18:10 Title: Data and Compute Intensive eScience Approaches in Computational Medicinal Chemistry

December 09, 2014 Day 2

Sierra Ballroom

Keynote Forum

09:30-09:55 Pierre Falson IBCP. France

Track 5: Cancer Research in Medicinal Chemistry

Track 6: New Approaches in Drug Discovery

Session Introduction

Title: Research and development for preparation and preclinical evaluation of novel low-molecular-weight phospha sugar

09:55-10:15 antitumor agents targeting IER5/Cdc25B

Session Chair: Andrew B McElroy, Eligochem Ltd., UK

Mitsuji Yamashita, Shizuoka University, Japan

Title: Strategies to optimize and use bacterial cytochromes p450 for drug discovery & development 10:15-10:35

Nico P E Vermeulen, VU University Amsterdam, Netherlands

Title: New agonists of the CB, cannabinoid receptor: Discovery of a new class of analgesic compounds 10:35-10:55

Pier Giovanni Baraldi, Università di Ferrara, Italy

Coffee Break 10:55-11:10 @ Foyer

Title: Polar drugs 11:10-11:30

Andrew B McElroy, Eligochem Ltd., UK

Title: Drug discovery against category A-C pathogens through MEP pathway 11:30-11:50

Prabagaran Narayanasamy, University of Nebraska Medical Center, USA

Title: Discovery of novel lead compounds by large scale diverse encoded chemical libraries 11:50-12:10

Jin Li, HitGen Ltd., China

Title: In silico approach to predict ADME-Tox properties of small organic molecules: Challenges and opportunities for drug discovery 12:10-12:30 Maria Miteva, University Paris Diderot, France

Track 7: Drug Development and Delivery System

Track 10: Receptors and Inhibitors

Session Chair: Niren Murthy, University of California, USA

Session Co-Chair: Peter Teriete, Sanford-Burnham Institute for Medical Research, USA

Session Co-Chair: Nico P E Vermeulen, VU University Amsterdam, Netherlands

Session Introduction

12:30-12:50 Title: *In vivo* delivery of transcription factors with chemically modified oligonucleotides
Niren Murthy, University of California, USA

Title: Eradication of asbestos tumors in vivo with histone deacetylase inhibitors-polymer conjugate nanoparticles for acid-

12:50-13:10 responsive drug delivery

Philippe Bertrand, Institut de Chimie des Milieux et Matériaux de Poitiers, France

Lunch Break 13:10-14:00 @ Tiburon-Sausalito

14:00-14:20 Title: The σ_1 receptor as target for novel drugs

Bernhard Wünsch, Westfalian Wilhelms-University of Münster, Germany

Title: Using Computer-Aided Drug Design (CADD) techniques to optimize the natural product-derived phenylmethylidene-

14:20-14:40 hydanto in scaffolds as promising antimetastatic leads

Mudit Mudit, D'Youville College School of Pharmacy, USA

Title: Design and development of small peptidomimetics of RXFP1 for the treatment of acute heart failure 14:40-15:00

Akhter Hossain, University of Melbourne, Australia

Title: Exploring pharmacological potential of Brazilian plants: SAM database-A tool for recording and comparison of molecules

15:00-15:20 isolated from plants of the Brazilian semiarid

Bruno Andrade, State University of Southwest Bahia, Brazil

Coffee Break 15:20-15:35 @ Foyer

Title: Novel chemistry-based tools to study epigenetic enzymes in inflammation 15:35-15:55

Frank J Dekker, Pharmaceutical Gene Modulation, The Netherlands

Title: Current SAR on HIV: The flow from phenotypic assays via medicinal chemistry to in silico design 15:55-16:15

Peter Teriete, Sanford-Burnham Institute for Medical Research, USA

16:15-16:35 Title: Structure guided design and synthesis of SAR107375A, aselective and potent dual thrombinand factor Xa inhibitor

Jerome Meneyrol, Sanofi-Aventis R&D, France

Title: Molecular modeling approach to investigate the binding mode of 4-nerolidylcatechol into two subtypes of matrix

16:35-16:55 metalloproteinases

Kely Medeiros Turra, University of São Paulo, Brazil

14:30-15:30 Poster Presentations @ Tiburon-Sausalito

17:30-18:30 Cocktails sponsored by Journal of Drug Designing @ Tiburon-Sausalito

December 10, 2014 Day 3

Sierra Ballroom

Track 11: Membrane Proteins as Pharmaceutical Targets

Session Chair: Victor J Hruby, University of Arizona, USA

Session Co-Chair: Pierre Falson, IBCP, France

Session Introduction

Title: Tracking anti-tumor drugs: Ruthenium(II)-cyclopentadienylcomplexes as promising agents M Helena Garcia, Universidade de Lisboa, Portugal 09:00-09:20

Title: TAAR1 ligands as prospective neuroleptics: From D-neuron study Keiko Ikemoto, Iwaki Kyoritsu General Hospital, Japan 09:20-09:40

09:40-10:00 Title: Small-molecule modulators of thiamine transport in pathogenic bacteria
Anna K H Hirsch, University of Groningen, The Netherlands

Title: The behavior of detergents around membrane proteins is more complex than supposed, as revealed by a new method

10:00-10:20 of quantitation

Pierre Falson, IBCP, France

Title: Design of multivalent ligand for the detection and treatment of disease 10:20-10:40

Victor J Hruby, University of Arizona, USA

10:40-11:00 Title: Polymer 'ruthenium-cyclopentadienyl' conjugates: A new approach to fight cancer

Andreia Valente, Universidade de Lisboa, Portugal

Coffee Break 11:00-11:15 @ Foyer

Track 12: Recent Research and Developments

Session Chair: Jetze J Tepe, Michigan State University, USA

Session Co-Chair: Bin Xu, Virginia Tech, USA

Session Introduction

11:15-11:35 Title: Design of mechanistically distinct proteasome inhibitors for the treatment of multiple myeloma
Jetze J Tepe, Michigan State University, USA

11:35-11:55 Title: Molecular characterization and design of a key new hormone, irisin Bin Xu, Virginia Tech, USA

Title: Structure-based discovery of new modulators targeting nuclear X receptor alpha for cancer therapy 11:55-12:15

Ying Su, Sanford-Burnham Medical Research Institute, USA

12:15-12:35 Title: Privileged heterocycles by palladium-catalyzed aerobic oxidative isocyanide insertion Romano V A Orru, VU University Amsterdam, Netherlands

Lunch Break 12:35-13:20 @ Tiburon-Sausalito

13:20-13:40 Title: Visual binding: A radically new concept to support the medicinal chemist's quest for innovative NMEs Carsten Detering, BioSolve IT Inc., USA

Title: A G-quadruplex/i-motif switch in the HRAS promoter as target for anthrathiophenediones that show a strong anti-

13:40-14:00 proliferative activity in urinary bladder cancer cells

Luigi E Xodo, University of Udine, Italy

Title: Multi-target approach to anti-inflammatory drugs - in silico and medicinal chemistry Eugen Proschak, Goethe-University of Frankfurt, Germany 14:00-14:20

Title: Identification and optimization of tertiary sulfonamides as RORc inverse agonists 14:20-14:40

Benjamin P Fauber, Genentech, Inc., USA

Title: Massive changes to the biophysical properties of DNA upon binding antiviral polyamides 14:40-15:00

Gaofei He, University of Missouri-St. Louis, USA

Coffee Break 15:00-15:15 @ Foyer

Title: The communion of medicinal chemistry and nanotechnology in anticancer therapeutics 15:15-15:35

Debatosh Majumdar, Glycosyn LLC., USA

Title: Evaluation of Satureja hortensis leaves essential oil pharmacological activities 15:35-15:55

A P Manjikyan, Yerevan State Medical University, Armenia

Title: Phytochemicals and antioxidant capacities from Dacryodes rostrata fruits Prasad K N, Monash University Malaysia, Malaysia 15:55-16:15

Title: Selection and characterization of RNA aptamers targeting the genomic 5'-UTR in the dengue virus 16:15-16:35

Adriana Freitas Neves, Universidade Federal de Goiás, Brazil

Title: SurR9C84A exhibits cardioprotective effects against melphalan induced cardiotoxicity in primary human cardiomyocytes 16:35-16:55

Ajay Ashok, Deakin University School of Medicine, Australia

Award Ceremony

Bookmark your dates



4th International Conference on

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