

**RSC Pakistan 1<sup>st</sup> International Conference on Medicinal Chemistry and Drug Discovery**  
**Oct 18-19, 2018, COMSTECH, Islamabad, Pakistan.**

**Day-1, October 18, 2018**

Registration (8:15 to 9:00)			
Recitation from the Holy Quran: 9:00 to 9:05 Welcome note from COMSTECH: 9:05 to 9:10 Welcome note from RSC: 9:10 to 9:15			
Session	Talk & Speaker	Time	Chair/Co-Chair
1	"In order to produce more novel and affordable medicines for patients, we need greater access to cutting edge medicinal chemistry" <b>Prof. Dr. Chas Bountra</b> (Oxford University, UK)	09:15–9:55	Chair: <b>Prof. Dr. Gul Majid Khan</b> (Quaid-I-Azam University)
	"Recent advances and application of computational chemistry approaches for drug discovery" <b>Prof. Dr. Zaheer ul Haq Qasmi</b> (University of Karachi, Pakistan)	09:55–10:25	Co-Chair: <b>Dr. Saima Sadaf</b> (University of the Punjab, Lahore)
	"General method for the synthesis of substituted cyclopentenones <i>via</i> $\alpha$ -borylzirconacyclopentenones intermediates" <b>Dr. Ghassan Albarghouti</b> (Birzeit University, Palestine)	10:25–10:40	
	"Adventures in functional assignment and inhibition of metallo-enzymes" <b>Prof. Dr. Christopher J. Schofield, FRS</b> (Oxford University, UK)	10:40–11:10	
Tea/Coffee Break (11:10 to 11:30)			
2	"From plants to medicines-ethnopharmacology and metabolomics in drug development" <b>Prof. Dr. Michael Heinrich</b> (University College London, UK)	11:30-12:00	Chair: <b>Prof. Dr. Shahid Hameed</b> (Quaid-i-Azam University)
	"An expedition of an oncology drug candidate: What is next after establishing activity"? <b>Dr. Rana Sanyal</b> (Bogazici University, Turkey)	12:00-12:15	Co-Chair: <b>Prof. Dr. Zareen Akhtar</b> (Quaid-i-Azam University)
	"Synthesis and characterization of biopolymer-coated silica and titania nanoparticles for drug delivery applications" <b>Prof. Dr. Humaira Siddiqui</b> (Quaid-i-Azam University, Pakistan)	12:15-12:30	

	"Discovery and development of chemical tools, drugs and new targets with limited resources" <b>Prof. Dr. Grant Churchill</b> (Oxford University, UK)	12:30–13:00	
<b>Lunch/Prayers Break (13:00 to 14:00)</b>			
<b>3</b>	"Production of proteins for research and development" <b>Dr. Nicola Burgess-Brown</b> (Oxford University, UK)	14:00–14:30	<b>Chair:</b> <b>Prof. Dr. Farzana Ansari</b> (Pakistan Council for Science & Technology)  <b>Co-Chair:</b> <b>Dr. Rana S. Anjum</b> (Forman Christian College, Lahore)
	"Innovative chemical diversity: a potential path to drug discovery" <b>Dr. Hidayat Hussain</b> (Weinberg University, Germany)	14:30–14:45	
	"Crystal Engineering – an efficient approach towards enhanced biological activities" <b>Dr. Sammer Yousuf</b> (University of Karachi, Pakistan)	14:45–15:00	
	"An integrative approach for R&D of drugs and nutraceuticals from medicinal plants" <b>Prof. Dr. Kelvin Chan</b> (Liverpool John Moores University, UK)	15:00–15:30	
	"The effects of p110 isoform specific inhibitors on mouse neutrophils and macrophages" <b>Dr. Sameera Khaliq</b> (University of Baluchistan, Pakistan)	15:30–15:45	
	"Synthesis, molecular modeling and QSAR of 5-O-Acyl-Pinostrobin derivatives as an analgesic drug candidate" <b>Prof. Dr. Siswandono</b> (Universitas Airlangga, Indonesia)	15:45–16:00	
	"Designing proteins for applications-unlimited possibilities" <b>Prof. Dr. Muhammad Waheed Akhtar</b> (University of the Punjab, Pakistan)	16:00–16:15	
<b>Poster evaluation/Tea break 16:15-17:00</b>			

**RSC Pakistan 1<sup>st</sup> International Conference on Medicinal Chemistry and Drug Discovery**  
**Oct 18-19, 2018, COMSTECH, Islamabad, Pakistan.**  
**Day-2, October 19, 2018**

Session	Talk & Speaker	Time	
4	"NEW drugs from OLD pathways - teaching nature new tricks" <b>Prof. Dr. Tom Simpson</b> (Bristol University, UK)	09:00–09:30	<b>Chair:</b> <b>Prof. Dr. Bushra Mirza</b> (Quaid-i-Azam University)  <b>Co-Chair:</b> <b>Prof. Dr. Jamshed Iqbal</b> COMSATS University, Abbottabad)
	"Hit-antimicrobial and cytotoxic activities of new 4-Substituted pyrazolidines and isoxazolidines derivatives" <b>Dr. Tarek Yousfi</b> (Centre National de Recherche en Biotechnologie, Algeria)	09:30–09:45	
	"Effect of natural compounds in active fractions of ginger and turmeric on biofilm formation, cell wall constituents and expression of <i>MurD</i> Gene in <i>E. Coli</i> and <i>S. Aureus</i> " <b>Prof. Dr. Anjum Nasim Sabri</b> (University of the Punjab, Pakistan)	09:45–10:00	
	"Using NMR spectroscopy to study enzyme mechanism and inhibition" <b>Prof. Dr. Tim Claridge</b> (Oxford University, UK)	10:00–10:30	
	"Is there a rationale for redefining drugs and reviewing drugs related issues" <b>Prof. Dr. Khanzadi Fatima Khattak, FRSC</b> (Woman University Swabi, Pakistan)	10:30–10:45	
	"Biomedical sciences research at CEMB" <b>Prof. Dr. Tayyab Husnain</b> (University of the Punjab, Pakistan)	10:45–11:10	
Tea/Coffee Break (11:10 to 11:30)			
5	"Structure guided drug discovery for rare diseases" <b>Prof. Dr. Wyatt Yue</b> (Oxford University, UK)	11:30–12:00	<b>Chair:</b> <b>Prof. Dr. Farooq Anwar</b> (University of Sargodha)  <b>Co-Chair:</b> <b>Dr. Abida Latif</b> (University of the Punjab, Lahore)
	"Kinetics and mechanism of oxidation of captopril by pyridinium chlorochromate" <b>Dr. Rana Obaid</b> (Palestine Polytechnic University, Palestine)	12:00–12:15	
	"Mixed bag of transformations for easier access to diverse biologically active lead compounds" <b>Dr. Abbas Hassan</b> (Quaid-I-Azam University, Pakistan)	12:15–12:30	
	"Discovery of MLLT1/3 yeast domain Inhibitors" <b>Dr. Oleg Fedorov</b> (Oxford University, UK)	12:30-13:00	

Lunch/Prayers Break (13:00 to 14:00)			
6	"XChem - high through fragment-screening using X-ray crystallography" <b>Dr. Anthony Bradley</b> (Oxford University, UK)	14:00–14:30	<b>Chair:</b> <b>Prof. Dr. Bushra Khan</b> (Lahore College for Women University)  <b>Co-Chair:</b> <b>Prof. Dr. Aamer Saeed</b> (Quaid-i-Azam University)
	"Application of nanotechnology in drug delivery" <b>Prof. Dr. Rawia M. Khalil</b> (National Research Centre, Egypt)	14:30–14:45	
	"Synthesis, characterization and biological activity of novel anti-microbial drugs of transition metal complexes based on the biologically active non-steroidal carboxylates and nitrogen based ligands" <b>Dr. Hijazi Issa Hussien Abu Ali</b> (Birzeit University, Palestine)	14:45–15:00	
	"Diversity-driven exploration of chemical space around purine-like scaffolds: synthesis of bioactivity" <b>Dr. Anton V. Dolzhenko</b> (Monash University, Malaysia)	15:00–15:15	
	"Subtyping of Hepatitis C virus using Bioinformatics and mass spectrometry data" <b>Prof. Dr. Reaz Uddin</b> (University of Karachi, Pakistan)	15:15–15:30	
	"The <i>in silico</i> characterization of salicylic acid analog coding gene clusters in selected <i>Pseudomonas fluorescence</i> strains" <b>Dr. Asif Ullah Khan</b> (Abdul Wali Khan University Mardan, Pakistan)	15:30–15:45	
	"How Computational Chemistry can help in Drug Discovery: Brief Discussion on Two Running Projects " <b>Dr. M. Qaiser Fatimi</b> (COMSATS University Islamabad, Pakistan)	15:45–16:00	
Concluding Session/Tea Break 16:00-17:00			

Program Organised in Collaboration with:



\*\*\*\*\*