

14TH INTERNATIONAL SYMPOSIUM ON NATURAL PRODUCT CHEMISTRY (ISNPC-14)

November 6 – 8, 2018, Karachi, Pakistan

TENTATIVE SCIENTIFIC PROGRAM

MONDAY, NOVEMBER 5, 2018

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| 1830-1900 | Registration |
| 1900-1945 | Inaugural Ceremony |
| 1945-2045 | Cultural Evening (Participants are requested to wear their cultural dresses) |
| 2100 | Gala Dinner |

TUESDAY, NOVEMBER 6, 2018

0900-1115 Plenary Lectures (Prof. Salimuzzaman Siddiqui Auditorium)

| Chair : | Tom Simpson |
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| Co-Chair: | Bruno Figadere |
| Time | Speaker/ Title |
| 0900-0945 | Richard R. Schmidt Acid-Base Catalysis in Glycosidations: <i>A Nature Derived Alternative to the Generally Employed Methodology</i> |
| 0945-1030 | M. Iqbal Choudhary Sourcing Nature for Drug Discovery-Current and Future Perspectives |
| 1030-1115 | S. Chandrasekaran Synthetic Applications of Carbohydrate-derived Donor-acceptor Cyclopropanes |

1115-1145 Tea Break

1145-1315 Concurrent Invited Lectures

| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title |
|-----------|--|--|---|
| 1145-1215 | Shaden Khalifa The Novel Steroidal Alkaloids Dendrogenin A and B Promote Proliferation of Adult Neural Stem Cells | Hai-Tao Tang NH ₄ I-Mediated Electrochemical Dehydrogenation Coupling/Cyclization Reactions | Abdurrahim Kocyigit Role of Antioxidant Phytochemicals in the Prevention, Formation and Treatment of Cancer |
| 1215-1245 | Jamia Azdina Jamal Pharmacognostical, Phytochemical and Pharmacological Comparative Studies of <i>Marantodes pumilum</i> (Blume) Kuntze Varieties | Shulin Zhao Spinach-Based Biomass Quantum Dot-Copper nanocomposites for <i>In Vivo</i> Biothiols Imaging and Dual Enhanced Photodynamic Therapy of Tumors | Aris Lacis Using Autologous Bone Marrow Derived Mononuclear Stem Cells for Stimulating Tissue Regeneration and Functional Activity |
| 1245-1315 | Heng-Shan Wang Anticancer Effects of Natural Products and their Derivatives from YAO Ethnic Medicine of Guangxi China | Amr Mohamed Nassar Complete Removal of Anionic Dyes from Aqueous Solutions | Ikram A Burney Precision Medicine in Oncology: Illusion or a Reality |

1315-1400 Lunch / Prayer Break

1400-1600 Concurrent Keynote cum Invited Lectures

| Session-A Isolation and Structural Elucidation of Natural Products (L.E.J. Hall A) Chair: Uli Kazmaier Co-Chair: J. H. Huang | | Session-B Medicinal and Synthetic Chemistry (L.E.J. Hall B) Chair: Habib-ur-Rahman Co-Chair: Khalid M. Khan | | Session-C Analytical Chemistry of Natural Products (L.E.J. Hall C) Chair: R. R. Schmidt Co-Chair: | | Session-D Bioassay Screening, Pharmacology, Biotechnology, and Others (L.E.J. Hall D) Chair: Ibrahim Jantan Co-Chair: D. J. Haleem | |
|--|---|--|--|--|-----------------------|---|-----------------------|
| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title |
| 1400-1430 | Young Ho Kim (Keynote) Contemporary Scientific Efficacy of <i>Cimicifugae rhizoma</i> | Alain Krief (Keynote) Stereoselective Synthesis of 2,3-Oxidosqualene and Lanosterol Analogues to Determine the Mechanism of Steroid Biosynthesis | I. P. Gerathanassis (Keynote) High Resolution NMR Structures of Natural Products in Solution Based on DFT Calculations of Chemical Shifts vs. Solved by Diffraction Methods: <i>Competitors or Collaborators?</i> | Hameed Khan (Keynote) The Human Genome Project and the Discovery of AZQ (US Patent 4,146,622) for Treating Brain Cancer | | | |
| 1430-1500 | Rami Mamdouh Arafah Induction, Elicitation and Determination of Total Secondary Metabolites from <i>In-vitro</i> Growing Cultures of <i>Arbutus andrachne</i> L. | Lalith Jayasinghe Search for Bioactive Compounds from Sri Lankan Medicinal Plants | Syed Ghulam Musharraf Phytochemical Analyses using Liquid Chromatography- Mass Spectrometry: <i>A Solution or A Change?</i> | Abdollah Javidan Molecular Docking Study on Anticancer Activity of the Rocaglates and Related Natural Products Containing Cyclopenta[b]benzofuran Derivative | | | |
| 1500-1530 | Anwar. H. Gilani Therapeutic Potential of Functional Foods in Cardiovascular Disorders - <i>Translational Studies</i> | Brunel Jean Michel Natural Polyamines: <i>Synthesis and Biological Evaluation</i> | Hikmat S. Hilal Natural Dye Sensitizers for Nano-semiconductor Photo-Catalysis in Solar- driven Water Purification and Disinfection | Atia-ul-Wahab From Folk Knowledge to Clinical Studies- <i>Examples of our Work in Medicinal Plants-based Drug Discovery</i> | | | |
| 1530-1600 | --- | Nor Azah M.A. Translating the Malaysian Herbal Heritage into High Quality Raw Materials and Products | Sakina Yagi Effect of Solvent and Method of Extraction on Biological Activity and Chemical Constituents of Selected Medicinal Plants | Hafizur Rehman Natural Products as a Vital Source for the Discovery of Antidiabetic Lead Compounds | | | |

1600-1630

Tea Break

1630-1710

Concurrent Session Lectures

| Session-A Isolation and Structural Elucidation of Natural Products (L.E.J. Hall A) Chair: Sahar I. Mostafa Co-Chair: M. Shaiq Ali | | Session-B Medicinal and Synthetic Chemistry (L.E.J. Hall B) Chair: Sabira Begum Co-Chair: S. AbouZid | | Session-C Analytical Chemistry of Natural Products (L.E.J. Hall C) Chair: H. S. Hilal Co-Chair: Masood Parvez | | Session-D Bioassay Screening, Pharmacology, Biotechnology, and Others (L.E.J. Hall D) Chair: Anna U. K. Kara Co-Chair: Farzana Shaheen | |
|---|--|--|---|---|-----------------------|---|-----------------------|
| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title |
| 1630-1650 | G.D.A. Privantha Rush and Reed Plants (Cyperaceae & Typhaceae) Used | Farooq Ahmed Khan A Concise Total Synthesis of Muramyl Dipeptide | Nohad A. AlOmari Organoselenium Compounds as Phytochemicals from the Natural Kingdom | Manal Fardon The Homo-isoflavonoid, 7-O-Methyl-3, 9- dihdropunctatin, Inhibits Serum-induced | | | |

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| | for Traditional Craft Industry in Sri Lanka | | | Synthetic Phenotype of Arteriolar Smooth Muscle Cells |
| 1650-1710 | Ajaz Hussain Phytochemical Analysis, Protein Profiling and Biofabrication Studies on <i>Avenafatua</i> | Mahwish Akhtar Design, Synthesis, Characterization, <i>In-vitro</i> Antimicrobial Studies of Fluoroquinolones-amide Derivatives | Hina Siddiqui Designing of Small-molecule-druggable Chemical Space- <i>Examples of the Lead Discovery for Obesity, Multi Drug Resistance Infections, and Diabetes</i> | Sadia Ajaz Population-specific Significant Clinical Implications of Glutathione S Transferases (<i>GSTM1</i> and <i>GSTT1</i>) Gene Polymorphisms in Epithelial Cancers |

1800

City & Shopping Visits (For Foreign Guests Only)

WEDNESDAY, NOVEMBER 7, 2018

0900-1115 Plenary Lectures (Prof. Salimuzzaman Siddiqui Auditorium)

| Chair: Richard R. Schmidt | |
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| Co-Chair: Alain Krief | |
| Time | Speaker/ Title |
| 0900-0945 | Tom Simpson Synthesis of New and Extinct Natural Products with Fungal Megasyntases |
| 0945-1030 | Michael D. Threadgill Structure-Based Design and Development of Inhibitors of the Tankyrases |
| 1030-1115 | Bruno Figadere Recent Progress Towards Total Synthesis of Mycangimycin |

1115-1145 Tea Break

1145-1315 Concurrent Invited Lectures

| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title |
|-----------|---|--|---|
| 1145-1215 | Shazia Anjum Recent Trends and Scope of Metal Catalysis and Biocatalysis in Green Chemistry | Hai-bing Liao Anti-neuroinflammatory Compounds from Ethnic Medicinal Plant of Genus <i>Tinospora</i> in Guangxi Province of China | Nicolas Baldovini Analytical Studies of Fragrant Natural Raw Materials: Toward the Characterization of their Odor Active Constituents |
| 1215-1245 | Aamer Saeed Total Synthesis of GABAA Receptor Modulator rac-4-methoxy-7-phenyl-7,8-dihydro-[1,3]dioxolo[4,5-g]isochromen-5-one, A Dihydroisocoumarin from <i>Haloxylon scoparium</i> | Tahir Mehmood Khan An Observational Longitudinal Study Investigating the Effectiveness of 75 mg Pregabalin Post-Hemodialysis among Uremic Pruritus Patients | Zaheer-ul-Haq Recent Advances and Application of Computational Chemistry Approaches for Drug Discovery |
| 1245-1315 | Ibrahim Jantan Immunosuppressive and Anti-inflammatory Activities of Natural α,β -Unsaturated Carbonyl-based Compounds on the Immune Cells of the Innate and Adaptive Immune Systems | G. D. A. Priyantha Performance and Economic Returns of Cultivating Reed Plants (<i>Cyperus corymbosus</i>) in Paddy Fields of Wet Zone for Traditional Craft Weaving Industry in Sri Lanka | Atia-tul-Wahab Nuclear Magnetic Resonance Spectroscopy for Drug Leads and Drug Target Discovery |

1315-1400 Lunch / Prayer Break

1400-1530 Concurrent Invited Lectures

| Session-A Natural Product Isolation and Characterization (L.E.J. Hall A) Chair: Viqar Uddin Ahmed Co-Chair: M. Shaiq Ali | | Session-B Bioassay Screening, Biotechnology, Pharmacology and Others (L.E.J. Hall B) Chair: Aris Lacis Co-Chair: Ikram A. Burney | | Session-C Analytical Chemistry (L.E.J. Hall C) Chair: Tufail H. Sherazi Co-Chair: Syed Ghulam Musharraf | |
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| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title |
| 1400-1430 | Lalith Jayasinghe Endophytic Fungi from Medicinal Plants: A Promising Source of Bioactive Natural Products | Darakhshan Jabeen Haleem Neurochemistry of Pain and Addiction with Morphine | P. Panichayupakaranant Green Extraction and Standardization Methods for Development of Herbal Preparations | | |
| 1430-1500 | Hesham R. El-Seedi Magic of Natural Secondary Metabolism, and the Un-expected Results! | Wang Qiong Protective Effect of Dammarane Sapogenins Against Cognitive Dysfunction Under Simulated Microgravity in Rats | M. Jamaluddin Ahmed A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Lithium at Pico-trace Levels in Some Real, Pharmaceutical Formulations, Biological Fluids and Food Samples Using 5,7-Dibromo-8-hydroxyquinoline | | |
| 1500-1530 | Zhari Ismail Halal Issues in Natural Products | Yang Yujie The Depressive-like Behaviours Induced by Simulated Weightlessness in Rats | Vinitha M. Thadhani Title to be announced | | |

1530-1630 Concurrent Session Lectures

| Session-A Natural Product Isolation and Characterization (L.E.J. Hall A) Chair: Shaden Khalifa Co-Chair: Ibrahim Jantan | | Session-B Medicinal and Synthetic Chemistry (L.E.J. Hall B) Chair: Jamia Azdina Jamal Co-Chair: Farzana Shaheen | | Session-C Analytical Chemistry and Others (L.E.J. Hall C) Chair: M. Iqbal Bhangar Co-Chair: Nicolas Baldovini | |
|--|---|--|---|--|-----------------------|
| Time | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title | Speaker/ Title |
| 1530-1550 | Rami Arafah Challenges and Opportunities Facing Medicinal Plant Research and Utilization in Palestine | Haroon M. Haniffa Synthesis and <i>In Vitro</i> Tyrosinase Activities of Sulphamethazine Derivatives | Yan Wang Liquid Chromatography-Mass Spectroscopy-based Urinary Metabolites Study on a Rat Model of Simulated Microgravity-induced Depression and Effects of <i>Hemerocallis citrina</i> | | |
| 1550-1610 | Sajan L. Shyaula Alkaloids with Poisonous and Antidote Properties from <i>Aconitum</i> Species | Abdul Hameed Semi(Thio)carbazones: Synthetic Approaches | Ghulam Mustafa Novel Fouling Resistant grafted Membranes for Efficient Separation and Purification Applications | | |
| 1610-1630 | Manzoor Ahmad Norditerpenoid Alkaloids from <i>Delphinium uncinatum</i> as Cholinesterase Inhibitors | Farooq Ahmad Khan Modifying Muramyl Dipeptide for Improved Pharmacological Profile | B. M. Kudaibergenova Polymer Gels for Carriers of Medicinal Substances | | |

1630-1730 Poster Session and Tea

THURSDAY, NOVEMBER 8, 2018

0900-1115 Plenary Lectures (Prof. Salimuzzaman Siddiqui Auditorium)

| Chair: | Michael D. Threadgill |
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| Co-Chair: | Uli Kazmaier |
| Time | Speaker/ Title |
| 0900-0945 | M. Iqbal Choudhary Herbal Medicine for Health Care in the 21 st Century |
| 0945-1030 | Alain Krief Concise Semi-industrial Synthesis of Selenomethionine-A Bio-active Amino acid from Plants |
| 1030-1115 | Young Ho Kim Discovery of Bioactive Natural Compounds from <i>Araliaceae</i> Plants |

1115-1145 Tea Break

1145-1310 Concurrent Plenary cum Keynote Lectures (Prof. Salimuzzaman Siddiqui Auditorium)

| Chair : | Young Ho Kim |
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| Co-Chair: | Jae Youl Cho |
| Time | Speaker/ Title |
| 1145-1230 | Uli Kazmaier (Plenary Lecture) Total Synthesis of Marine Natural Products |
| 1230-1310 | Bilge Sener Evaluation of Herbal Medicines for Global Health Care |

1310-1400 Lunch / Prayer Break

1400-1600 Concurrent Session Lectures

| <u>Session-A</u> | <u>Session-B</u> | <u>Session-C</u> |
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| Natural Product Isolation and Characterization and Others (L.E.J. Hall A) Chair: Bilge Sener Co-Chair: Amr Mohamed Nassar | Medicinal and Synthetic Chemistry (L.E.J. Hall B) Chair: Shulin Zhao Co-Chair: M. Raza Shah | Bioassay Screening, Biotechnology, Pharmacology (L.E.J. Hall C) Chair: Bina S. Siddiqui Co-Chair: S. Abid Ali |
| Time | Speaker/ Title | Speaker/ Title |
| 1400-1420 | E. A. Garayev Biological Active Compounds of <i>Stachys annua</i> L. from Azerbaijan Flora | Mujeeb-ur-Rehman Nanoparticles from Dexamethasone Prodrugs for Passive Targeting in the Treatment of Inflammatory Diseases (Rheumatoid Arthritis) |
| 1420-1440 | Nargis Jamila A New Triterpene from <i>Garcinia hombroiana</i> | Muhammad Kamran Azeem Nematicidal Activity of 'Major Royal Jelly Protein'-Containing Glycoproteins from <i>Acacia</i> Honey |
| | Maria Aqeel Khan <i>In vitro</i> α -Glucosidase Inhibition by Non-sugar Harmine Analogues | Irfan Khan Tissue Engineering Approaches for Osteogenic Differentiation of Mesenchymal Stem Cells and the |

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| | | | Formation of 3D Tube-like Structures by Endothelial Cells |
| 1440-1500 | Uzma Salar Solid-state NMR Assisted Structural and Dynamics Study of Membrane Lipids in the Presence of Artificial Water Channels (I-Quartets) | Kamala K.Badalova Determination of Aluminium in some Natural Biological Objects | Munazza R Mirza Novel Metal Chelate Affinity Chromatography for Phosphopeptide Enrichment by using Trivalent Lanthanide Ions |
| 1500-1520 | --- | Shahid Aziz An Efficient Synthesis and Biological Evaluation of Topopyrone C Derivative, A Potent Anti-tumor Natural Product | --- |

1530-1630 Closing Ceremony

1630-1700 Tea