Day 1        July 23, 2018
Conference Hall: Birch Room

09:20-09:45 Registrations
09:45-10:00 Opening Ceremony

Keynote Forum
10:00-10:40 Title: Nitric oxide and heart disease: New discoveries and innovations in diagnostics and therapeutics
Nathan S Bryan, Baylor College of Medicine, USA

Group Photo

Networking & Refreshment Break 10:40-11:00 @ Red Cedar Foyer

11:00-11:40 Title: Molecular mechanism of Alzheimer’s disease
Zoya Leonenko, University of Waterloo, Canada
11:40-12:20 Title: Targeted drug delivery and release enabled by nanobiotechnology
Shyh-Dar Li, University of British Columbia, Canada
12:20-13:00 Title: Bacteriophage display of peptides for functional degradomics and other applications
Navneet Sharma, University of Calgary, Canada

Panel Discussion
Lunch Break 13:00-14:00 @ Red Cedar Foyer

Sessions: Genetic Engineering | Algal Biotechnology | Agricultural and Environment Biotechnology | CRISPR | Biomass and Bioenergy | Biomaterials
Session Chair: Nathan S Bryan, Baylor College of Medicine, USA
Session Co-chair: Navneet Sharma, University of Calgary, Canada

Session Introduction
14:00-14:25 Title: Characterizing constitutive promoters in yeast
Sabrina Schulze, University of Potsdam, Germany
14:25-14:50 Title: Bioethics and arguments for and against the human consumption of genetically modified foods in the scientific literature
Rosa Martha Desentis, Universidad Panamericana, Mexico
14:50-15:15 Title: Development of an integrated method for utilizing seaweed and seaweed waste to grow fungal marine biomass for bioproducts
Catalina Landeta Salgado, University of Chile, Chile
15:15-15:40 Title: Use of combined strategy of light intensities and wavelength to enhance the biomass and lipids production on the microalga Acutodesmus obliquus
Edisson Tello Camacho, Universidad de La Sabana, Colombia

Panel Discussion
Networking & Refreshment Break 15:40-16:00 @ Red Cedar Foyer

Title: The use of hairy roots for validation of CRISPR/Cas plasmid constructs and genome functional analysis in composite plants
Bekele Abebie, The Volcani Center, Israel
16:25-16:50 Title: Targeting therapy of hepatocarcinoma by a peptide directed doxorubicin/miRNA liposome
Yingchun Hou, Shaanxi Normal University, China

Video Presentation

Title: Detection of rotavirus genotypes with conventional PCR in a group of Iraqi children with acute viral gastroenteritis
Hiba Sabah Jasim, University of Baghdad, Iraq

Panel Discussion

Day 2        July 24, 2018
Conference Hall: Birch Room

Keynote Forum
09:20-10:00 Title: Construction of biocatalytic micro-reactors with the bacterial ghost platform technology
Werner Lubitz, BIRD-C GmbH, Austria
10:00-10:40 Title: Thermostable enzymes involved in alcohol fermentation at high temperatures
Kesen Ma, University of Waterloo, Canada

Panel Discussion
Networking & Refreshment Break 10:40-11:00 @ Red Cedar Foyer

11:00-11:40 Title: Electronic water can reduce oxidative stress in cancer and diabetes patients for three weeks drinking
Masahiro Onuma, Trisguide ltd, Japan

11:40-12:20 Title: Nanoscale organization of polymer-nanoparticle assemblies: from biological nanopores to “smart” polymers
Anton Zilman, University of Toronto, Canada

12:20-13:00 Title: Rapid targeting essential enzymes of viruses with biomedical engineering against the pandemic
Sheng-Xiang Lin, Laval University, Canada

Panel Discussion
Lunch Break 13:00-14:00 @ Red Cedar Foyer

Poster Presentations 14:00-15:00
Poster Judges: Werner Lubitz, BIRD-C GmbH, Austria
Kesen Ma, University of Waterloo, Canada

AB 01
Title: Genome analysis of bio-control fungus *Trichoderma harzianum* and the biosynthesis of peptaibols alamethicin
Jian Ling, Chinese Academy of Agricultural Sciences, China

AB 02
Title: Hydrolysis of lignocellulose and micro cellulose with novel ulfobetaine–tungstophosphoric acid catalyst
An-Ya Lo, National Chin-Yi University of Technology, Taiwan

AB 03
Title: Effect of polystyrene surfaces and altered polylactic acid surface chemistries on fibrinogen orientation and endothelialization and its application for coronary stents
Nupur Dave, Dulles High School, USA

AB 04
Title: Treatment with low-temperature atmospheric pressure plasma enhances cutaneous delivery of epidermal growth factor by regulating e-cadherin-mediated cell junctions
Kim Gyoo Cheon, Pusan National University, Republic of Korea

AB 05
Title: Expression analysis of the translocator protein 18 kDa (Tspo) mRNA in various human normal and cancer tissues
Zodwa Dlamini, Mangosuthu University of Technology, South Africa

AB 06
Title: In vitro propagation response of *Rosmarinus officinalis* L. to biotic and abiotic elicitors on phenolic content and photosynthetic pigments
Aisha Abdullah Alayaafi, University of Jeddah, Saudi Arabia

AB 07
Title: Pro-apoptotic effects of parthenolide on MDA-MB-468 human breast cancer cells
Reyhane Hoshyar, Birjand University of Medical Sciences, Iran

AB 08
Title: The anti-cancer properties of crocin and epirubicin on chemosensitive cervical cancer cells
Reyhane Hoshyar, Birjand University of Medical Sciences, Iran

AB 09
Title: Association mapping for morphological traits under saline stress in wheat
Harpreet Singh, Maharishi Markandeshwar University, India

AB 10
Title: In vitro study of anti-metastatic effect of crocetin on triple negative breast cancer cells
Laleh Arzi, University of Tehran, Iran

AB 11
Title: Optimization of single cell protein bioproduction by marine fungi using seaweed biomass
Catalina landeta salgado, University of Chile, Chile

Panel Discussion
Networking 15:00-15:30

Refreshment Break 15:30-15:50 @ Red Cedar Foyer

Award & Closing Ceremony