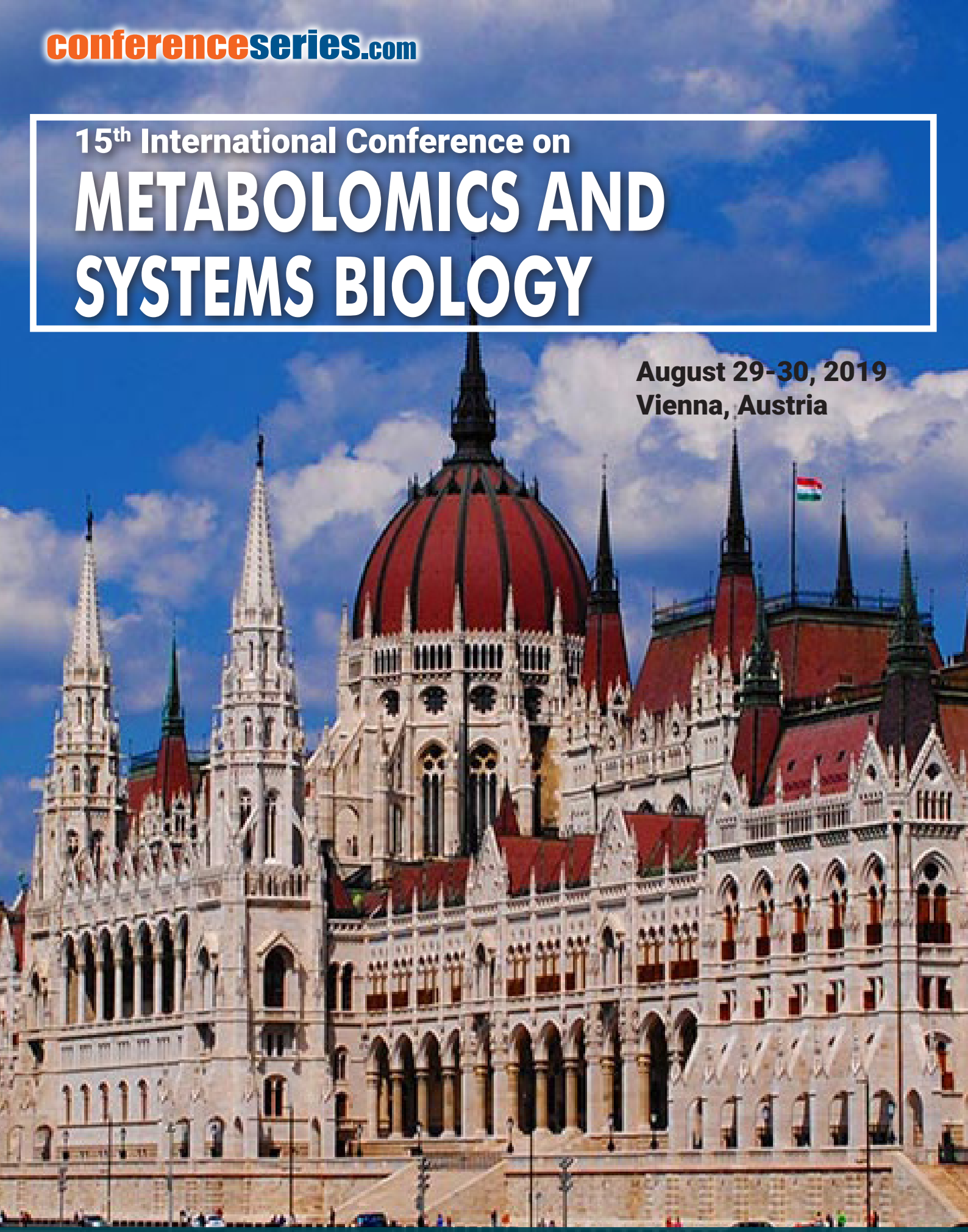
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15th International Conference on

METABOLOMICS AND SYSTEMS BIOLOGY

August 29-30, 2019
Vienna, Austria



SCIENTIFIC PROGRAM

DAY 1
Thursday, 29th August

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10	MEETING HALL 01	MEETING HALL 02
	Talks On:	**Talks On:**
	Metabolomics	Metabolic Modelling and Synthetic Biology
	Systems Biology	Computational Methodologies
	Metabolomics in Systems Biology	Plant and Environmental Metabolomics

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00	MEETING HALL 01	MEETING HALL 02
	Talks On:	**Talks On:**
	Pharmaco-metabolomics	Metabolomics Approaches
	NMR-based metabolomics	Analytical techniques in Metabolomics
	Mass spectroscopy (MS) based metabolomics	Metabolomics Applications

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Metabolomics and System Biology	Workshop

DAY 2
Friday, 30th August

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On:	**Talks On:**
Metabolomics in the field of Oncology / Cancer Metabolomics	Metabolomics in Drug Discovery
Metabolomics in Precision Medicine / Personalised medicine	Metabolomics in Detection of Chemotoxicity
Metabolomics in Discovering Biomarkers	Metabolomics in Nutrition Research

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On:	**Talks On:**
Metabolomics in Pharmaceutics	Metabolomics in Metabolic Engineering
Metabolomic in the field of Paediatric Medicine	Transcriptomics and Proteomics
Metabolomics in Various Diseases	Lipidomics

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Metabolomics and System Biology	Workshop

Awards & Closing Ceremony

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15th International Conference on Metabolomics and Systems Biology

AUGUST 29-30, 2019 VIENNA, AUSTRIA

AGENDA

TITLE: SENSOR-BASED CONTINUOUS GLUCOSE MONITORING RESULTS AND ITS IMPACT ON RISK PROBABILITY OF CARDIOVASCULAR DISEASE AND STROKE USING WAVE AND ENERGY THEORIES (GH-METHOD: MATH-PHYSICAL MEDICINE)

Gerald C. Hsu
Medical Research Scientist
USA

BIOGRAPHY: The author received an honorable PhD in mathematics and majored in engineering at MIT. He attended different universities over 17 years and studied seven academic disciplines. He has spent 20,000 hours in T2D research. First, he studied six metabolic diseases and food nutrition during 2010 to 2013, then conducted his own diabetes research during 2014 to 2018. His approach is "quantitative medicine" based on mathematics, physics, optical and electronics physics, engineering modeling, signal processing, computer science, big data analytics, statistics, machine learning, and artificial intelligence. His main focus is on preventive medicine using prediction tools.

TITLE: NUMERICAL SIMULATION OF TUMOR GROWTH-REPRODUCTION OF GOMPERTZ'S MODEL

Katsuya Nagayama
Kyushu Institute of Technology
Japan

BIOGRAPHY:
Katsuya Nagayama has his expertise in numerical simulation using particle model. The model was applied to express phenomena such as tumor growth, hair formation, skin turnover, alveolar bone regeneration and liver cell proliferation.

TITLE: ELECTRONIC WATER CAN REDUCE OXIDATIVE STRESS IN CANCER AND DIABETES PATIENTS FOR 3 WEEKS DRINKING.

Masahiro Onuma
Trisguide ltd
Japan

BIOGRAPHY:
Masahiro Onuma has expertise in oxidative disease prevention to use non-medical product based on GSK's experience of Allopurinol which is the strongest anti-oxidant efficacy in this world. He creates new indication of Allopurinol for stomatitis induced by cancer treatment which was approved by the Japanese Cancer treatment committee to propose new mechanism of Allopurinol for anti-oxidant. And now, there are so many new research papers of Allopurinol in the world.

SPEAKER SLOTS AVAILABLE

TITLE: BIOCONTROL OF SOME FUNGAL PATHOGENS USING PURIFIED AND CHARACTERIZED BACTERIAL CHITINASE

Afraa M. Baghdadi
Jeddah University
Saudi Arabia

BIOGRAPHY:

Dr. Afra Mohammed Abdelkader Abdel Wahab Baghdadi completed her PhD at Jeddah University in the Department of Biology. She did her Specialization in Microbiology.

TITLE: MULTIPLE 'OMICS'-ANALYSIS REVEALS THE ROLE OF PROSTAGLANDIN E2 IN HIRSCHSPRUNG'S DISEASE

Yankai Xia
Nanjing Medical University
China

BIOGRAPHY:

Prof. Xia is the Dean of the School of Public Health, Nanjing Medical University, Vice Director of Center for Global Health and the PI of State Key Laboratory of Reproductive Medicine and Key Laboratory of Modern Toxicology of the Ministry of Education. His current research interests are Systems Biology and Environmental Health. He has been using high-throughput techniques to profile human environmental exposure and biological responses to exogenous chemicals. Prof. Xia has presided over more than ten national and ministerial projects, including the State Key Program of National Natural Science Foundation of China and the National Outstanding Youth Science Foundation.

TITLE: EXOGENOUS GLUTAMATE PLUS ANTIBIOTICS KILLS MULTIDRUG-RESISTANT BACTERIA THROUGH A NOVEL PATHWAY THAT CONTROLS THE TCA CYCLE

Xuanxian Peng
Sun Yat-sen University
China

BIOGRAPHY:

Xuanxian Peng is a Professor, School of Life Sciences, Sun Yat-Sen University, China. He received his Ph.D. from Xiamen University, China and studied at McGill University, Canada as a postdoctoral fellow. Professor Peng was the first Dean of School of Life Sciences, Xiamen University, China from 1999 to 2003. He was a member of the fifth Chinese Education Ministry for Sciences and Technology and vice chairmen of Chinese Society for Marine Biochemistry and Molecular Biology. His research focuses on functional metabolomics for antibiotic resistance, which have recently been published in Cell Metabolism and PNAS

SPEAKER SLOTS AVAILABLE

TITLE: ALANINE EXERTS IMMUNOMODULATORY FUNCTIONS BY PROMOTING PHAGOCYTOSIS BUT LIMITING TISSUE INJURY

Bo Peng
Sun Yat-sen University
China

BIOGRAPHY:

Bo Peng has his expertise in metabolic regulation of antibiotic resistance. His research focuses on the elucidation of the metabolic features antibiotic-resistant bacteria He proposed that antibiotic-resistant bacteria have their metabolomes, naming antibiotic-resistance metabolome (ARM). The crucial biomarkers identified from ARM could reverts the ARM to antibiotic-sensitive metabolome (ASM), which increase the killing efficacy of antibiotics to multidrug-resistant bacteria, biofilm-forming bacteria and persisters (Peng et al, Cell metabolism, 2015). This strategy is also applicable to enhance host immune response to infections through metabolic regulations. Thus, this approach provides a novel strategy to fight against antibiotic-resistant bacteria in a greener but efficient way.

TITLE: NACL PROMOTES ANTIBIOTIC RESISTANCE BY REDUCING REDOX STATES IN VIBRIO ALGINOLYTICUS

Hui Li
Sun Yat-sen University
China

BIOGRAPHY:

Hui Li is a Professor, School of Life Sciences, Sun Yat-Sen University, China. She received her Ph.D. from Sichuan University, China and studied at Sun Yat-sen University,China as a postdoctoral fellow. Her research focuses on functional metabolomics for antibiotic resistance, which have recently been published in Cell Metabolism and PNAS.

TITLE: ALANINE ENHANCES AMINOGLYCOSIDES-INDUCED ROS PRODUCTION BY METABOLIC REGULATION

Ye Jinzhou
Sun Yat-sen University
China

BIOGRAPHY:

Ye Jinzhou is passionate about metabolic regulation of bacterial resistance. During his Ph.D. and postdoctoral periods, he devoted himself to studying the Metabolic regulation mechanism in the process from tolerant to resistant.

SPEAKER SLOTS AVAILABLE

TITLE: MALIC ACID BOOSTED TCA CYCLE ENHANCES SURVIVAL OF ZEBRAFISH TO VIBRIO ALGINOLYTICUS INFECTION

Manjun Yang
Sun Yat-sen University
China

BIOGRAPHY:

Manjun Yang is a lecturer of Tibet Vocational Technical College, and a PhD candidate of Sun Yat-sen University. His tutor is Prof. Xuanxian Peng who is a famous scientist of China. He has been committed to the research of bacterial antibiotic resistance. He is good at using metabolomic approaches based on GC-MS and UPLC-QToF MS platform to study drug resistance.

TITLE: PHENYLALANINE MODULATES INNATE IMMUNE 0F DANIO RERIO TO CLEAR CEFTAZIDIME RESISTANT V. ALGINOLYTICUS

Ming Jiang
Sun Yat-sen University
China

BIOGRAPHY:

Ming Jiang is studying for a doctor's degree at Sun Yat-sen University. His current research is focused on the metabolic mechanism of host resistance to drug-resistant bacterial infections

Title: THE INHIBITION EFFECTS OF FENOFIBRATE ON GASTRIC CANCER CELLS VIA INDUCING MITOCHONDRIAL DYSFUNCTIONS AND REVERSING CANCER CELL METABOLIC REPROGRAMMING DEPENDENT ON PPARA PATHWAY

Fuxiang Zhou
Wuhan University
China

BIOGRAPHY:

Prof. Fuxiang Zhou has completed his Ph.D. from Zhongnan Hospital of Wuhan University and postdoctoral studies from CAL Cancer Center, University of Nice, France. Dr. Zhou is now the director of Abdominal Tumor Radiation Oncology Department in Zhongnan Hospital of Wuhan University. He is also the director of Hubei Key Laboratory of Tumor Biological Behaviors & Hubei Cancer Clinical Study Center. Fuxiang Zhou is leading a number of clinical studies in the precise clinical research of cancer radiotherapy. Dr. Zhou has published 73 papers in reputed journals and the number of citations is 460. And he is also serving as an editorial board member of repute such as GeneTherapy and Oncotarget.

SPEAKER SLOTS AVAILABLE

TITLE: GH-METHOD: METHODOLOGY OF MATH-PHYSICAL MEDICINE

Gerald C. Hsu
Medical Research Scientist

BIOGRAPHY:

The author received an honorable PhD in mathematics and majored in engineering at MIT. He attended different universities over 17 years and studied seven academic disciplines. He has spent 20,000 hours in T2D research. First, he studied six metabolic diseases and food nutrition during 2010 to 2013, then conducted his own diabetes research during 2014 to 2018. His approach is "quantitative medicine" based on mathematics, physics, optical and electronics physics, engineering modeling, signal processing, computer science, big data analytics, statistics, machine learning, and artificial intelligence.

TITLE: EVOLUTION IN TIME OF TOTAL ENERGY AND MOLAR VOLUME OF ZNO WURTZITE PHASE UNDER DIFFERENT TEMPERATURES ANDPRESSURES, A MOLECULAR DYNAMICS PREDICTION

Y. Chergui
Badji Mokhtar University

BIOGRAPHY:

Yahia CHERGUI has completed his PhD from Badji Mokhtar University in Annaba, Algeria, he did his work of PhD in Cardiff University in UK.. His research field is Physics(condensed matter, simulation by molecular dynamics). He is a lecturer in Boumerdes University (Electrical & Electronics Engineering Institute) since 2012. He has published more than 7 papers in reputed journals and has been serving as a referee with condensed matter journal (IOP), Energy journal (Elsevier), and recently accepted to be a reviewer of American Journal of Modern Physics. He did all his PhD work in Cardiff University in UK.

TITLE: TITLE: METABOLOMICS OF METABOLIC ORIGINS

Thomas Steiner
Technical University Munich (TUM)

BIOGRAPHY:

The Eisenreich group has a long-standing expertise in metabolic pathway analysis in a variety of organisms (more than 200 original papers dealing with metabolism). The studies ranged from the discovery of new biosynthetic pathways in methanogens to the elucidation of numerous biosynthetic pathways of natural products. The group also pioneered the technique of isotopologue profiling to elucidate the central metabolism of many pathogenic bacteria under medicinally relevant conditions.

SPEAKER SLOTS AVAILABLE

TITLE: CORRELATION BETWEEN PRE AND POST TREATMENT EFFECT OF IMATINIB AND ANTI-OXIDANT STATUS IN CHRONIC MYELOID LEUKEMIA PATIENTS

Hafiz Muhammad Arsalan
Minhaj University

BIOGRAPHY:

Dr. Hafiz Muhammad Arsalan is doing Ph.D in Clinical Biochemistry from University of Central Punjab, Lahore Pakistan. He have national and international research publication. He have great command on biochemical and Clinical research and on different Biochemical, Clinical Techniques. At present he is working as Sr. Lecturer of Biochemistry in Allied Health Sciences department, Minhaj University Lahore.

TITLE: NANO-LIQUID CHROMATOGRAPHY COUPLED MALDI MS/MS BASED QUANTITATIVE CANCER METABOLOMICS

Swarnendu Bag
Scientist-C
Tata Medical Center

BIOGRAPHY:

Dr. Bag is an expert of Cancer Metabolomics & Proteomics domain. He was awarded PhD from School of Medical Science and Technology Department, Indian Institute of Technology, Kharagpur. After that he was appointed as an Assistant Professor at Department of Biotechnology, National Institute of Technology, Sikkim, India. At present Dr. Bag is working as Scientist-C at Tata Medical Center, Kolkata, a well-known Cancer research hospital in India. He has contributed significantly in proteomics and metabolomics research especially in pre-cancer and cancer biomarker discovery. Amongst of his important research contributions, establishment of new methodology for metabolite quantification; evaluation of novel altered metabolic pathway in oral cancer; elucidation of oral pre-cancer biomarker have received remarkable attention from various scientific communities.

TITLE: MOLECULAR INTERACTIONS OF POLY(METHYLMETHACRYLATE), POLY(VINYL ALCOHOL),POLY(ETHYLENE GLYCOL), CHITOSAN, CELLULOSE AND STARCH POLYMERS WITH IODINE

Jaleel Kareem Ahmed
Babylon University

BIOGRAPHY:

Jaleel Kareem Ahmed has expertise in evaluation in iron and steel industry. He has registered 3 patents in USA, UK and Iraq about using water in iron industry and wax for storage and transportation direct reduced iron (DRI) and using wax for carburizing of steel. In 2013, he was awarded Scientific Medal from Iraqi Government. He has been serving as a Reviewer of Journal of Advances in Polymer Technology, Thomson Reuters.

SPEAKER SLOTS AVAILABLE

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Glimpses of METABOLOMICS Conferences

















Vienna Attractions

