

Scientific Program

7th Asia Pacific

Biotech Congress

Beijing, China July 13-15, 2015

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OMICS International Conferences

5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA

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Email: bioasiapacific@omicsgroup.com, bioasiapacific@conferenceseries.com

Juniper Tree



09:00 - 09:25

Opening Ceremony

Keynote Forum

09:25-09:30 **Introduction**09:30-10:00 **Gaston Hui Bon Hoa**

National Institute of Health and Medical Research, France

10:00-10:30 **Fang Xie**

Imperial College of London, UK

Coffee break: 10:30-10:50 @ Foyer

Track 5: Biotechnology and Genetic engineering

Track 8: Cell, Micro and Molecular Biology

Session Introduction

Chair : Yong Soo Kim, University of Hawaii USA

Co-Chair : Nipunjot Kaur, Khalsa College, India

10:50-11:10 **Production of bioactive myostatin propeptide of various animal species in *E. coli*.**

Yong Soo Kim, University of Hawaii USA

11:10-11:30 **Control of protease activity in *S. pombe* using gene silencing approach**

Nipunjot Kaur Soni-Bains, Khalsa College, India

11:30-11:50 **The fabrication of DNA nanostructures and their applications in bionanotechnology**

Risheng Wang, Missouri University of Science and Technology, USA

11:50-12:10 **Title: "Molecular characterization of vitellogenin receptor from *Bombyx mori* and *Spodoptera litura*: As a tool for pest management"**

Muthukalingan Krishnan, Bharathidasan University, India

12:10-12:30 **Vectors based upon unique gene regulatory mechanisms**

Michihiko Kobayashi, University of Tsukuba, Japan

12:30-12:50 **The bioflavonoid kaempferol attenuates circulatory lipids in experimental diabetic rats**

Chandramohan Govindasamy, King Saud University, Saudi Arabia

Lunch Break 12:50-13:35 @ Easy Kitchen

Young Research Forum

13:35-13:50 **Analysis of 5' and 3' snoRNA termini maturation in *Saccharomyces cerevisiae***

Zaneta Matuszek, University of Warsaw, Poland

13:50-14:05 **Kinetics of biomass and hydrocarbon oils production of microalgae *Botryococcus braunii* in continuous culture**

Jian JIN, Universite de Nantes, France

14:05-14:10

Panel Discussion

Track 1: Food Biotechnology

Track 2: Biotechnology in Agriculture

Session Introduction

Chair : D. H. Tejavathi, Bangalore University, India

Co-Chair : H. R. Raveesha, Bangalore University, India

**Workshop on
Novel in vitro techniques coupled with Mycorrhization for sustainable cultivation
D.H.Tejavathi, Bangalore University, India**

- 14:10-14:30 **Utilization of AM fungal association for sustainable cultivation of mulberry (*Morus indica* L.)**
D.H. Tejavathi, Bangalore University, India
- 14:30-14:50 **Influence of AM fungi on accumulation of withaferin-A in micropropagated *Withania somnifera* (L.) Dunal**
H.R. Raveesha, Bangalore University, India
- 14:50-15:10 **Effect of Arbuscular mycorrhizal symbiosis on biosynthesis of active ingredients in selected medicinal plants**
D.R. Jayashree, M.S.Ramaiah College of Arts, Science and Commerce, India

Coffee Break 15:10-15:30 @ Foyer

- 15:30-15:50 **In vitro micropropagation of *Calamus huegelianus* an endangered rattan**
R.V. Madhusudhan, Bangalore University, India
- 15:50-16:10 **Efficacy of AM fungi in the establishment of micropropagated banana, *Musa paradisiaca* L. cv. Dwarf cavendish**
R.Sowmya, Yuvaraja's College, Mysore University, India
- 16:10-16:30 **Rapid clonal multiplication and conservation of *Lavandula angustifolia* - An aromatic and medicinal plant, using apical buds and root by in vitro techniques**
D. Leelavathi, MES Degree College, India
- 16:30-16:50 **AFLP marker for estimating relatedness and variations among the normal, tissue cultured and AMF treated plants of *Andrographis paniculata* L.**
P. Anitha, Bangalore University, India
- 16:50-17:10 **Improvement of phytase thermostability and catalytic efficiency by site-directed mutagenesis for industrial application**
Ardeshir Hesampour, Islamic Azad University, Iran
- 17:10-17:30 **Cloning and expression of *Saccharomyces cerevisiae* Suc2 gene in yeast platform and characterization of recombinant enzyme biochemical properties**
Arash Hesampour, Islamic Azad University, Iran

Young Research Forum

- 17:30-17:45 **Efficacy of some plant extracts as storage protectants against *Callosobruchus maculatus***
Mojisola Ojebode, University of Ibadan, Ibadan, Nigeria

17:45-17:50 **Panel Discussion**

Day 2 July 14, 2015

08:30-09:00 Registrations

Juniper Tree

Track 3: Pharmaceutical Biotechnology

Track 10: Marine Biotechnology

Keynote Forum

- 09:00-09:25 **Liming Chen**
Huazhong University of Science and Technology, China
- 09:25-09:50 **Tsung Chain Chang**
National Cheng Kung University, Taiwan

Chair : Liming Chen, Huazhong University of Science and Technology, China

Session Introduction

- 09:50-10:10 **PyMine - A PyMol plugin to integrate and visualize chemical and biological data for drug discovery**
Zhijun Li, University of the Sciences, Philadelphia, USA
- 10:10-10:30 **QSAR Methodologies for Peptide Design**
Raghuvir Pissurlenkar, Goa College of Pharmacy, India

Coffee Break 10:30-10:50 @ Foyer

- 10:50-11:10 **The choice of rhamnnetin, sakuranetin and genkwanin as nutraceutical, pharmaceutical and cosmeceutical agents**
Niranjan Koirala, Sun Moon University, Republic of Korea
- 11:10-11:30 **Purification and Biophysical characterization of 37 kDa serine protease zymogen from silkworm, *Bombyx mori***
Mani Kannan, Bharathidasan University, India
- 11:30-11:50 **Analysis of the phytochemical constituents of *Mimosa pudica* and determination of their antimicrobial activity**
Arunachalam Chinnathambi, King Saud University, Kingdom of Saudi Arabia

11:50-11:55 **Panel Discussion**

11:55-13:15 **Poster Presentation**

Lunch Break 13:15-14:00 @ Easy Kitchen

Track 7: Biotechnology in Health Care

Track 9: Nanoscience and Technology

Chair : Risheng Wang, Missouri University of Science and Technology, USA

Session Introduction

- 14:00-14:20 **Neuroprotective effects of *Erinacine A* from *Hericium erinaceum* submerged culture mycelium**
Chin-Chu Chen, Grape King Bio Ltd, Taiwan
- 14:20-14:40 **Biodiesel causes Oxidative Damage in tissues of *Clarias gariepinus***
Olalekan Adeyemi, Federal University of Petroleum Resources Effurun, Nigeria
- 14:40-15:00 **Extraction of Edible Leaf Protein Concentrate from Water Hyacinth**
Oyeyemi Adeyemi, Federal University of Petroleum Resources Effurun, Nigeria
- 15:00-15:20 **A Novel Isolation Method of Cellulose Nanocrystals from Microcrystalline Cellulose**
Joon-pyo Jeun, Korea Atomic Energy Research Institute, Republic of Korea
- 15:20-15:40 **Nanomaterials Enhances Fungal Biomass and Sustainable Agricultural Crop Productivity**
Ram Prasad, Johns Hopkins University, USA

Coffee Break 15:40-16:00 @ Foyer

- 16:00-16:20 **Agricultural Throwaway to Biofuel Using Enzyme Cocktail**
Pragati Awasthi, Amity University, India
- 16:20-16:40 **Physicochemical properties of sausage formulated with transglutaminase catalyzed arachin and conarachin peanut protein fractions**
Qiang wang, Chinese Academy of Agricultural Sciences, China

Young Research Forum

- 16:40-16:55 **Cyanobacteria - New Materials For Wastewater Treatment**
Inga Zinicovscaia, The Institute of Chemistry of the Academy of Sciences of Moldova, Republic of Moldova

16:55-17:00 **Panel Discussion**

Day 3

July 15, 2015

Track 6: Industrial Biotechnology

Track 4: Environmental Biotechnology

Track 11: Bioinformatics and Biosensors

Track 12: Bioequipment

Chair: Zhijun Li, University of the Sciences, Philadelphia, USA

Session Introduction

- 09:00-09:20 **Characterization of crude Xylanase produced by edible mushroom *Pleurotus eryngii***
Altat Simiar, Donghua University, China
- 09:20-09:40 **How can bench-top lab automation systems speed up the development of bioprocesses – Current solutions and future prospects**
Felix Lenk, Dresden University of Technology, Germany

09:40-10:00 **Nutritional practices and taboos among pregnant women attending antenatal care at general hospital in kano, northwest nigeria**

Emmanuel Ugwa, Zoputa Clinic and Maternity LTD, Nigeria

10:00-10:20 **Vitamins A and E deficiencies among pregnant women attending antenatal care at general hospital Dawakin Kudu, North-West Nigeria**

Ngozi Duru, Zoputa Clinic and Maternity LTD, Nigeria

Coffee Break 10:20-10:40 @ Foyer

10:40-11:00 **Flow-through bioreactor for radioactive waste purification**

Alexey Safonov, Russian Academy of Sciences, Russia

11:00-11:20 **Development of highly sensitive electrochemical genosensor based on multiwalled carbon nanotubes-chitosan-bismuth and lead sulfide nanoparticles for the detection of pathogenic Aeromonas**

Antonio Maximiano Fernandes, Jiangnan University, China

11:20-11:40 **Speciation of chromium and vanadium in medicinal plants in the vicinity of ferrochrome and vanadium smelters**

Ademola Adefemi, Tshwane University of Technology, South Africa

11:40-11:45 **Panel Discussion**

Awards Ceremony & Closing Remarks (11:45-12:00)

Session Adjournment

Poster Presentations

APB001 **Transformations of nitrogen compounds in granular sludge batch reactors treating municipal wastewater containing Bisphenol A (BPA)**

Cydzik-Kwiatkowska Agnieszka, University of Warmia and Mazury in Olsztyn, Poland

APB002 **Microfiltration and ultrafiltration of the effluent from granular sequencing batch reactors treating municipal wastewater containing bisphenol A (BPA)**

Magdalena Zielińska, University of Warmia and Mazury in Olsztyn, Poland

APB003 **COD removal and granular biomass characteristics in sequencing batch reactors treating municipal wastewater containing bisphenol A (BPA)**

Katarzyna Bernat, University of Warmia and Mazury in Olsztyn, Poland

APB004 **Feather degradation bacteria for agricultural applications**

Lo Chi-Chu, Taiwan Agricultural Chemicals and Toxic Substances Research Institute, Taiwan

APB005 **Association between a CBG nonsynonymous SNP and meat quality traits of Berkshire pig**

Chul Wook Kim, Gyeongnam National University of Science & Technology, Korea

APB006 **Production of anticancer hispidin in *Phellinus linteus* mycelium**

I Chen Li, Grape King Bio Ltd, Taiwan

APB007 ***Trametes versicolor* in neuronal health**

Yen Po Chen, Grape King Bio Ltd, Taiwan

APB008 ***In vitro* PIK3C3/VPS34 complex protein assay for autophagy-specific inhibitor screening**

Jong-Hyuk, Kyung Hee University, Korea

APB009 **Novel Genes Fam134c and C3orf10 Differentially Involved in Axonal and Dendritic Growth of Rat Hippocampal Neurons under Different Rigidity of Matrix**

Huang A Min, National Cheng Kung University, Taiwan

APB010 **The evaluation of antibacterial activity of TiN sputter coating and plasma nitriding on titanium implant**

Hyun-Pil Lim, Chonnam National University School of Dentistry, Korea

APB011 **Physiological investigations of diazotrophic cyanobacteria cultivated in chemostat photobioreactors : Improvement of biomass productivity**

Wenli Kang, Nantes University, France

APB012 **A medium-throughput screening (MTS) strategy for microalgae and cyanobacteria characterization**

Catherine Dupre, Nantes University, France

APB013 **A novel phosphatidylinositol-4,5-bisphosphates binding site on the N-terminal region of the Melastatin receptor**

Michaela Jirku, Institute of Physiology of the Czech Academy of Sciences, Czech Republic

- APB014** **Developed starter for Bulgarian white brined cheese leads to increased content of bioactive peptides**
Zhechko Dimitrov, LB-Bulgaricum Plc., R&D Center, Bulgaria
- APB015** **Evidence for association between a polymorphism in the Adenosine A2A receptor gene and attention deficit hyperactivity disorder**
Xiaohui Xu, King's College London, UK
- APB016** **Potential Application of Porphyrin Derivatives as Photosensitizing Agents in Cancer Therapy**
Abdul Hai, Northern Border University, Saudi Arabia
- APB017** **Molecular Docking to Test for Efficacy of Porphyrin Compounds in Alzheimer's Disease**
Nadeem Kizilbash, Northern Border University, Saudi Arabia

Award Ceremony