

343rd OMICS International Conference

Scientific Program

8th Euro

BIOTECHNOLOGY CONGRESS

August 18-20, 2015 Frankfurt, Germany

OMICS International Conferences

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Scientific Program

Day 1

August 18, 2015

08:30-09:30 Registrations

Room 7



09:30-10:00

Opening Ceremony

Keynote Forum

- 10:00- 10:10 **Introduction**
10:10-10:40 **Manfred T Reetz**
Philipps-University, Germany
10:40-11:10 **W Tim Miller**
Echelon-Frontier Scientific Inc, USA

Coffee Break: 11:10-11:30

- 11:30-12:00 **Wilfried Schwab**
Technische Universität München, Germany

Track 1: Biotechnology in Healthcare

Track 2: Environmental Biotechnology

Session Chair: Wilfried Schwab, Technische Universität München, Germany

Session Co-Chair: Sushanta K. Mitra, York University, Canada

Session Introduction

- 12:00-12:25 **Synthetic mRNAs present a rapidly growing technology: Optimised tool for stem cell generation and for manipulating cellular phenotypes**
Guido krupp, AmpTec GmbH, Germany
12:25-12:50 **Biochemical studies on the effect of turmeric on breast cancer of rats**
Soha M Hamdy, Fayoum University, Egypt

Group Photo & Lunch Break: 12:50-13:50

- 13:50-14:15 **Biological activity of elicited *Echinacea purpurea* suspension cultures**
Hattem M Mekky, University of Alexandria, Egypt
14:15-14:40 **Rescuing apoptotic neurons from Alzheimer's disease using wheat germ agglutinin-conjugated and cardiolipin-conjugated liposomes with encapsulated nerve growth factor and curcumin**
Yung-Chih Kuo, National Chung Cheng University, Republic of China
14:40-15:05 **Extraction and purification of extracellular glucosyltransferase (GTFs) from *Streptococcus mutans* serotype C isolate (H5)**
Essam F A Al-Jumaily, Baghdad University, Iraq
15:05-15:30 **Genetic engineering of *deinococcus radiodurans* for uranium bioremediation from high radiation environment**
Shree Kumar Apte, Bhabha Atomic Research Centre, India

Coffee Break: 15:30-15:50

- 15:50-16:15 **Selection of an actinobacteria consortium for enhancing diazinon degradation**
Gabriela Briceno, Universidad de La Frontera, Chile
16:15-16:40 **Natural products of *Anthracophyllum discolor*: Ligninolytic enzymes and antifungal volatile compounds**
Heidi Schalchli, Universidad de La Frontera, Chile
16:40-17:05 **The influence of growth conditions (temperature and oxygen supply) on manganese(II) sorption by viable and autoclaved *Lactococcus lactis* var *lactis* NCIMB 6681**
Sandra Borkowska, Glasgow Caledonian University, UK

17:05-17:30 **Biosorption of magnesium in *Chlorella vulgaris* under different culture conditions**

Hela Ben Amor, LGPM Ecole Centrale sup^Ãlec Paris , France

17:30-17:55 **The role of the patient specific vascular geometry and blood flow dynamics for vascular treatments**

K. Banu Kse, Istanbul Medipol University, Turkey

Panel Discussion

Day 2 August 19, 2015

Room 7

Keynote Forum

10:00-10:30 **Aline Zimmer**
Merck Millipore, Germany

10:30-11:00 **Sushanta K. Mitra**
York University, Canada

Poster presentations & Coffee break: 11:00-11:45

Track 3: Industrial Aspects of Biotechnology

Track 12: Current Scenarios and other Allied Areas of Biotechnology

Track 11: Genetic Engineering and rDNA Technology

Track 9: Cell and Molecular Biology

Session Chairs: Krassimir Yankulov, University of Guelph, Canada

Session Co-Chairs: Aline Zimmer, Merck Millipore, Germany

Session Introduction

11:45-12:10 **Novel synthetic anti-microbial defensins through confrontational selection and screening of yeast libraries**
Krassimir Yankulov, University of Guelph, Canada

12:10-12:35 **Long acting recombinant glycoprotein hormones: From bench to clinics**
Fuad Fares, University of Haifa, Israel

12:35-13:00 **Immobilization and characterization of inulinase from *Ulocladium atrum* on nonwoven fabrics**
Tarek M Mohamed, Tanta University, Egypt

Lunch Break: 13:00-13:45

13:45-14:10 **Systems metabolic engineering of *Bacillus subtilis* for efficient N-acetylglucosamine production**
Long Liu, Jiangnan University, China

14:10-14:35 **Enhancing flavonoid production by systematically tuning the central metabolic pathways based on a CRISPR interference system in *Escherichia coli***
Jingwen Zhou, Jiangnan University, China

14:35-15:00 **One-step biosynthesis of α -keto acids by the L-amino acid deaminase: Biocatalyst construction and process optimization**
Guocheng Du, Jiangnan University, China

15:00-15:25 **Transient physiologic states: Friend or foe?**
Wieland Reichelt, Vienna University of Technology, Austria

15:25-15:50 **Surface activity of surfactin under extreme conditions (pH, temperature and ionic strength): A prospection for microbial enhanced oil recovery**
Cristiano Jos de Andrade, State University of Campinas, Brazil

Panel Discussion

Coffee Break: 15:50-16:05

Room 7

Track 6: Agriculture Biotechnology

Track 8: Food and Bio Process Biotechnology

Track 10: Nanobiotechnology

Track 5: Marine Biotechnology and Aquaculture

Session Chair: Fuad Fares, University of Haifa, Israel

Session Introduction

09:30-09:55 **Production of rosmarinic acid from *in-vitro* culture of Basil (*Ocimum basilicum* L.) and Lemon balm (*Melissa officinalis* L.)**

Raoufa A I Abdel Rahman, Universities and Research Center District, Egypt

09:55-10:20 **Standardization of clonal macropropagation protocol of *Dillenia pentagyna* roxb. An important and endangered medicinal tree species through stem branch cuttings**

S K Tiwari, State Forest Research Institute, India

10:20-10:45 **Activity and thermostability improvement of *Trametes versicolor* IBL-04 laccase by chitosan beads immobilization**

Muhammad Asgher, University of Agriculture, Pakistan

10:45-11:10 **Silencing of hormonal biosynthesis genes by double stranded RNA (dsRNA) impairs larval growth and development of cotton bollworm (*Helicoverpa armigera*)**

Anjali Jaiwal, University of Delhi South Campus, India

Coffee Break: 11:10-11:30

11:30-11:55 **Nanosystems formed by amphiphilic antimony(v) complexes incorporating amphotericin B for the treatment leishmaniasis**

Arshad Islam, Universidade Federal de Minas Gerais, Brazil

11:55-12:20 **Sulphated polysaccharides from seaweeds has potential to inhibit cell growth and cell cycle arrest of human cancer cells**

Eka Prasedya, Fukushima Medical University, Japan

12:20-12:45 **Gold Nanoparticles for biomedical applications**

Akbar Vaseghi, Islamic Azad University, Iran

12:45-13:10 **Preparation and characterization of alginate beads reinforced with silica nanoparticles for microbial cell culture**

Keyvan Nasirzadeh, Institute of Genetic Engineering and Biotechnology (NIGEB), Iran

Panel Discussion

Lunch Break: 13:10-14:10

Award Ceremony

