134th OMICS Group Conference

Scientific Program

4th World Congress on

Biotechnology

OMICS Group Conferences
Accelerating Scientific Discovery

September 23-25, 2013
DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, USA



Collaboration

European Biotechnology Network Association

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Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Email: *biotechnology2013@omicsgroup.us*

Day 1 September 23, 2013

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

Camellia

09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:25 **Ara Kanekanian**
Cardiff Metropolitan University, UK

10:25-10:50 **George Ivey**
Ivey International Co. Inc., Canada

Coffee Break 10:50-11:10 @ Oak

11:10-11:35 **Daniel M. Barry**
University of Venda, South Africa

Felicitation to OCM's and EB Members

Group Photo

Track 1: Biotechnology and Allied Areas
Track 2: Microbial and Biochemical Technology
Track 3: Bioremediation and Biodegradation

Session Chair: Ronnie W. Heiniger, North Carolina State University, USA

Session Co-Chair: Sreenivas Rao Ravella, Aberystwyth University,UK

Session Introduction

11:35-11:55 **B-cert: A training program for producers of bioengineered plants**
Ronnie W. Heiniger, North Carolina State University, USA

11:55-12:15 **Bioavailability of mercury in the floodplain soil of east fork popular creek, Oak Ridge, Tennessee**
Fengxiang Han, Jackson State University, USA

12:15-12:35 **Factors alleviating cadmium toxicity in white rot fungus**
Kuber Bhainsa, University of Cincinnati College of Medicine, USA

12:35-12:55 **Mathematical Modelling of Ni^{2+} biosorption by *Schizosaccharomyces pombe* using universal sigmoid approach**
Rumeysa Bukcu, Marmara University, Turkey

Lunch Break 12:55-13:40 @ Oak

13:40-14:00 **Taguchi Design of Experiments (DOE) for fermentations, pre-treatments and inhibitor studies**
Sreenivas Rao Ravella, Aberystwyth University, UK

14:00-14:20 **Yeast metabolic engineering or biodiversity: Understanding "flavor phenotypes" in traditional fermented beverages**
Francisco Carrau, University of Republic, Uruguay

14:20-14:40 **C-SLGE- Cloning of *Saccharomyces cerevisiae* lipase gene in *E.coli* Nissle 1917(probiotic)**
Gadangi Indira, Kakatiya University, India

14:40-15:00 **Biobased water treatment materials for industrial wastewaters**
Tiina Leiviska, University of Oulu, Finland

15:00-15:20 **Biological degradation of naphthalene: A new era**
Sharad Khandelwal, Institute of Life Sciences, Nasik- India

Coffee Break 15:20-15:40 @ Oak

15:40-16:00 **Effect of PGRs on organogenesis among clones of *Hippophae rhamonides* in *in vitro* culture**
Songhee Lee, Dongguk University, Korea

16:00-16:20 **Effect of oil on phytoremediation of PCB co-contamination in transformer oil using *Chromolaena odorata***
R. O. Anyasi, University of South Africa, South Africa

16:20-16:40 **Towards a grass biorefinery**
Joe Gallagher, Aberystwyth University, UK

Panel Discussion

17:50-18:50 Cocktails Sponsored by **Journal of Biotechnology & Biomaterials @ Oak**

Day 2 September 24, 2013

Camellia

Keynote Forum

10:00-10:25 **Ganapathy Sivakumar**
Arkansas State University, USA

Track 4: Petroleum and Environmental Biotechnology
Track 5: Genetic Engineering and Molecular Biology
Track 6: Clinical and Cellular Immunology
Track 7: Medical Biotechnology and Biomedical Engineering
Track 8: Tissue Science and Engineering

Session Chair: Xiangwu Zhang, North Carolina State University, USA

Session Co-Chair: Tiina Leiviska, University of Oulu, Finland

Session Introduction

10:25-10:45 **Advanced multi-functional nanofiber-textile materials for chemical and biological protection applications**
Xiangwu Zhang, North Carolina State University, USA

10:45-11:05 **The role of meta-topolins in micropropagation and secondary metabolite production of medicinal plants**
Stephen O. Amoo, University of KwaZulu-Natal, South Africa

Coffee Break 11:05-11:25 @ Oak

11:25-11:45 **Potential use of inexpensive green tealeaves for the bioremoval of hair dyes**
Abel E. Navarro, New York University, USA

11:45-12:05 **p16 in occular surface squamous neoplasia**
Sheetal Chauhan, AIIMS, India

12:05-12:25 **Biosynthesis and conjugation techniques towards the development of theranostic nano-photosensitizers**
Jayeeta Bhaumik, National Institute of Pharmaceutical Education and Research, India

12:25-12:45 **Genetic mutation and disordered protein structure**
Orkid Coskuner, University of Texas, USA

12:45-13:05 **Isolation of biosurfactant producing strains for enhanced bioavailability of hydrocarbon contaminants**
Amodu O.S, Cape Peninsula University of Technology, South Africa

Lunch Break 13:05-13:50 @ Oak

13:50-14:10 **Anoxic oxidation of arsenite linked to chemolithotrophic denitrification: the missing link in the biogeochemical arsenic cycle**
Wenjie Sun, University of Arizona, USA

14:10-14:30 **Generation of biogas from cow dung**
Onwuliri, F. C, University of Jos, Nigeria

14:30-14:50 **p16 in occular surface squamous neoplasia**
Sheetal Chauhan, All India Institute of Medical Sciences, India

14:50-15:10 **Biodegradation of free cyanide using bacterial species isolated from cyanide waste water**
V. A. Jackson, Cape Peninsula University of Technology, South Africa

Coffee Break 15:10-15:30 @ Oak

15:30-16:30 **Poster Presentations**

17:00-18:00 Cocktails Sponsored by **Journal of Bioremediation & Biodegradation @ Oak**

Day 3 September 25, 2013

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Track 9: Cell Science and Stem Cell Therapy
Track 10: Pharmaceutical Sciences
Track 11: Food Processing, Functional Foods and Health
Track 12: Omics Technologies

Session Chair: Jimmy T. Efird, Brody School of Medicine, USA

Session Co-Chair: Ara Kanekanian, Cardiff Metropolitan University, UK

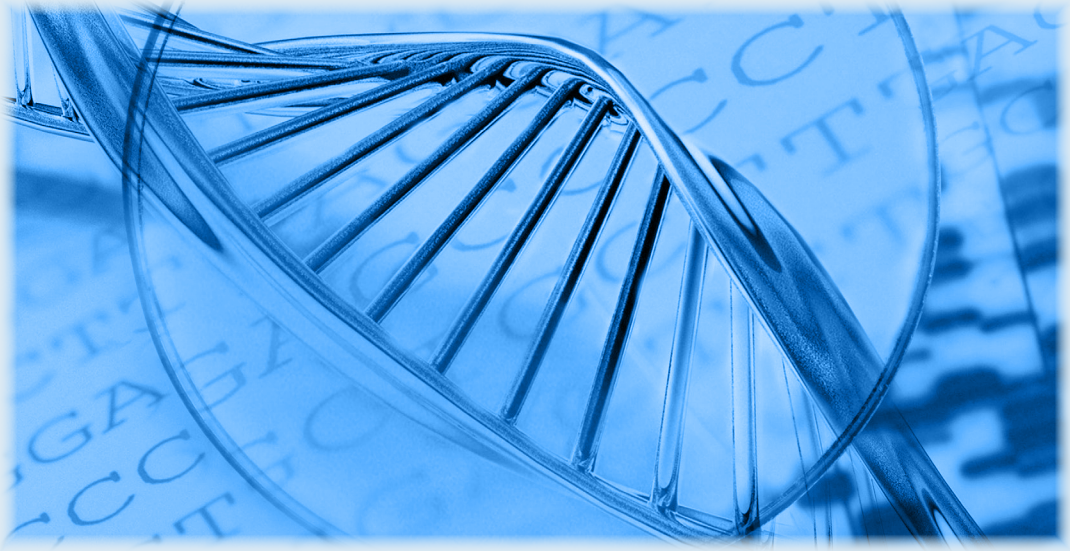
	Session Introduction
10:00-10:20	**Emerging role of *micro*RNA in drought stress tolerance in the biofuel, bioenergy crop sugarcane** **Sangeeta Srivastava,** Oklahoma State University, USA
10:20-10:40	**Targeted analytic methods for deep sequencing** **Jimmy T. Efird,** Brody School of Medicine, USA
10:40-11:00	**The effect of cooking and fermentation on the functional and nutritional properties of cofermented walnut/maize** **Mojisola Adenike,** Federal University Department of Microbiology, Nigeria
	Coffee Break 11:00-11:20 @ Oak
11:20-11:40	**Characterization of photo-acoustic wave imaging using probe beam deflection technique** **Ronald A. Barnes,** The university of Texas, USA
11:40-12:00	**Use of fuzzy set theory and its modifications in understanding problems of bio-informatics** **D.K.Bhattacharya,** Rabindra Bharati University, India
12:00-12:20	**Antioxidant and cytotoxicity activities of *Veitchia merrillii* fruits** **Ali Vafaei,** University of Malaya, Malaysia
12:20-12:40	**Towards production of novel traits from oil palm via genetic modification** **Ahmad Parveez Ghulam Kadir,** Advanced Biotechnology and Breeding Centre, Malaysia
12:40-13:00	**Comparison of the microbial communities of two bioreactors treating metal mine tailing seepage water with different efficiencies** **Maryam Rezadehbashim,** University of British Columbia, Canada
	Lunch Break 13:00-13:45 @ Oak
13:45-14:05	**Mathematical models for study of stem cells dynamics of neurological disorders and some cancer computational models, based on nanobiotechnology** **Katya Marinova Simeonova,** Bulgarian Academy of Sciences, Bulgaria
14:05-14:25	**Antibacterial spectra of lactic acid bacteria from Nigerian fermented foods** **Adebayo,** Cecilia, O, Federal Polytechnic, Ado-Ekiti, Nigeria
	Panel Discussion
	Award Ceremony

Bookmark your dates

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5th World Congress on
Biotechnology

June 10-12, 2014 Valencia, Spain



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