178th OMICS Group Conference

Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

5th World Congress on Biotechnology

June 25-27, 2014 Valencia Conference Centre, Spain



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Day 1 June 25, 2014

08:00-08:30 Registrations

Auditorium 3 A+B

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-08:50 **Opening Ceremony**

Keynote Forum

08:50-09:00 **Introduction**

09:00-09:25 **Marc Van Montagu**
University of Ghent, Belgium

09:25-09:50 **Robert Gaxiola**
Arizoana State University, USA

09:50-10:15 **Ara Kanekanian**
Cardiff Metropolitan University, UK

10:15-10:45 Group Photo & Coffee Break @ Multipurpose Hall 1

Track 2: Biotechnology in Agriculture

Session Chair: Alain Goossens, Ghent University, Belgium
Session Co-Chair: Oscar Vicente, IBMCP, Polytechnic University of Valencia, Spain

Session Introduction

Symposium on:
GM crops to feed the world in the XXI century and the risks posed by the irrational opposition of radical ecologists
by **Ramon Serrano**, Polytechnic University of Valencia, Spain

10:45-11:05 GM crops to feed the world in the XXI century and the risks posed by the irrational opposition of radicalecologists
Ramón Serrano, Polytechnic University of Valencia-CSIC, Spain

11:05-11:25 Engineering crops with enhanced water and nutrient use efficiencies
Roberto Gaxiola, Arizona State University, USA

11:25-11:45 Strategies to increase food production by developing new crop varieties tolerant to abiotic stress
Oscar Vicente, Institute of Plant Molecular and Cellular Biology (IBMCP, UPV-CSIC), Spain

11:45-12:05 Jasmonates and biosynthesis of defense metabolites, can we break the multiple feedback loops?
Alain Goossens, Ghent University, Belgium

12:05-12:25 A forward genetic approach in *Arabidopsis thaliana* identifies novel crucial genes and mechanisms for seed longevity
Eduardo Bueso, Polytechnic University of Valencia-CSIC, Spain

12:25-12:45 Identification of triticale - rye hybrids with ISSR-PCR markers application
Tomasz Warzecha, University of Agriculture in Krakow, Poland

Lunch Break 12:45-13:45 @ Multipurpose Hall 2

13:45-14:05 Management of Citrus Nematode (*Tylenchulus semipenetrans*) by certain plant species
Aida M. El-Zawahry, Assiut University, Egypt

14:05-14:25 Molecular identification of viruses responsible for severe symptoms on potato (*Solanum* sp.) growing in Assiut Governorate (Upper Egypt)
Amal Mohamed Ibrahim Eraky, Assiut University, Egypt

14:25-14:45 Investigation of *Bacillus thuringiensis* Cry1Aa toxicity to *Ephestia kuehniella* (Lepidoptera: Pyralidae)
Souad Rouis, Sfax University, Tunisia

14:45-15:05 Phenotypic structure of grain size and shape variation in M5 mutation lines of spring wheat through gamma irradiation
Kenzhebayeva Saule Sagindikovna, Al-Farabi Kazakh National University, Kazakhstan

Coffee Break 15:05-15:25 @ Multipurpose Hall 1

15:25-15:45 Development of a novel fermentation and formulation process for an endophytic *Beauveria bassiana* strain
Rieke Lohse, University of Applied Sciences Bielefeld, Germany

15:45-16:05 Molecular characterization of Trichoderma isolates as biological control
Khalid Abdel-lateif, Menoufia University, Egypt

16:05-16:25 The application of combinatorial biotechnology to crop improvement: A case study on potato
Elena Rakosy-Tican, Babes-Bolyai University, Romania

Committee Room 1

Track 4: Food and Bioprocess Technology

Session Chair: Ara Kanekanian, Cardiff Metropolitan University, UK
Session Co-Chair: Ana M. Hortigüela, Instituto de Medicina Genómica, Spain

Session Introduction

10:45-11:05 Transformations of carbohydrates into prebiotic oligosaccharides using free or immobilized glycosidic enzymes
Francisco J. Plou, CSIC Institute of Catalysis, Spain

11:05-11:25 Screening and production of phytase from Phytophthora infestans-13
B.S Gowrishankar, Siddaganga Institute of Technology, India

11:25-11:45 **New nanospheres attached Pt(II)-Schiff bases for investigation of glucose oxidase enzyme as biocatalysts**
Nurdan Kurnaz Yetim, Gazi University,Türkiye

11:45-12:05 **Therapeutic effects of *Lactobacillus* and α lipoic acid against DMN -induced liver fibrosis**
Khairy M. A. Zoheir, King Saud University, Saudia Arabia

12:05-12:25 **Evaluation of deep eutectic solvent in extraction of plant phenolic**
Ivana Radojcic Redovnikovic, University of Zagreb, Croatia

12:25-12:45 **Proteomic comparative studies among conventional and GM varieties of soybean and maize**
Flavio Finardi-Filho, University of São Paulo, Brazil

Lunch Break 12:45-13:45 @ Multipurpose Hall 2

13:45-14:05 **Gamma-aminobutyric acid (GABA) as a bioactive compound in food**
Marina Diana, University of Barcelona, Spain

14:05-14:25 **Approaching differently to Zymomonas mobilis: A promising leavening agent**
Alida Musatti, University of Milan, Italy

14:25-14:45 **Effect of sulfate and chloride salts on coal biodesulfurization process employing acidophilic bacteria**
Duarte Paola, National University of Colombia, Colombia

14:45-15:05 **Evaluation of mine tailings biooxidation from laboratory to pilot plant**
Laura Muñoz, National University of Colombia, Colombia

Coffee Break 15:05-15:25 @ Multipurpose Hall 1

15:25-15:45 **Recycling aqueous two-phase systems and application in biotechnology**
Cao Xuejun, East China University of Science and Technology, China

15:45-16:05 **Development of a new method for the quantification of meat species in food samples**
Ana M. Hortigüela, Instituto de Medicina Genómica, Spain

16:05-16:25 **Study of Milk-Clotting Protease s Produced by Local Fungal Strains: Use in Cheese-making**
SOUHILA Bensmail, M'hamed Bougara University, Algeria

Day 2 June 26, 2014

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

Auditorium 3 A+B

Keynote Forum

08:30-08:55 **Dawei Li**
Shanghai Jiao Tong University, China

08:55-09:20 **Manuel Perez-Alonso**
University of Valencia, Spain

09:20-09:45 **Cheorl-Ho Kim**
Sung KyunKwan University, Korea

Track 3: Biotechnology in Health Care
Track 5: Cancer & Genomics Research

Session Chair: Cheorl-H Kim, Sung Kyun Kwan University, Korea
Session Co-Chair: Martin J. D'Souza, Mercer University, USA

Session Introduction

09:45-10:05 **Nano vaccines for infectious diseases**
Martin J. D'Souza, Mercer University, USA

10:05-10:25 **Delivery of Peptides and Proteins**
Richard Addo, Union University, USA

10:25-10:45 **How to create one of the main reference laboratories for the genetic testing of rare diseases**
Manuel Pérez Alonso, University of Valencia, Spain

Coffee Break 10:45-11:05 @ Multipurpose Hall 1

11:05-11:25 **Polyamidoamines as protein carriers, antiviral and antimalarial agents**
Paolo Ferruti, Consorzio Interuniversitario di Scienza e Tecnologia dei Materiali (INSTM), Italy

11:25-11:45 **Nanotechnology against malaria**
Xavier Fernàndez-Busquets, Barcelona Centre for International Health Research, Spain

11:45-12:05 ***In Vitro* antibacterial activity of different *Salvadora persica* miswak extracts against isolated and genetically identified oral cavity pathogens**
Abd El-Latif Hesham, Assiut University, Egypt

12:05-12:25 **Defining spatial distribution of mosquito breeding sites and areas under risk using Remote Sensing - GIS integration**
Mohamed Mahmoud Sowilem, National Authority for Remote Sensing and Space Sciences (NARSS), Egypt

12:25-12:45 **Hesperetin inhibit adipocyte proliferation and differentiation by down regulating adipogenic genes in human mesenchymal stem cells**
Subash-Babu Pandurangan, King Saud University, Saudi Arabia

Lunch Break 12:45-13:45 @ Multipurpose Hall 2

13:45-14:05 **Oxyanion transport properties of SLC26A gene family in hela cell**
Eka Sunarwidhi Prasedya, Fukushima Medical University, Japan

14:05-14:25 **Functional proteomics for biomarker and drug discovery**
Manuel Fuentes, Cancer Research Center, University of Salamanca-CSIC, Spain

14:25-14:45 **Aberrant glycosylation of HBV-derived hepatocarcinoma cancer tissues and blood: HBX and sialyl lewis A for metastasis**
Cheorl-Ho Kim, Sungkyunkwan University, Korea

14:45-15:05 **Systems biology approach in the discovery and development of cyclin-dependent kinase inhibitors as new therapeutics in oncology and cardiology**
Nikolai Zhelev, Abertay University, UK

15:05-15:25 **Counting PCR: An alternative to digital PCR for absolute Quantification**
John SantaLucia, DNA Software Inc, USA

Coffee Break 15:25-15:45 @ Multipurpose Hall 1

15:45-16:05 **Early breast cancer detection with bi-modal molecular imaging**
Barbara Blasiak, University of Calgary, Canada

16:05-16:25 **Regulation of angiogenesis by endogenous metabolite**
Smita C. Pawar, University of Nebraska Medical Center, USA

16:25-16:45 **Molecular imaging of cancer with core/ shell nanoparticles**
Boguslaw Tomanek, University of Calgary, Canada

16:45-17:05 **Protein protease inhibitor: A dietary anti-oxidant**
Sadaf Fatima, Jamia Millia Islamia, India

17:05-17:25 **Detection of hepatitis E virus (HEV) by real time PCR, in pig livers from local groceries in Comunidad Valenciana (Spain)**
García Andrés Mario, UCH-CEU University, Spain

17:25-17:45 **PLGA-g-PVP amphiphilic bioactive and biocompatible copolymers for fabrication of nanostructured materials**
Elisabetta Ranucci, University of Milano, Italy

17:45-18:05 **Antioxidant evaluation of Moringa oleifera therapy combination in mice with *Plasmodium berghei* malaria**
Odunlade A. K, Yaba College of Technology, Nigeria

15:45-17:45 Poster presentation (P56- P110) @ Multipurpose Hall 1

Committee Room 1

Track 13: Petroleum and Environmental Biotechnology
Track 9: Microbiology and Microbial World
Track 12: Marine Biotechnology and Renewable Energy Technology

Session Chair: Marina V. Frontasyeva, Joint Institute for Nuclear Research, Russian Federation
Session Co-Chair: Zlatka Alexieva, Bulgarian Academy of Sciences, Bulgaria

Session Introduction

Symposium: Biotechnology for wastewater treatment, Marina V. Frontasyeva, Joint Institute for Nuclear Research, Russian Federation

09:45-10:05 **Biotechnology for wastewater treatment**
Inga Zinicovscaia, Joint Institute for Nuclear Research, Russia

10:05-10:25 **A Novel BTEX-degrading Bacteria, *Microbacterium esteraromaticum* SBS1-7, Isolated from Seabed Sludge**
Sansanee Khiawjan, Mahidol University, Thailand

10:25-10:45 **Bioecomaterials from agri-wastes**
María De Los Angeles Martín Luengo, Institute of Materials Science of Madrid, CSIC, Spain

Coffee Break 10:45-11:05 @ Multipurpose Hall 1

11:05-11:25 **Production and application of lipopeptide biosurfactant for dispersing oil spill in seawater**
Suwat Soonglerdsongpha, PTT Research and Technology Institute,Thailand

11:25-11:45 **Biodiesel production using waste cooking oil**
Tobinson Briggs, University of Port Harcourt, Nigeria

11:45-12:05 **A viable approach for efficient bioremediation of tannery effluent by simultaneous detoxification of hexavalent chromium and pentachlorophenol by an indigenous Bacillus cereus strain**
Tuhina Verma, Dr. R.M.L. Avadh University, India

12:05-12:25 **Nuclear and related analytical techniques in microbial biotechnology**
Marina V. Frontasyeva, Joint Institute for Nuclear Research, Russian Federation

12:25-12:45 **Catabolic potential related to the aromatic pollutants biodegradation by fungal strains isolated from Antarctic soils**
Zlatka Alexieva, Bulgarian Academy of Sciences, Bulgaria

Lunch Break 12:45-13:45 @ Multipurpose Hall 2

13:45-14:05 **Synthesis and antimicrobial investigations of novel polymer-supported schiff bases**
Dilek Nartop, Nevsehir University, Turkey

14:05-14:25 **Formulation of microbial culture medium using a combination of human urine and acha (Digitaria exilis) extract as broth**
Onwuliri F. C., University of Jos, Nigeria

14:25-14:45 **Cilioprotists as biological indicators for estimating the efficiency of using gravel bed hydroponics system in domestic wastewater treatment**
Hamed A. El-Serehy, King Saud University, Saudi Arabia

14:45-15:05 **Wound healing properties of leaf fraction of Spermacoce verticillata (LINN)**
Edith A Onwuliri, University of Jos, Nigeria

15:05-15:25 **How MAP kinase signaling regulates the transcriptomic and proteomic response of the biocontrol fungus Trichoderma atroviride**
Susanne Zeilinger, Vienna University of Technology, Austria

Coffee Break 15:25-15:45 @ Multipurpose Hall 1

15:45-16:05 **Biosorption of Zn2+ by living and lyophilized biomass of Bacillus cereus DAA54 and Pseudomonas aeruginosa DAA86**
Magdy A. Abo- Gharbia, Sohag University, Egypt

16:05-16:25 **Exploiting the cold environments: psychrophilic bacteria as a promising source of novel bioactive compounds**
Donatella de Pascale, Institute of Protein Biochemistry, National Research Council, Italy

16:25-16:45 **Optimization for marine macro-algal monosaccharaide production using Pseudoalteromonas piscicida**
Manal M.A. El-Naggar, National Institute of Oceanography and Fisheries, Egypt

16:45-17:05 **Nitrate removal by modified lignocellulose**
Anni Keränen, University of Oulu, Finland

17:05-17:25 **Feasibility of biofuels production: combining H2-CH4 and lipid production from food wastes using mixed anaerobic microflora**
X. Gómez, University of León, Spain

17:25-17:45 **Optimization of the operating parameters for beta galactosidase production on cheese whey**
Khaled BOUDJEMA, Université de M'Hamed Bougara, Algérie

17:45-18:05 **Evaluation of sugar cane bagasse hydrolysis by the cellulolytic crude extract from the thermophilic fungus Myceliophthora heterothallica F. 2.1.4.**
Bonilla-Rodriguez G.O., IBILCE-UNESP, Brazil

18:05-18:25 **Investigating the potential of ten South African indigenous plants extracts as quorum sensing inhibitors (QSI) of Pseudomonas aeruginosa virulence-related factors**
Cosa S, University of KwaZulu-Natal, South Africa

18:25-18:45 **What microbial ecology can do for biotechnology: Looking at uncultured microbes in nature, a new gold mine**
Manuel Martinez-Garcia, University of Alicante, Spain

18:45-19:05 **Leachate treatment by different ceramic membranes**
Aissa Belouatek, University of Mostaganem, Algérie

Committee Room 2

Track 8: Biochemistry, Cell and Molecular biology

Session Chair: Salvador Ventura, Universitat Autònoma de Barcelona, Spain
Session Co-Chair: Giuseppe Manco, Institute of Protein Biochemistry, National Research Council (CNR), Italy

Session Introduction

14:00-14:20 **Design of aggregation resistant protein biotherapeutics**
Salvador Ventura, Universitat Autònoma de Barcelona, Spain

14:20-14:40 **Hyperthermophilic phosphotriesterases/ lactonases: Structure, function and applications**
Giuseppe Manco, Institute of Protein Biochemistry, Italy

14:40-15:00 **Novel biologically active caffeic acid-derived biopolymer from different species of Boraginaceae family with potential therapeutic effect**
V.Barbakadze, Tbilisi State Medical University Institute of Pharmacochemistry, Georgia

15:00-15:20 **Molecular response to toxic diatom-derived aldehydes in the sea urchin Paracentrotus lividus**
Stefano Varrella, Stazione Zoologica Anton Dohrn, Italy

Coffee Break 15:20-15:40-@ Multipurpose Hall 1

15:40-16:00 **Identification of muscular dystrophy-specific biomarkers using fluorescence two-dimensional difference in-gel electrophoresis**
Kay Ohlendieck, National University of Ireland, Ireland

16:00-16:20 **Differential inhibition of PDKs by phenylbutyrate and identification of putative binding sites**
Clara Iannuzzi, Institute of Protein Biochemistry, Italy

16:20-16:40 **Optimization of conditions for obtaining hydrogels of PVA/SMTP and evaluation of the presence of crosslinks between chains**
Andreia de A. Morandim-Giannetti, Centro Universitário da FEI, Brazil

16:40-17:00 **Optimized extraction of microalgae's metabolites: a crucial step in High-Throughput Screening programs dedicated to phytoplankton chemodiversity**
Benoît Serive, Laboratoire de Physiologie et Biotechnologie des Algues - Centre IFREMER Nantes, France

17:00-17:20 **MicroRNAs: Are new players in cardiac dysfunctions?**
Belma Turan, Ankara University, Turkey

17:20-17:40 **Application of in situ synthesis of fluorophores to bianalytical assays**
Valery Pavlov, CIC Bioma GUNE, Spain

17:40-18:00 **Mammalian cells communication a possible hypothesis**
Mariapia Viola-Magni, Università degli Studi di Perugia, Italy

Day 3 June 27, 2014

Committee Room 1+2

Keynote Forum

Symposium on: **Enzyme Based Biosensors-Development & Applications**

09:00-09:30 **Aihua Liu**, Qingdao Institute of Bioenergy & Bioprocess, CAS, China

Track 11: Bioinformatics and Biosensor
Track 07: Genetic Engineering and rDNA Technology
Track 01: Current Scenario of Biotechnology
Track 10: Animal Biotechnology and Cell Culture

Session Chair: Aihua Liu, Qingdao Institute of Bioenergy & Bioprocess, CAS, China
Session Co-Chair: Amparo Pascual-Ahuir Giner, Universidad Politecnica de Valencia, Spain

Session Introduction

09:30-09:50 **Use of EST2 from A. acidocaldarius as bioactive part in biosensors for organophosphate detection**
Ferdinando Febbraio, Institute of Protein Biochemistry of CNR, Italy

09:50-10:10 **Mutational load in signaling pathways of human populations and its functional Consequences**
Rosa D. Hernansaiz Ballesteros, Principe Felipe Research Center, Spain

10:10-10:30 **DQCM beating the standard coagulometer in the domain of sensitivity range and information for hemostasis of human plasma**
Munawar Hussain, Tuebingen University, Germany

Coffee Break 10:30-10:50 @ Multipurpose Hall 1

10:50-11:10 **An investigation on regulation on trichome metabolism related genes against salt stress in soybean (Glycine max L. Merr.)**
Özge Çelik, Istanbul Kultur University, Turkey

11:10-11:30 **Real time analysis of gene expression in living yeast cells: Novel approach for accurate cell damage detection**
Amparo Pascual-Ahuir Giner, Universidad Politecnica de Valencia, Spain

11:30-11:50 **A Drosophila high-throughput drug screening platform identifies inhibitors of misregulated alternative splicing events in myotonic dystrophy**
Ruben Artero, Parque Cientifico de la Universitat de València, Spain

11:50-12:10 **Patent protection and transfer of technology in biotechnology**
Maria Rosa DE LA COLINA MONTERO, ELZABURU, S.L.P, Spain

12:10-12:30 **Bringing Biotechnology to society, an overview of the Spanish experience**
Rodrigo García Valiente, Spanish Federation of Biotechnologists, Spain

12:30-12:50 **The EIT's knowledge and innovation communities (KICs): Towards european innovation factories**
Alexander von Gabain, European Institute of Innovation and Technology, Austria

Lunch Break 12:50-13:50 @ Multipurpose Hall 2

13:50-14:10 **Restriction of heterologous lentiviruses by caprine Trim5α**
Lorena de Pablo, Instituto de Agrobiotecnología (CSIC-UPNA-Gobierno de Navarra), Spain

14:10-14:30 **SRLV traces in red deer**
Leticia Sanjosé, Instituto de Agrobiotecnología (CSIC-UPNA-Gobierno de Navarra),Spain

14:30-14:50 **Mapping Quantitative Trait Loci affecting polygenic traits in chicken**
Mostafa K. Nassar, Cairo University, Egypt

14:50-15:10 **The role of p19 gene in the transformation efficiency of amorphadiene synthase in Artemisia annua for artemisinin production**
Elfahmi, Bandung Institute of Technology, Indonesia

Coffee Break 15:10-15:30 @ Multipurpose Hall 1

15:30-15:50 **A comperative superoxide radical sensing study: Designing of different sensing platforms, enzyme-free superoxide radical sensing, and biological applications**
Kaan C. Emregul, Ankara University, Turkey

15:50-16:10 **India's current status of pharmaceutical biotechnology**
Govindasamy Agoramoorthy, Tajen University, Taiwan

16:10-16:30 **Plasmid copy number determination in *B. subtilis* dnaC30 bearing (p5.2) plasmid**
Malika Alili, Ecole Normale Superieure, Algeria

16:30-16:50 **γ-Irradiation induced erythrocytes malformations of medaka (Oryzias latipes)**
Alaa El-Din Hamid Sayed, Assiut University, Egypt

16:50-17:10 **Reduction of estrogenic activity of BPA by fungal Laccase**
Alexandre Nunes Ponezi, State University of Campinas, Brazil

17:10-17:30 **A Biochemical study of acute phase proteins markers of diarrhoea in well fed young rats(Rattus rattus)**
Khaled Ismail Ghaleb, King Khaled university, Saudi Arabia

17:30-17:50 **Acute phase proteins are potent markers for early detection of diarrhea in white New Zealand rabbits (Oryctolagus cuniculus) in Egypt: A Biochemical study**
Aaser Abdelazim, King Khalid University, Kingdom of Saudi Arabia

Closing Ceremony

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6th World Congress on Biotechnology

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