

Joint event on

15th World Congress on

Biotechnology and Biotech Industries Meet

&

2nd International Conference on

Enzymology and Molecular Biology

March 20-21, 2017

Rome, Italy



Conference Series - America

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Olimpica 1

conference**series**.com 08:30-09:00

Opening Ceremony

Keynote Forum

- 09:00-09:30 **Title: Structure-guided design of selective matrix metalloproteinase (MMP) inhibitors and their application in animal models of multiple sclerosis, sepsis, and osteoarthritis**
Gregg B Fields, Florida Atlantic University, USA
- 09:30-10:00 **Title: Developing the bio-economy: Fast track discovery of new enzymes for efficient and value added biomass conversion**
Lene Lange, Technical University of Denmark, Denmark
- 10:00-10:30 **Title: Inhibition of protein tyrosine phosphatase-1B *in vitro* and *in vivo***
Marvin W Makinen, The University of Chicago, USA

Group Photo

Networking and Refreshment @ Foyer 10:30-10:50

- 10:50-11:20 **Title: Choosing between patents and trade secrets for protecting biotech products or bio-production processes**
Paul Calvo, Sterne Kessler Goldstein & Fox, USA
- 11:20-11:50 **Title: AvidinOX-targeted delivery: A new way to improve efficacy of well-known monoclonal antibodies for cancer therapy**
Rita De Santis, Sigma Tau SpA, Italy

Sessions: Structural Enzymology | Enzymology & Biochemistry

Session Chair: Rachel Chen, Georgia Institute of Technology, USA

Session Co-chair: Dejan Bezbradica, University of Belgrade, Serbia

Session Introduction

- 11:50-12:10 **Title: Allokaïric regulation of enzyme function**
Brian G Miller, Florida State University, USA
- 12:10-12:30 **Title: *Candida albicans* glutathione reductase downregulates Efg1-mediated cyclic AMP/ protein kinase A pathway and leads to defective hyphal growth and virulence upon decreased cellular methylglyoxal content accompanied by activating alcohol dehydrogenase and glycolytic enzymes**
Min Kyu Kwak, Seoul National University, South Korea
- 12:30-12:50 **Title: Biotechnological and molecular genetics approaches in the study of enzymes involved in the etiopathogenesis of dental caries**
Petra Borilova Linhartova, Masaryk University, Czech Republic
- 12:50-13:10 **Title: Enzymatic synthesis of prebiotic galacto-oligosaccharides: Application of nanobiocatalysts and structural characterization of product**
Dejan Bezbradica, University of Belgrade, Serbia

Lunch Break 13:10-13:50

- 13:50-14:10 **Title: The effect of natural deep eutectic solvent on laccase catalyzed polycatechin synthesis**
Ayse Ezgi Unlu, Ankara University, Turkey
- 14:10-14:30 **Title: Biochemical effect of some antioxidant on metabolic changes in experimentally induced tumor in female mice**
Mohammed F. EL-Shiekha, October 6 University, Egypt

- 14:30-14:50** Title: **Metabolic engineering strategies for effective use of glycosyltransferases in oligosaccharide synthesis**
Rachel Chen, Georgia Institute of Technology, USA
- 14:50-15:10** Title: **Inhibition of the RNA-dependent RNA polymerase activity of *Flavivirus* NS5 by heterocyclic compounds**
Giuseppe Manfroni, Università degli Studi di Perugia, Italy
- 15:10-15:30** Title: **Knockdown of RPS3, a DNA repair endonuclease, impedes colon cancer growth and progression by decreasing lactate dehydrogenase activity**
Zeina Nasr, University of Balamand, Lebanon
- 15:30-15:50** Title: **Pharmacological chaperones for curing enzymopathies: The case of lysosomal alpha-galactosidase**
Valentina Citro, University of Naples Federico II, Italy

Networking and Refreshment @Foyer 15:50-16:10

Sessions: **Pharmaceutical Biotechnology | Biotechnology in Healthcare | Industrial and Microbial Biotechnology | Environmental Biotechnology | Advances in Biotech Manufacturing**

Session Chair: **Jan Szopa**, Linum Foundation, Poland

Session Co-chair: **Enache Madalin**, Institute of Biology Bucharest of the Romanian Academy, Romania

Session Introduction

- 16:10-16:30** Title: **Internalization of antibody fragments directed against FGFR1**
Lukasz Opalinski, University of Wroclaw, Poland
- 16:30-16:50** Title: **Halophilic microorganisms from mural paintings in old Romanian historical monument church and their interactions with nanomaterials**
Enache Madalin, Institute of Biology Bucharest of the Romanian Academy, Romania
- 16:50-17:10** Title: **Application of enzymes in the pulp and paper industry**
Mija Sezun, Pulp and Paper Institute, Slovenia
- 17:10-17:30** Title: **Microbial bioconversions of biologically active P-C compounds: Scope and limitations of scaling-up**
Ewa Zymanczyk-Duda, Wroclaw University of Science and Technology, Poland
- 17:30-17:50** Title: **How to tune recombinant protein production in *E. coli* for enhanced production of biopharmaceuticals?**
Oliver Spadiut, TU Wien, Austria
- 17:50-18:10** Title: **Cell wall integrity checkpoint protein Rlm1p as novel transcriptional regulator of F-box encoding gene SAF1 of *S. cerevisiae* during stress**
V Verma, Sri Mata Vaishno Devi University, India
- 18:10-18:30** Title: **The investigation of effects of commercial protease and *Bacillus subtilis* 168 E6-5 protease on felting and dyeing behaviour of 100% wool fabric**
Tuba Sevgi, Uludag University, Turkey

Panel Discussion

Day 2 March 21, 2017

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Keynote Forum

- 09:00-09:30** Title: **Optimizing flax fibers for tomorrow's therapeutics**
Jan Szopa, Linum Foundation, Poland
- 09:30-10:00** Title: **Uranium bio-precipitation and recovery from high radiation environments: New approaches**
Shree Kumar Apte, Homi Bhabha National Institute, India

10:00-10:30 **Title: New drugs and catalysts inspired by glutathione peroxidase**
Claudio Santi, University of Perugia, Italy

Networking and Refreshment Break 10:30-10:50 @ Foyer

10:50-11:20 **Title: Bromoperoxidase mimicking bromination catalysts**
Toshiyuki Moriuchi, Osaka University, Japan

Sessions: **Biotechnology Applications | Environmental Biotechnology | Agriculture Biotechnology**

Session Chair: **Shree Kumar Apte**, Homi Bhabha National Institute, India

Session Introduction

11:20-11:40 **Title: Screening of petroleum degrading *Bacillus spp.* strains isolated from different non-contaminated soil samples**
Tuba Sevgi, Uludag University, Turkey

11:40-12:00 **Title: Identification and characterization of a novel thermo stable and oxidant stable protease from Chumathang hot spring using functional metagenomics**
Shafaq Rasool, Shri Mata Vaishno Devi University, India

12:00-12:20 **Title: Salt tolerance of potato: Genetically engineered with *Atriplex canescens* BADH gene driven by 3 copies of CAMV35s promoter**
Arfan Ali, University of Lahore, Pakistan

Special Session

12:20-13:00 **Title: The extraribosomal role of ribosomal proteins**
Zeina Nasr, University of Balamand, Lebanon

Lunch Break 13:00-13:40

Poster Presentations 13:40-14:10

BT-01 **Title: Lactic acid production from hemicellulosic fraction of sorgum bagasse by *Lactobacillus pentosus***
Danielle da Silveira dos Santos Martins, Federal University of Rio de Janeiro, Brazil

BT-02 **Title: Biorefinery safety: The role of INAIL in Italy**
Biancamaria Pietrangeli, INAIL, Italy

BT-03 **Title: Antimicrobial activities of seeds extracts of *Prunus persica*, *Prunus cerasus*, *Prunus avium* and *Prunus armeniaca***
Tuba Sevgi, Uludag University, Turkey

BT-04 **Title: Construction, expression and characterization of a cancer-specific fusion protein targeting CD22 in B-cell malignancies**
Solmaz Agha Amiri, Pasteur Institute of Iran, Iran

ENZ-05 **Title: Optimisation of catalase activity by *Rhodotorula glutinis* using experimental design**
Ayse Ezgi Unlu, Ankara University, Turkey

ENZ-06 **Title: The role of liver CYP1A1 and CYP2E1 enzyme activities and lipid peroxidation level in diabetic rats**
Gökçe Kuzgun, Ankara University, Turkey

ENZ-07 **Title: Novel human indoleamine 2,3-dioxygenase inhibitors form a long-lived complex with the enzyme**
Julie Alexandre, Vertex Pharmaceuticals Ltd., UK

ENZ-08 **Title: Molecular study on the potential therapeutic activity of novel nanocomposite on cancerous tumor bearing mice**
Mohammed F. EL-Shiekha, October 6 University, Egypt

ENZ-09 **Title: Ameliorative effect of some natural products on hepatic and renal functions in female mice bearing cancerous tumor**
Mohammed F. EL-Shiekha, October 6 University, Egypt

ENZ-10 **Title: Catabolic route for 3-guanidinopropionic acid utilization by *Aspergillus niger*: Involvement of 4-guanidinobutyrase**

Tejaswani Saragadam, IIT Bombay, India

ENZ-11 **Title: Molecular characterization of glutathione transferase M1-1 from the *Camelus dromedarius***

Fereniki Perperopoulou, Agricultural University of Athens, Greece

ENZ-12 **Title: Engineering of Tau class GSTs for the development of biosensor**

Foteini M Poulou, Agricultural University of Athens, Greece

Sessions: Enzymology in Drug Discovery | Clinical Enzymology

Session Chair: Anna Anteck, Lodz University of Technology, Poland

Session Co-chair: Wael M Rabeh, New York University Abu Dhabi, UAE

Session Introduction

14:10-14:30 **Title: The catalytic and structural roles of the Human Hexokinase 2 in cancer**

Wael M Rabeh, New York University Abu Dhabi, UAE

14:30-14:50 **Title: Upstream and downstream processing of fungal laccase**

Anna Anteck, Lodz University of Technology, Poland

14:50-15:10 **Title: Continuous methods of fungal laccase concentration**

Michał Blatkiewicz, Lodz University of Technology, Poland

15:10-15:30 **Title: Thermophilic enzymes as industrial biocatalysts**

Jennifer A Littlechild, University of Exeter, UK

15:30-15:50 **Title: Cloning, expression and characterization of β -xylanase gene from *Thermotoga naphthophila***

Muhammad Nauman Aftab, Government College University, Pakistan

Networking and Refreshment Break 15:50-16:10 @ Foyer

16:10-16:30 **Title: Purification, characterization and application of marine *Aspergillus nomius* GWA5 tannase**

Aida M Farag, National Institute of Oceanography and Fisheries, Egypt

16:30-16:50 **Title: Enzymatic changes in obesity-related diseases**

Hala Mourad Demerdash, Alexandria University Hospitals, Egypt

16:50-17:10 **Title: Data analysis of the complexity applied biomedical monitoring of autism**

Ammar I Shihab, University of Baghdad, Iraq

Young Research Forum

Session Chair: V Verma, Sri Mata Vaishno Devi University, India

17:10-17:25 **Title: The role of Zeolite in reducing oxidative damage in tomato plants exposed to drought**

Dino Hasanagic, University of Banja Luka, Bosnia and Herzegovina

17:25-17:40 **Title: Electroconducting π -conjugated N-nonylaryl oligomers as a matrix in the construction of laccase biosensors**

Agnieszka Jedrychowska, Wroclaw University of Technology, Poland

17:40-17:55 **Title: Bio-logic oxidation in organic synthesis**

Francesca Mangiavacchi, University of Perugia, Italy

17:55-18:10 **Title: Investigating miRNA-661 and ATG4b mRNA expression as potential biomarkers for hepatocellular carcinoma**

Osama saber, Armed Forces College of Medicine, Egypt

Panel Discussion

Award & Closing Ceremony