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901st Conference

Scientific Program

2nd International Conference on

Enzymology and Molecular Biology

March 20-21, 2017 | Rome, Italy



Conference Series - America
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Day 1 March 20, 2017

08:00-08:30 Registrations

Olimpica 1

conferenceseries.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: Allokairic 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 Break13:10-13:50

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 polymerasic 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 proeduction 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

Olimpica 1

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 Pouliou,** Agricultural University of Athens, Greece
Sessions: Enzymology in Drug Discovery | Clinical Enzymology	
Session Chair: Anna Antecka, 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 Antecka,** 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	