22\textsuperscript{nd} Global Congress on Biotechnology

&

5\textsuperscript{th} International Conference on Enzymology and Protein Chemistry

February 28-March 02, 2019 | Berlin, Germany
Opening Ceremony

KEYNOTE FORUM

09:50-10:00  Introduction

10:00-10:30  Title: Regulatory hurdles of gene editing, how to overcome them
             Klaus Ammann, University of Bern, Switzerland

10:30-11:00  Title: The effect of increase of NOx and CO2 on grain and fish production, protection of global
             warming and climate
             Shoichiro Ozaki, The Institute of Physical and Chemical Research, Japan

Networking & Refreshments 11:00-11:15 @ Sylt Foyer

11:15-11:45  Title: Biological applications of charged particle guiding through insulating nanocapillaries
             Nikolaus Stolterfoht, Helmholtz-Zentrum Berlin, Germany

GROUP PHOTO

Sessions: Medical Biotechnology | Algal Biotechnology | Pharmaceutical Biotechnology | Environmental Biotechnology
         | Plant and Agriculture Biotechnology

Chair: Nikolaus Stolterfoht, Helmholtz-Zentrum Berlin, Germany

INTRODUCTION

11:45-12:10  Title: Human metaplastic breast carcinoma and decorin
              Annele Sainio, University of Turku, Finland

12:10-12:35  Title: How to produce high quality microalgae proteins from industrial dairy effluent
              Marion Champeaud, Université de Poitiers, France

12:35-13:00  Title: Protein engineering applied to obtain biobetters of antitumor enzyme asparaginase
              Gisele Monteiro, University of São Paulo, Brazil

Lunch Break 13:00-14:00 @ Restaurant Rienäcker

14:00-14:25  Title: Cytochrome P450 enzymes as target for drug development
              Klaus Pors, University of Bradford, UK

14:25-14:50  Title: Assessment of the optimum sites for industrial-scale microalgae biofuel production in red
              sea region based on GIS models & estimation by mathematical modelling
              Seifeldin Khedir, University of Khartoum, Sudan

14:50-15:15  Title: Detection and evaluation of industrial gas pollutants using optical sensor based on surface
              plasmon resonance technique
              Sara Mohseni, Niroo Research Institute, Iran
15:15-15:40

**Title:** Overexpression of a tomato annexin gene AnnSp2, enhances abiotic stress tolerance in transgenic tomato through ABA synthesis and modulation of ROS production  
**Raina Ijaz,** University of Poonch Rawalakot, Pakistan

15:40-16:05

**Title:** Aldehyde dehydrogenases as target for biomarker and drug discovery  
**Klaus Pors,** University of Bradford, UK

**Networking & Refreshments 16:05-16:20 @ Sylt Foyer**

**PANEL DISCUSSION**

**Day-2**

*March 01, 2019*

**Meeting Hall: Sylt 5**

**KEYNOTE FORUM**

09:50-10:00

**Introduction**

10:00-10:30

**Title:** Plasmonic nanostructures for imaging and targeting drug delivery  
**Oara Neumann,** Rice University, USA

**Title:** Synthetic mRNAs in clinical trials: Manufacturing of high quality GMP-grade synthetic mRNAs  
**Guido Krupp,** AmpTec GmbH, Germany

**Networking & Refreshments 11:00-11:15 @ Sylt Foyer**

11:15-11:45

**Title:** The layer-by-layer technology: Design of novel soft, hard and hybrid advanced biomaterials for drug delivery  
**Anna S Vikulina,** Fraunhofer Institute for Cell Therapy and Immunology, Germany

**Sessions:** Pharmaceutical Biotechnology | Nano Biotechnology | Medical Biotechnology | Genetics/Genetic Engineering

**Chair:** Oara Neumann, Rice University, USA

**INTRODUCTION**

11:45-12:10

**Title:** Green production of bioethanol using solar steam generated with nanoparticles  
**Oara Neumann,** Rice University, USA

12:10-12:35

**Title:** Protein aggregation characterized by nanotechnology  
**Jiali Li,** University of Arkansas, USA

**Title:** The role of the leader of the academic research group in promoting academic startups of biotechnology  
**Gisele Rodrigues Atayde,** University of Sao Paulo, Brazil
**POSTER PRESENTATIONS 14:00-15:00 @ SYLT FOYER**

**Poster Judge:** Oara Neumann, Rice University, USA

**PE-01**
**Title:** The fabrication of self-shrinking multilayer bio-capsules templated on CaCO$_3$ vaterite crystals  
Anna Vikulina, Fraunhofer Institute for Cell Therapy and Immunology, Germany

**PE-02**
**Title:** Cellulase production with Penicillium verruculosum strain in lab and pilot scale  
Martin Schomber, Universität Leipzig, Germany

**PE-03**
**Title:** How to convert industrial dairy effluent into high quality proteins with microalgae  
Marion Champeaud, Université de Poitiers, France

**PE-04**
**Title:** Peroxiredoxin I as a candidate biomarker of male fertility  
Do-Yeal Ryu, Chung Ang University, Republic of South Korea

**PE-05**
**Title:** Patent protection of monoclonal antibodies useful to combat multidrug-resistant bacteria  
Katia dos Reis, Institute of Immunobiological Technology, Brazil

**PE-06**
**Title:** Engineered Erwinase with possible fewer adverse effects for treatment of acute lymphoblastic leukemia  
Iris Munhoz Costa, University of São Paulo, Brazil

**PE-07**
**Title:** Bioprospecting and rational engineering of new L-asparaginase to present a better biopharmaceutical for blood cancer treatment  
Tales A Costa-Silva, University of São Paulo, Brazil

**PE-08**
**Title:** Effect of Vanadium stress on physiological and anthocyanin genes in Brassica genotypes with different photosynthetic activity.  
Javeria Ejaz, University of Poonch Rawalakot, Pakistan

**NETWORKING AND REFRESHMENTS BREAK 15:00-15:15 @ SYLT FOYER**

**PANEL DISCUSSION**

**AWARDS & CLOSING CEREMONY**

**Day-3**

March 02, 2019

**NETWORKING LUNCH 12:30-13:30 @ RESTAURANT RIENÄCKER**