

# Scientific Program



22<sup>nd</sup> Global Congress on  
**Biotechnology**

&

5<sup>th</sup> International Conference on  
**Enzymology and  
Protein Chemistry**

February 28-March 02, 2019 | Berlin, Germany

# Day-1

February 28, 2019

09:00-09:30 Registrations

## Opening Ceremony

09:30-09:50

Meeting Hall: Sylt 5

### KEYNOTE FORUM

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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 NO<sub>x</sub> and CO<sub>2</sub> 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

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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

**10:30-11:00** **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

**12:35-13:00** **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

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

## 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<sub>3</sub> 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