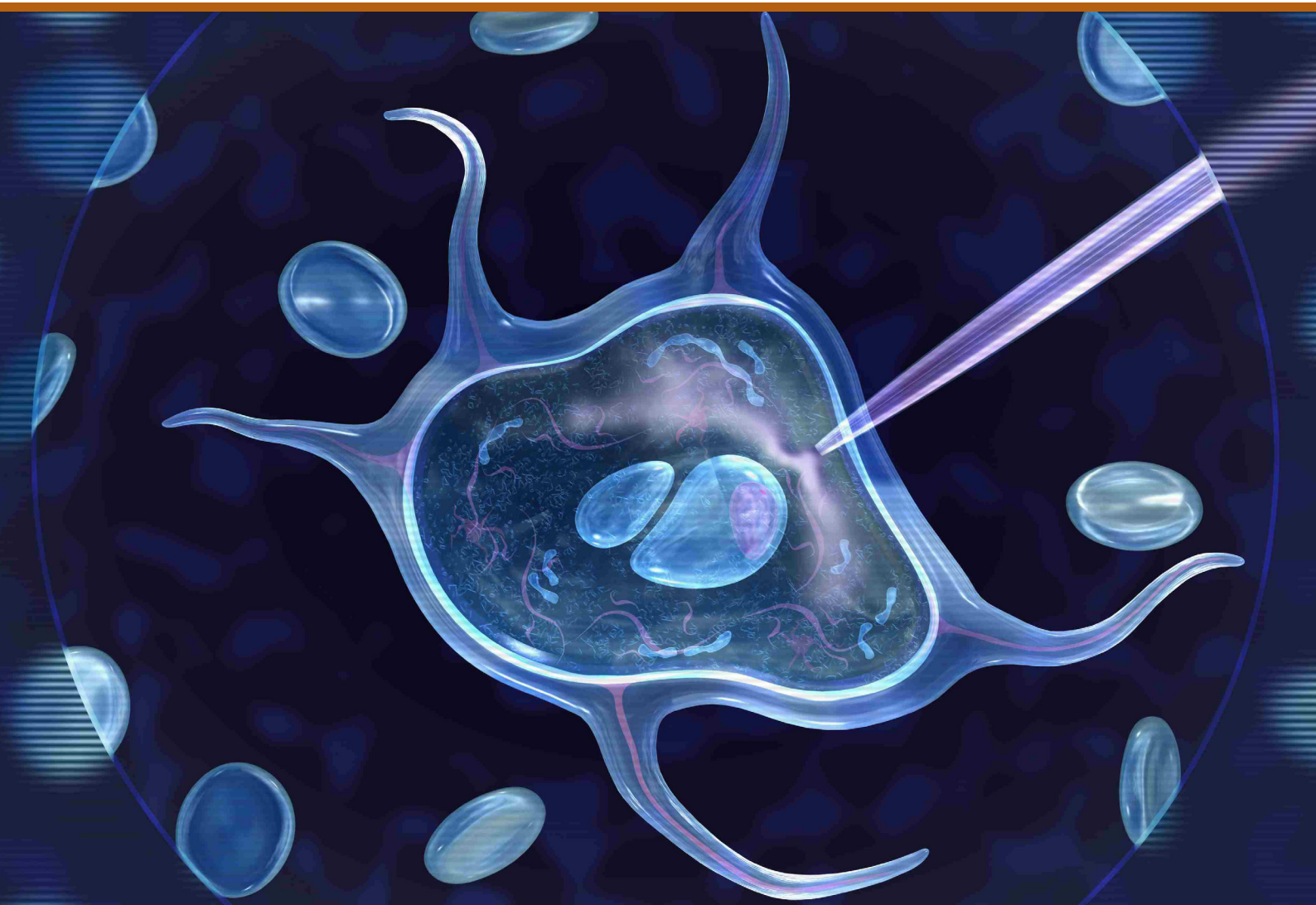


3<sup>rd</sup> International Conference on

# **Systems and Synthetic Biology**

July 20-21, 2017 Munich, Germany



**Conference Series - America**

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA  
Toll Free: 1-888-843-8169, P: 702-508-5200, F: +1-650-618-1417

**Conference Series - UK**

Kemp House, 152 City Road, London EC1V 2NX, UK  
Toll Free: +0-800-014-8923

Forum 12

conference**series**.com 09:30-09:50

# Opening Ceremony

## Keynote Forum

09:50-10:00 Introduction

**Title: Design of synthetic epigenetic circuits exhibiting positive feedback, memory effects and reversible switching**

10:00-10:45

**Albert Jeltsch**, University Stuttgart, Germany

10:45-11:30

**Title: Tumor cell radiosensitization-ion beams and metal nanoparticles**

**Martin Falk**, Institute of Biophysics of CAS, Czech Republic

Networking & Refreshment Break & Group Photo 11:30-11:45 @ Foyer Ballsaal

### Presentation on Takara Bio Europe

11:45-12:15

**Title: Next-gen cloning and purification technologies to rapidly generate synthetic genes and proteins**

**Malathi Raman**, Takara Bio Europe, France

Sessions: Cellular Systems Biology | Next Generation Sequencing | Plant Synthetic Biology | Synthetic Chemistry | Protein Engineering | Synthetic Genomics | Gene synthesis | Synthetic Gene Networks

Session Chair: Yaman Arkun, KOC University, Turkey

12:15-12:45

**Title: Exploring unique compounds from lignin degradation using MnSOD and DyP-type peroxidase enzymes**

**Sharon Mendel Williams**, Coventry University, UK

12:45-13:15

**Title: Relationship between chromatin structure and chromosomal rearrangements in myelodysplastic syndromes**

**Iva Falková**, Institute of Biophysics, Czech Republic

Lunch Break 13:15-14:15 @ Restaurant Grat3

14:15-14:45

**Title: Dynamic modeling of RAS-MAPK signaling pathway: Sensitivity, bistability, and oscillations**

**Yaman Arkun**, KOC University, Turkey

14:45-15:15

**Title: Advanced work flow for efficient multiplexing synthesis of genes in high fidelity – Next generation of gene synthesis**

**Xiaolian Gao**, University of Houston, USA

## Special Session

15:15-15:45

**Title: Becoming a synthetic biology entrepreneur**

**John B Carrigan**, SOSV Limited, Ireland

### Presentation on Explora Biotech Srl

15:45-16:00

**Podium Presentation**

**Davide De Lucrezia**, Explora Biotech Srl, Italy

Networking & Refreshment Break 16:00-16:15 @ Foyer Ballsaal

### Panel Discussion

Day 2 July 21, 2017

## Forum 12

### Keynote Forum

**10:00-10:45** Title: **Empowering computer-assisted biological design by using in vivo characterized standard biological parts**

**Davide De Lucrezia**, Explora Biotech Srl, Italy

Sessions: **Systems and Synthetic Biology | Systems Biology | Computational Systems Biology | Industrial Systems and Synthetic Biology | Metabolomics | Bio-Sensors and Bio-Electronics | Biology Engineering**

Session Chair: **Maria Antonietta Ragusa**, University of Palermo, Italy

**10:45-11:15** Title: **Escherichia coli HGT – A novel high glucose throughput chassis especially designed for typical production conditions in large scale based on comprehensive systems biology studies**

**Ralf Takors**, University Stuttgart, Germany

Networking & Refreshment Break 11:15-11:30 @ Foyer Ballsaal

**11:30-12:00** Title: **Biosecurity and how export controls impact the life sciences**  
**Betty Lee**, Non-Proliferation and Treaty Compliance, US Department of Commerce, USA

**12:00 -12:30** Title: **A robust PCA algorithm for metagenomic biomarker detection**  
**Erchin Serpedin**, Texas A&M University, USA

**12:30-13:00** Title: **Metallothionein family in sea urchin: Genes and their expression during embryo development and following exposure to stressors**  
**Maria A Ragusa**, University of Palermo, Italy

Lunch Break 13:00-14:00 @ Restaurant Grat3

Presentation on Tecan Group Ltd

**14:00-14:30** Title: **Automation and Synthetic Biology simplifying complexity**  
**Guido Cimoli**, Tecan Group Ltd., Germany

Young Research Forum

Judge: **Martin Falk**, Institute of Biophysics of CAS, Czech Republic

**14:30-14:55** Title: **Microbiome contribution and metabolite intervention in post-dieting weight regain**  
**Lenka Dohnalová**, University of Chemical Technology, Czech Republic

**14:55-15:20** Title: **Modularization strategies in metabolic engineering *Serratia marcescens* for N-acetylneuraminic acid production**  
**Qiang Yan**, Virginia Commonwealth University, USA

Poster Presentations @ Meeting Halls (15:20-15:50)

Networking & Refreshment Break 15:50-16:05 @ Foyer Ballsaal

Panel Discussion

Closing Ceremony

**Bookmark your dates**

4<sup>th</sup> International Conference on

# Systems and Synthetic Biology

June 11-12, 2018 Rome, Italy