

Tentative Program

4th International Conference on **Synthetic Biology and Tissue Engineering**

June 11-12, 2018 Rome, Italy



Interactive
Sessions

Keynote
Lectures

Plenary
Lectures

Workshops

Exhibitors

B2B
Meetings

For available speaker slots

4th International Conference on Synthetic Biology and Tissue Engineering

June 11-12, 2018 Rome, Italy

Program at a Glance

Day 1 June 11, 2018

Reception/Registration		08.00-09.00	
	Time	General Session	
	09.00-09.15	Inaugural Address	
Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1	
	09.45-10.15	Keynote/Plenary Talk 2	
	10.15-10.45	Keynote/Plenary Talk 3	
	Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)			
11.00-12.40		5 Speakers (20 Mins Each)	
Lunch Break 12.40-13.30			
13.30-15.30		6 Speakers (20 Mins Each)	
Coffee/Tea Break 15.30-15.45 (Networking)			
15.45-17.25		5 Speakers (20 Mins Each)	

19 Speakers for Day 1

Day 2, June 12, 2018

Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Lunch Break 12.35-13.25			
	13.25-15.05		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Poster Sessions			
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Evening Sessions	Awards & Closing Ceremony			

30 Speakers on Day 3

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details PS: <http://syntheticbiology.conferenceseries.com/>
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Conference Highlights

- Systems and Synthetic Biology
- Synthetic Biology
- Tissue Engineering
- CRISPR-Cas9 Genome Editing
- Computational Systems Biology
- Biomaterials in Tissue Engineering
- Scaffolds in Tissue Engineering
- Tissue repair and Regeneration
- Mammalian Synthetic Biology
- Synthetic Bioengineering
- Synthetic Biotechnology
- Gene Therapy in Tissue Engineering
- Synthetic Genomics
- Tissue engineering and Regenerative medicine
- Bone Tissue Engineering
- Cartilage Tissue Engineering
- Next Generation Sequencing
- Synthetic Chemistry
- Stem Cell and Tissue Engineering
- Bioreactors in Tissue Engineering
- Angiogenesis & Vascularization

For detailed sessions, please visit: <http://syntheticbiology.conferenceseries.com/>

Submit your abstract online at: <http://syntheticbiology.conferenceseries.com/abstract-submission.php>

Register online: <http://syntheticbiology.conferenceseries.com/registration.php>



Glimpses of Synthetic Biology Conferences



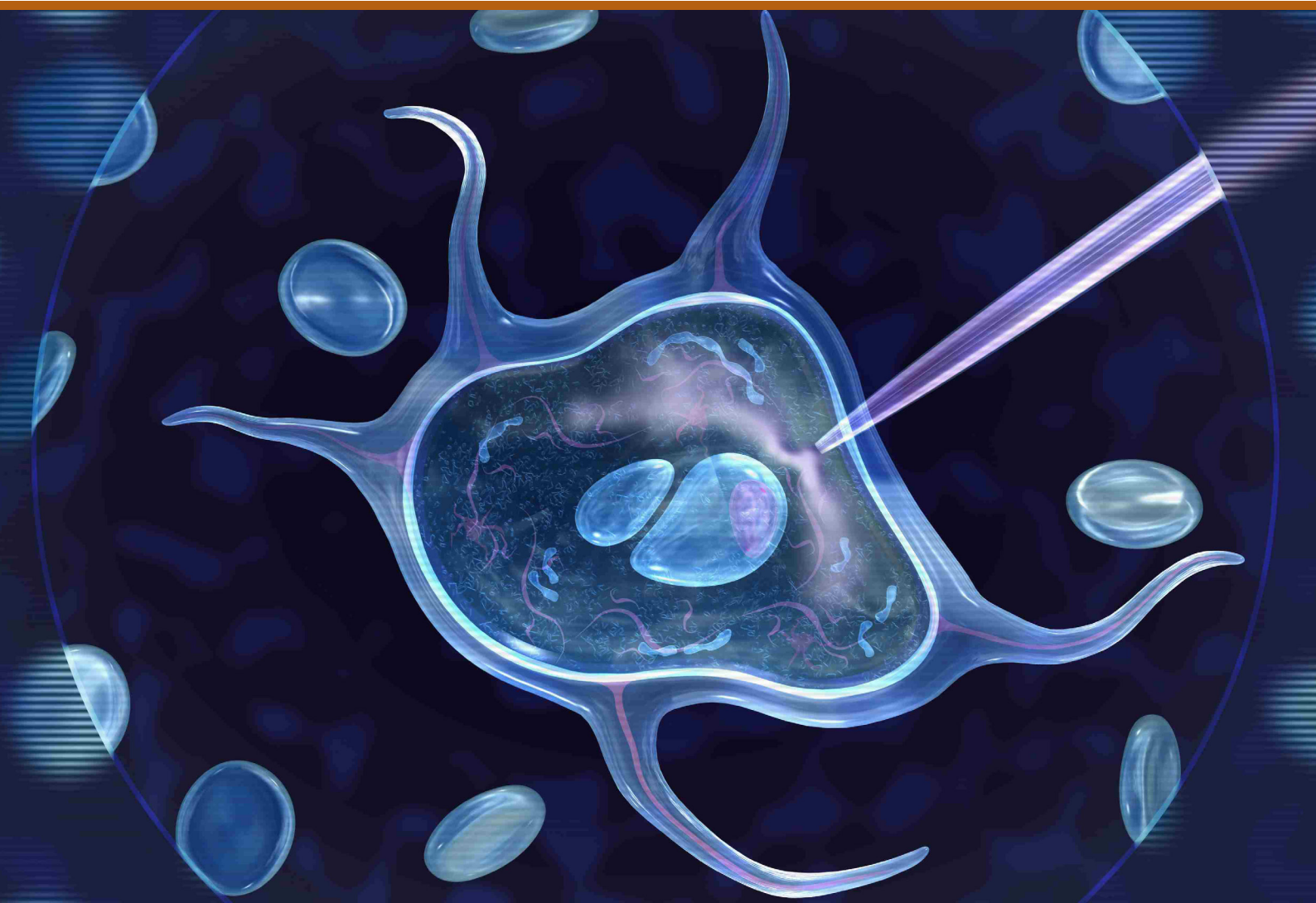
BEST TOURIST ATTRACTIONS IN ROME, ITALY



3rd 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

Opening Ceremony

Keynote Forum

Introduction

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

Albert Jeltsch, University Stuttgart, Germany

Title: Tumor cell radiosensitization-ion beams and metal nanoparticles

Martin Falk, Institute of Biophysics of CAS, Czech Republic

Networking & Refreshment Break & Group Photo

Presentation on Takara Bio Europe

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

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

Sharon Mendel Williams, Coventry University, UK

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

Iva Falková, Institute of Biophysics, Czech Republic

Lunch Break

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

Yaman Arkun, KOC University, Turkey

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

Title: Becoming a synthetic biology entrepreneur

John B Carrigan, SOSV Limited, Ireland

Presentation on Explora Biotech Srl

Podium Presentation

Davide De Lucrezia, Explora Biotech Srl, Italy

Networking & Refreshment Break

Panel Discussion

Day 2 July 21, 2017

Forum 12

Keynote Forum

Title: Empowering computer-assisted biological design by using in vivo characterized standard biological parts

Davide De Lucrezia, Explora Biotech Srl, Italy

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

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

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

Title: Biosecurity and how export controls impact the life sciences

Betty Lee, Non-Proliferation and Treaty Compliance, US Department of Commerce, USA

Title: A robust PCA algorithm for metagenomic biomarker detection

Erchin Serpedin, Texas A&M University, USA

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

Presentation on Tecan Group Ltd

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

Title: Microbiome contribution and metabolite intervention in post-dieting weight regain

Lenka Dohnalová, University of Chemical Technology, Czech Republic

Title: Modularization strategies in metabolic engineering Serratia marcescens for N-acetylneuraminic acid production

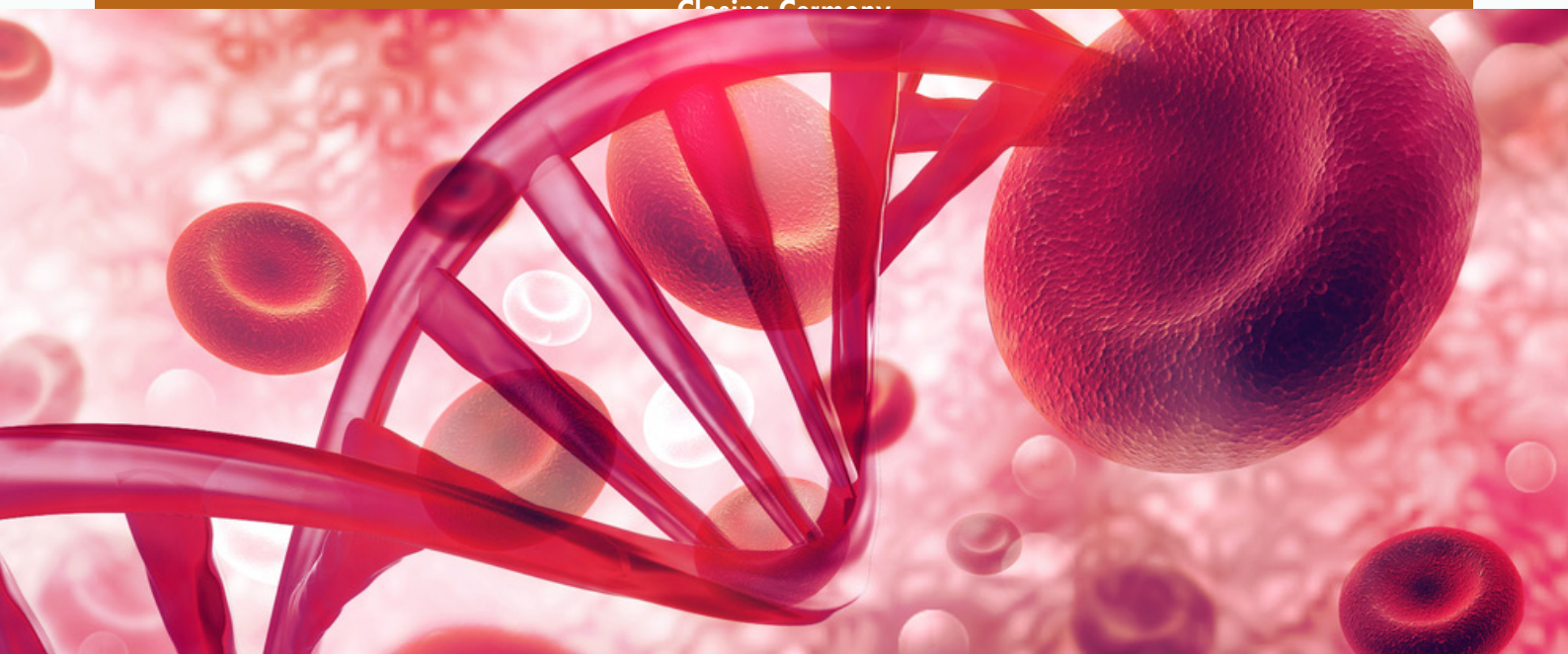
Qiang Yan, Virginia Commonwealth University, USA

Poster Presentations @ Meeting Halls

Networking & Refreshment Break

Panel Discussion

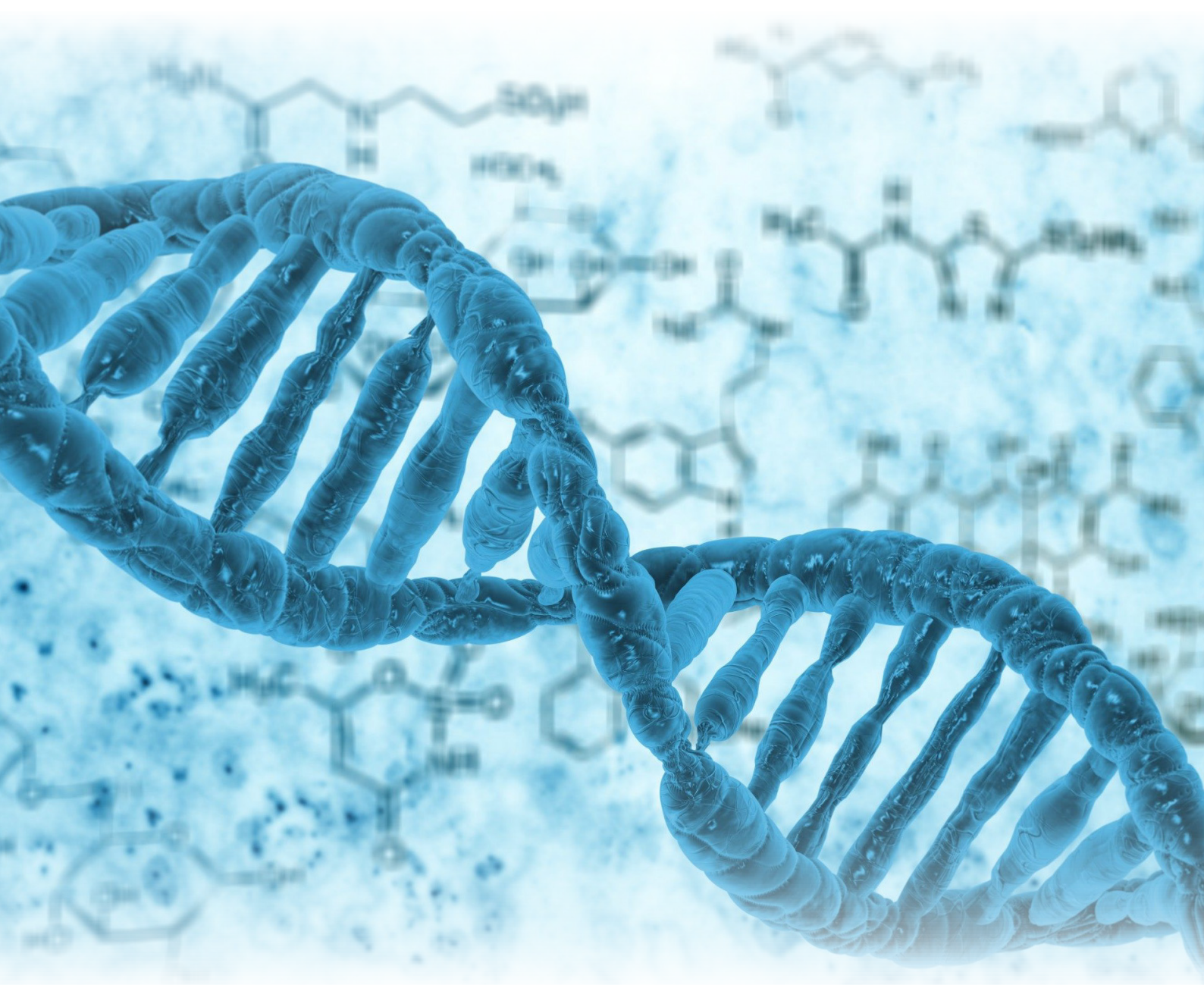
Closing Ceremony



2nd International Conference on

Systems & Synthetic Biology

August 18-20, 2016 London, UK



Hosting Organization: Conference Series LLC

2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Ph: +1-702-508-5200 Ext: 8047, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

Conference Series Ltd

Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499

Email: syntheticbiology@conferenceseries.net, syntheticbiology@conferenceseries.com

Scientific Program

Day 1 August 18, 2016

Registrations

Kennedy

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Opening Ceremony

Keynote Forum

Title: Synthetic mRNAs as optimized tools for stem cell generation and for manipulating cellular phenotypes

Guido Krupp, AmpTec GmbH, Germany

Title: Enhancing the synthetic IQ of CAR T-cells

Michael Jensen, Seattle Children's Research Institute, USA

Networking & Refreshment Break @ Foyer

Session: Structural Biology | Integrative Biology | Protein Engineering | Industrial Synthetic Biology and Tissue Engineering | Biotechnology Advances | Metabolomics

Session Introduction

Session Chair: Guido Krupp, AmpTec GmbH, Germany

Session Co-Chair: Roberto Mazzoli, University of Torino, Italy

Title: Use of synthetic proteins and future trends: The example of calstabin

Jean A Boutin, Institut de recherches SERVIER, France

Title: Construction of recombinant cellulolytic microorganisms for cellulose consolidated bioprocessing by metabolic engineering: Achievements, hurdles and perspectives

Roberto Mazzoli, University of Torino, Italy

Title: Solving of the structural heterogeneity of human catalytic antibody light chains and the role of the constant domain

Taizo Uda, Oita University, Japan

Lunch Break @ Orwell's Brasserie

Special Session: **Automation at the heart of synthetic biology**
by **Paul Lomax**, TTP Labtech, UK

Title: Biological features of human catalytic antibody light chains possessing the ability against the infection of influenza virus

Emi Hifumi, Oita University, Japan

Title: Lactic acid bacteria for nutraceuticals and added value products production

Enrica Pessione, University of Torino, Italy

Networking & Refreshment Break - @ Foyer

Title: MicroRNAs: Potential biomarkers and therapeutic targets in osteoarthritis

Mohit Kapoor, University Health Network, Canada

Title: Design of artificial anaerobic microbial community for bioremediation

Arata Katayama, Nagoya University, Japan

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

Sharon Mendel Williams, Coventry University, UK

Special Session: **Biosecurity and how export controls impact the life sciences**
by **Betty Lee**, United States Department of Commerce, USA

Panel Discussion

Day 2 August 19, 2016

Kennedy

Keynote Forum

Title: A computer model simulating human glucose absorption and metabolism in health and metabolic disease states

Richard J Naftalin, King's College London, UK

Session: **Synthetic Genomics | Synthetic Gene Network | Gene Synthesis | Biophysics | Bio-Sensors and Bio-Electronics | Next Generation Sequencing | Computational Systems Biology | Pharmaceutical Biology**

Session Introduction

Session Chair: Anthony C Forster, Uppsala University, Sweden

Session Co-Chair: Martin Falk, Czech Academy of Sciences, Czech Republic

Title: NextGen SynBio: Synthetic genomics and drug discovery

Anthony C Forster, Uppsala University, Sweden

Title: Towards a complex view on DNA damage and repair: Epigenetic and spatio-temporal aspects

Martin Falk, Czech Academy of Sciences, Czech Republic

Networking & Refreshment Break @ Foyer

Title: Selection systems for α -type and α -type yeasts using cell-type-specific transcriptional regulation machinery

Nobuo Fukuda, National Institute of Advanced Industrial Science and Technology, Japan

Title: Designable RNA architectures for rapidly engineering and analyzing synthetic metabolisms

James M Carothers, University of Washington, USA

Title: The assembly of 2D and 3D droplet interface bilayers from cell-sized droplets using optical tweezers

Mark S Friddin, Imperial College London, UK

Title: Real-world microfluidic analytics applications in the pharmaceutical biotech industry

Hector Hugo Caicedo, Pharmaceutical Companies of Johnson & Johnson, USA

Title: Spatial control of biochemical modification pathways and cascades

Krishnan, Imperial College London, UK

Lunch Break @ Orwell's Brasserie

Session Chair: Richard J Naftalin, King's College London, UK

Session Co-Chair: Roberto Mazzoli, University of Torino, Italy

Title: Cyanobacteria as photosynthetic biofuel factories: Synthetic biology methods in the development of next-generation production platforms

Pauli Kallio, University of Turku, Finland

Young Research Forum

Title: Engineering listeriolysin O for specific pore formation *in vitro*

Sasa Rezelj, National Institute of Chemistry, Slovenia

Title: Engineering of *Saccharomyces cerevisiae* toward n-butanol production

Reem Swidah, The University of Manchester, UK

Title: Towards cellulose consolidated bioprocessing into biofuel through recombinant *Clostridium cellulovorans*: Detailed analysis of the central metabolism and development of optimized gene manipulation tools

Chiara Gandini, University of Torino, Italy

Title: Engineering a mini-cellulosome in *Lactococcus lactis* for direct conversion of cellulose in lactic acid: Cloning and expression of recombinant scaffoldin proteins

Loredana Tarraran, University of Torino, Italy

Networking & Refreshment Break @ Foyer

Title: Recombinant *Lactococcus lactis* for efficient conversion of cello-oligosaccharides into L-lactic acid

Denis Kalemasi, University of Torino, Italy

Title: Cell junction, oxidative stress, inflammation and gene polymorphism: Are they clues to myocardial infarction?

Ingy Hashad, German University in Cairo, Egypt

Title: Use of the *Arabidopsis* MAGIC population to identify genes involved in phosphate use efficiency

Azizah Nahari, The University of Edinburgh, UK

Title: Evolution and diversification of alcohol dehydrogenases in the monoterpene indole alkaloid pathway of *Catharanthus roseus*

Anna K Stavrinides, John Innes Centre, UK

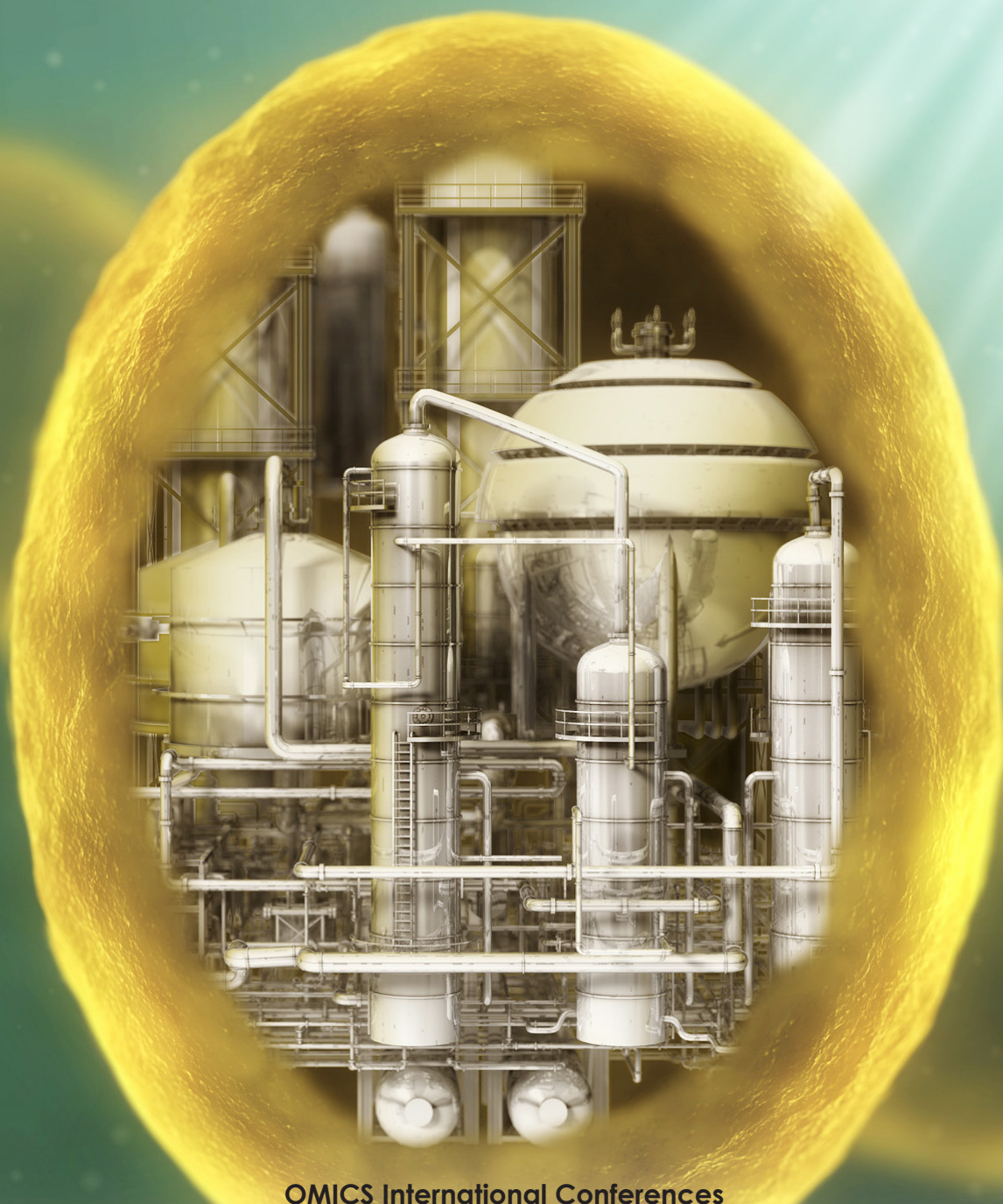
Panel Discussion

Day 3 August 20, 2016

Extended Networking Session & Lunch @ Orwell's Brasserie

International Conference on
Synthetic Biology

September 28-29, 2015 Houston, USA



OMICS International Conferences

2360 Corporate Circle., Suite 400, Henderson NV 89074-7722, USA

Phone: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499; Toll free: +1-800-216-6499

Email: syntheticbiology@conferenceseries.com; syntheticbiology@conferenceseries.net

Scientific Program

Day 1

September 28, 2015

Registrations

Canterbury

Opening Ceremony

Keynote Forum

Introduction

Title: Recent advancement and developments in synthetic biology

Vsevolod V (Seva) Gurevich, Vanderbilt University Medical Center, USA

Group Photo

Coffee Break @ Windsor-II

Title: Synthetic RNA molecule mitigates HIV-induced apoptosis of cardiomyocytes and also prevents HIV infection

Makobetsa Khati, CSIR Biosciences, South Africa

Title: Tissue and organ fabrication for the heart

Ravi K Birla, University of Houston, USA

Workshop on **Prospects of synthetic molecules in medicine**
by **Makobetsa Khati**, CSIR Biosciences, South Africa

Lunch Break @ Windsor-II

Workshop on **Recent advances in Cardiac tissue engineering**
by **Ravi K Birla**, University of Houston, USA

Track 1 : Protein Engineering Design and Selection

Track 10 : Industrial Synthetic Biology

Track 11: Animal Cell and Tissue Engineering

Chair: Ravi K Birla, University of Houston, USA

Co-chair: Makobetsa Khati, CSIR Biosciences, South Africa

Session Introduction

Title: Conversion of adipogenic mesenchymal stem cells into mature cardiac myocytes

Robert J Schwartz, University of Houston, USA

Title: Engineering signaling-biased arrestins for targeted regulation of cell behavior

Vsevolod V (Seva) Gurevich, Vanderbilt University, USA

Coffee Break @ Windsor-II

Title: Dissecting the roles of the scaffold protein IQGAP1 in epithelial cell maturation

Volker Schweikhard, Rice University, USA

Title: Olive biotechnology: The assessment of tissue culture induced genetic variability in olive (*Olea europaea*) by molecular markers

Masoud Sheidai, Shahid Beheshti University, Iran

Panel Discussion

Day 2

September 29, 2015

Canterbury

Keynote Forum	
Title: Modulation of estrogen receptor activity by 27-hydroxycholesterol and its mechanisms of action Michi Umetani , University of Houston, USA Title: Structural alterations of leukocyte integrin, LFA Mehmet Sen , Harvard Medical School, USA	
Coffee Break @ Windsor-II	
Workshop on Redesigning proteins, one function at a time by Vsevolod V (Seva) Gurevich , Vanderbilt University Medical Center, USA	
Track 3 : Molecular Modeling and Drug Designing Track 5 : Development of Recombinant-DNA technology Track 9 : Computational Biology Track 11 : Animal Cell and Tissue Engineering	
Chair: Vsevolod V (Seva) Gurevich , Vanderbilt University Medical Center, USA Co-chair: Pushpa Agrawal , R. V. College of Engineering, India	
Session Introduction	
Title: Metabolic engineering of a high biomass C4 grass for commercial scale production of bioplastics Stevens M Brumbley , University of North Texas, USA	
Lunch Break @ Windsor-II	
Title: Biological synthesis of gold nanoparticles & test for cytotoxicity and anti-microbial activity Pushpa Agrawal , R. V. College of Engineering, India Title: Mass production of high fidelity oligonucleotides as feed stock of Post-genome-sequencing synthetic biology (PGS-SB) Xiaolian Gao , University of Houston, USA Title: Structural modeling of C5a receptor: Molecular insights into agonism and antagonism Soumendra Rana , Indian Institute of Technology Bhubaneswar, India	
Panel Discussion	
Coffee Break @ Windsor-II	
Poster Presentations 15:50-16:50 @ Gallery	
SYB-01	Title: Controlled ultrasound cavitation for DNA delivery into bacteria and yeast Gustavo Stadthagen , BIOASTER, France
SYB-02	Title: Mitigation of poultry-borne campylobacteriosis by an engineered enteric commensal Richard McLean , University of Lethbridge, Canada
SYB-03	Title: Comparison of intracellular and extracellular cellulase production by recombinant bacterium Escherichia coli Zehra Tatli , Hacettepe University, Turkey
SYB-04	Title: <i>In silico</i> molecular docking of ligands for inhibition of L-amino acid oxidase from Calloselasma rhodostoma Neema K N , Sri Jayachamarajendra College of Engineering, India
SYB-05	Title: Screening of phytochemicals for the inhibition of JAK2 by molecular docking Shalini Koshle , Sri Jayachamarajendra College of Engineering, India
Panel Discussion	
Closing Ceremony	