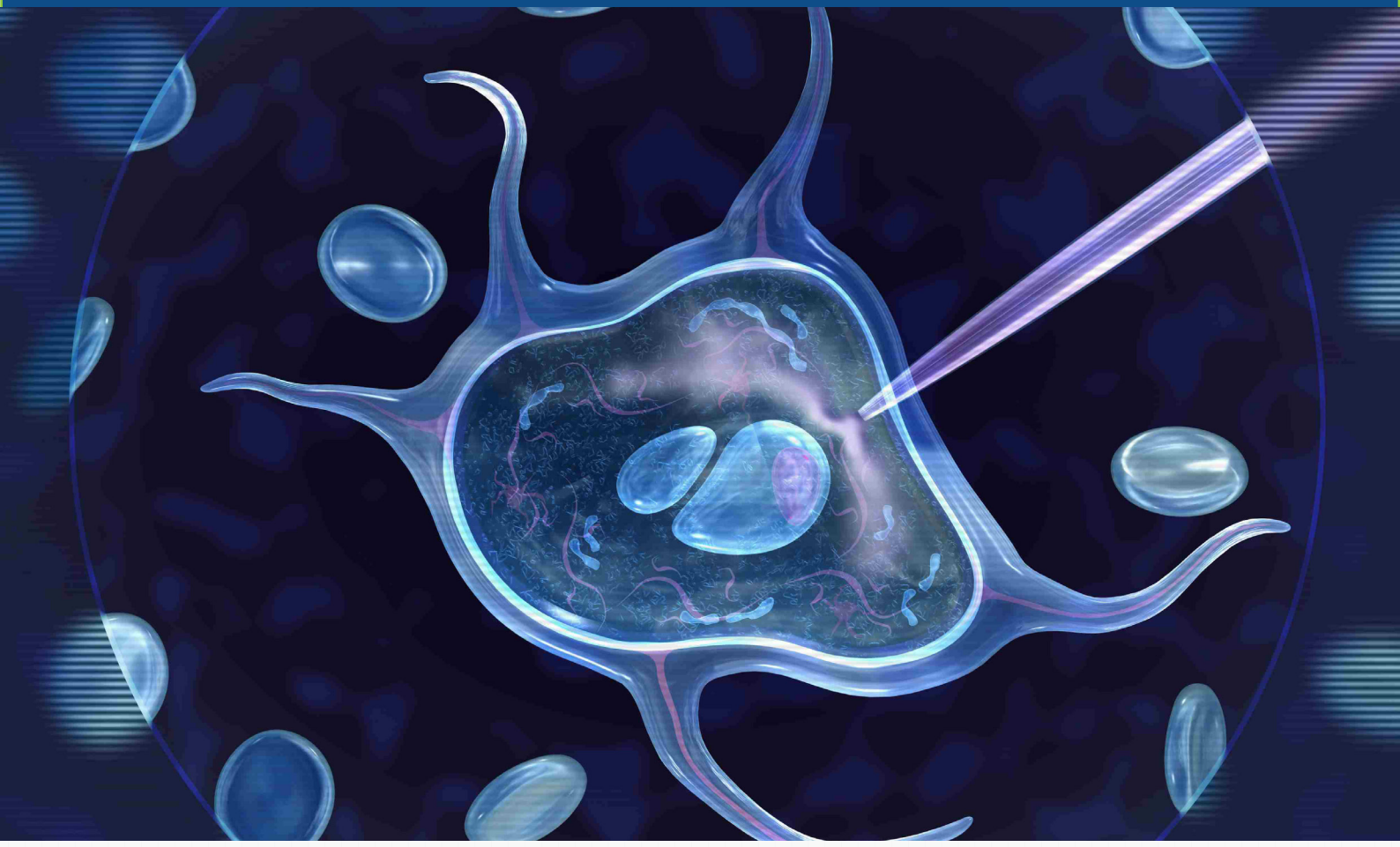
Tentative Program

4th International Conference on

Synthetic Biology and Tissue Engineering

October 18-19, 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

October 18-19, 2018 Rome, Italy

Program at a Glance

Day 1 October 18, 2018

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
	Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
		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)
Evening Sessions	**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, October 19, 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			
Evening Sessions	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)**

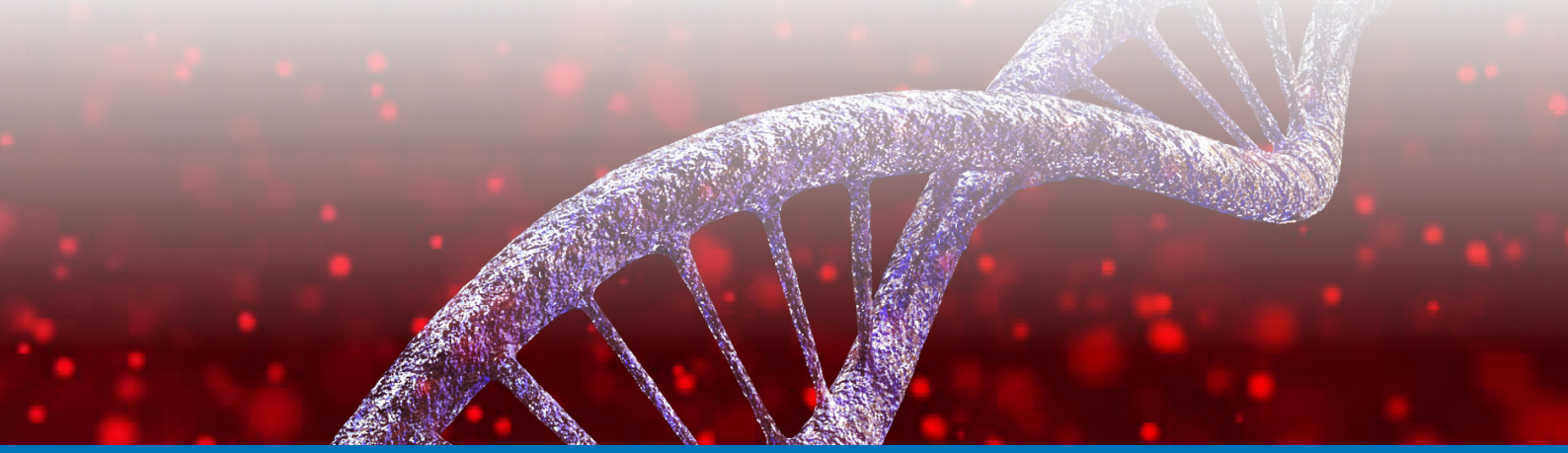
30 Speakers on **Day 3**

Awards & Closing Ceremony

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 Biotechnolgy
- 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/

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Glimpses of Synthetic Biology Conferences













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1050th Conference

Scientific Program

3rd International Conference on

Systems and Synthetic Biology

July 20-21, 2017 Munich, Germany



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Day 1 July 20, 2017

Registrations

Forum 12

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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

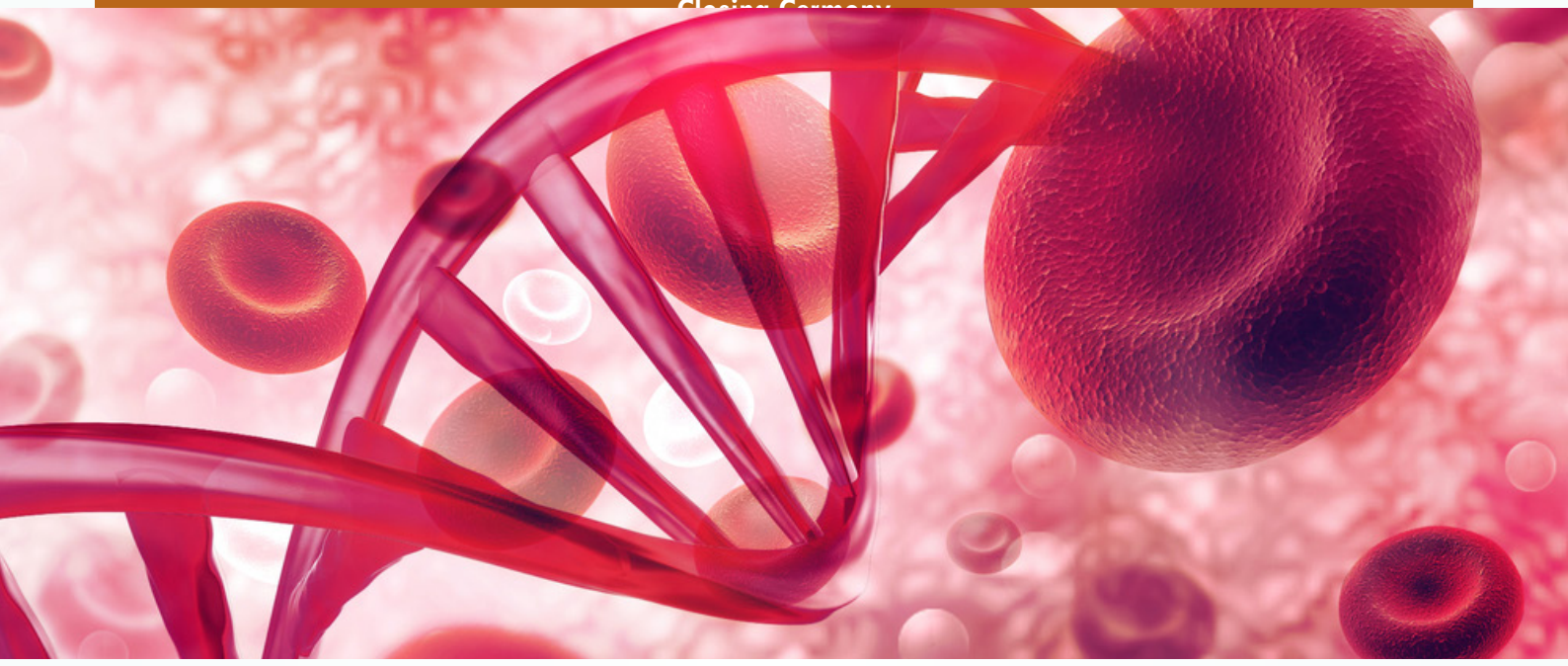
Qiang Yan, Virginia Commonwealth University, USA

Poster Presentations @ Meeting Halls

Networking & Refreshment Break

Panel Discussion

Closing Ceremony



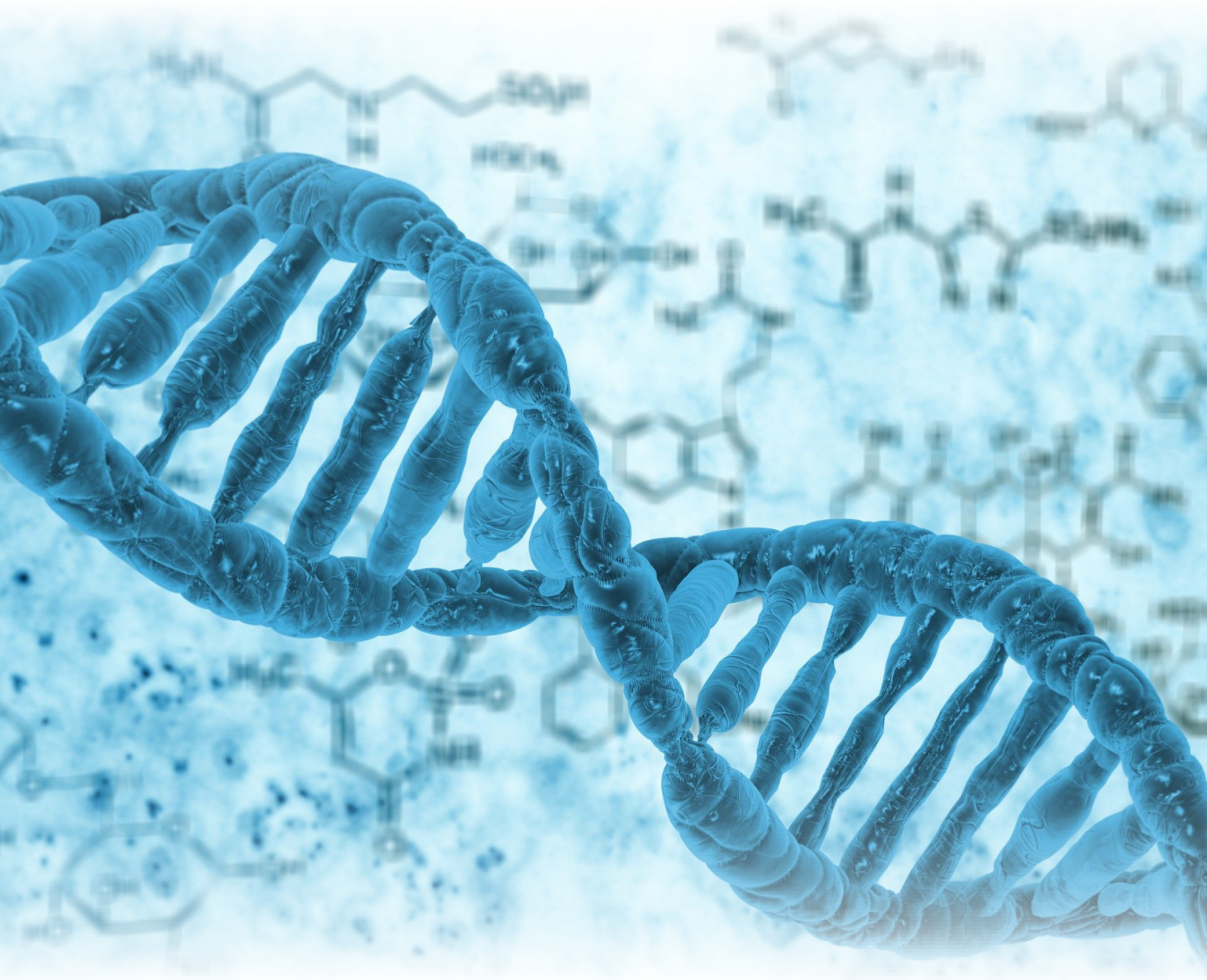
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621st Conference

Scientific Program

2nd International Conference on

Systems & Synthetic Biology

August 18-20, 2016 London, UK



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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 a-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 cellulovoran:* 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

OMICS International
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Scientific Program

International Conference on
Synthetic Biology

September 28-29, 2015 Houston, USA



OMICS International Conferences

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

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 Behesti 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: *In silico* 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