

GENERAL INFORMATION

DATE AND VENUE

Tuesday: January 24, 2012

DECHEMA-Haus
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/Germany

For directions to DECHEMA, please visit www.dechema.de/location

REGISTRATION

The conference documents will be available at the conference office on-site. In general there is no registration deadline as long as free capacity is available. Please register online at: www.dechema.de/DNA

If the event is cancelled by DECHEMA the fees paid will be refunded in full. Further rights of recourse against the organizer are excluded.

REGISTRATION FEE¹⁾

	Member ²⁾	Non-Member
Academia	EUR 90	EUR 105
Industry	EUR 140	EUR 155
Student ³⁾	EUR 50	EUR 65

1) No VAT requested acc. to § 4.22 UStG

2) Personal DECHEMA members, EFC/EFCE passport holders

3) Proof of status required

The conference ticket includes the book of abstracts, list of participants, meals and beverages during the breaks.

CONFERENCE OFFICE

DECHEMA e.V.
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www.dechema.de/DNA

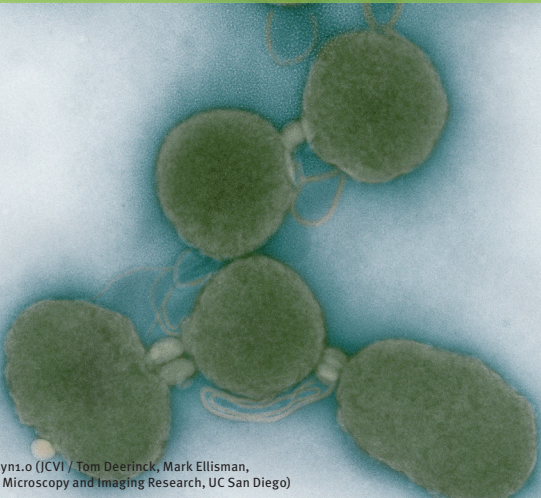
PROGRAMME

January 24, 2012

DECHEMA-Haus · Frankfurt am Main

Synthetic DNA: Writing with the Letters of Life

www.dechema.de/DNA


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National Center for Microscopy and Imaging Research, UC San Diego)

INVITATION / COMMITTEE

INVITATION

Synthetic DNA strands of megabasepair size are about to revolutionise biotechnology. Genes and gene clusters, even artificial chromosomes and viral and bacterial genomes can be synthesized today. The potential for biological research, biomedicine, and biotechnology appears to be boundless: tedious procedures of genetic engineering are becoming obsolete and the programming of cells, e.g. for the rational design of bio-synthetic pathways, is tremendously facilitated. Moreover, the de novo construction of complete micro-organisms – already technically feasible – should come within reach.

Pioneers of the field will present latest technological advances as well as the fascinating projects and perspectives.

SCIENTIFIC COMMITTEE

Frank Notka	GENEART AG, Regensburg/D
Karsten Schürle	DECHEMA e.V., Frankfurt am Main/D
Wilfried Weber	University of Freiburg/D
Wolfgang Wiechert	Forschungszentrum Jülich/D

PROGRAMME

Tuesday, 24 January 2012

- 10.30 **Welcome**
- 10.35 **KEYNOTE LECTURE I**
From gene synthesis to synthetic genomes – menu à la carte
 Ralf Wagner, Life Technologies, Regensburg/D
- 11.15 **Coffee Break**
- 11.35 **The advent of genematics: higher-order automation of nucleic acid synthesis and microbial evolution**
 Philippe Marlière, Heurisko USA Inc, Delaware/USA
- 12.05 **High fidelity oligo library synthesis and their applications**
 Emily Leproust, Agilent Technologies Inc, Santa Clara, CA/USA
- 12.35 **Lunch**
- 13.35 **KEYNOTE LECTURE II**
Programming cells
 Chris Voigt, MIT, Boston, MA/USA
- 14.15 **Rewriting bacterial gene clusters for antibiotic discovery**
 Eriko Takano, Groningen University/NL
- 14.45 **Tackling synthetic biology from an industry point of view: generating novel and known molecules by assembly of metabolic pathways on yeast artificial chromosomes**
 Jutta Heim, Evolva SA, Reinach/CH
- 15.15 **Coffee Break**
- 15.35 **Engineering healthy plants: Production of marine-type long-chain fatty acids in plants**
 Laurent Marty, BASF Plant Science Company GmbH, Ludwigshafen/D
- 16.05 **Synthetic viral genomes**
 Eckard Wimmer, Stony Brook University, NY/USA
- 16.35 **KEYNOTE LECTURE III**
Synthetic genomics and the construction of a synthetic bacterial cell
 John Glass, J Craig Venter Institute, Rockville, MD/USA
- 17.15 **End of Conference**

(as of October 31, 2011)