



FORUM Day 1: Conference – Towards a Synthetic Biology Agenda

Opening: Future Visions of Synthetic Biology

- 09.00 – 09.05 Opening by chair Melanie Peters (Director Rathenau Instituut)
- 09.05 – 09.15 Christopher Coenen (KIT) in conversation with Rinie van Est (Rathenau Instituut):
Why are we here today?
- 09.15 – 09.35 Koert van Mensvoort (Next Nature): *Recreating nature and society*
- 09.35 – 10.30 Four pitches on *future visions of synthetic biology* from:
- Marileen Dogterom (Bionanoscience TUDelft): *SynBio recreating life*
 - Vitor Martins dos Santos (Systems & Synthetic Biology WUR): *SynBio recreating industry*
 - Alfred Nordmann (Philosophy TUDarmstadt): *SynBio recreating biology*
 - Oron Catts (SymbioticA): *SynBio recreating society*

Workshop Round 1

1. *Synbio practices as RRI laboratory*

Convenors: Danka Radjenović; Dirk Stermerding; Virgil Rerimassie; Matti Sonck; Wieke Betten

Speakers/Panelists:

- Matti Sonck (Synenergene, iGEM/TU Delft)
- Virgil Rerimassie (Synenergene, iGEM/Rathenau Instituut)
- Alfred Nordmann (Philosophy, CompuGene/TU Darmstadt)
- Sulabha Sharma (Synbio/TU Darmstadt)

2. *Adaptive risk assessment in synthetic biology*

Convenors: Huib de Vriend; Markus Schmidt

Speakers/Panelists:

- Huib de Vriend (LIS consult)
- Kenneth Oye (Director MIT Program on Emerging Technologies, Massachusetts Institute of Technology)
- Markus Schmidt (Biofaction)
- Jaco Westra (RIVM: National Institute for Public Health and the Environment)

3. *Freedom and security in an age of synthetic biology: challenges, concerns, needs*

Convenors: Michele Garfinkel; Ineke Malsch; Christopher Coenen

Speakers/Panelists:

- Rik Bleijs (Biosecurity Office / Bureau Biosecurity RIVM)
- Oron Catts (Director of SymbioticA, The Centre of Excellence in Biological Arts, School of Anatomy, Physiology and Human Biology, The University of Western Australia)
- Michele Garfinkel (Programme Manager, Science Policy Programme, EMBO)
- Michael Liss (Manager of Molecular Biology Research and Development at Thermo Fisher Scientific, Regensburg)
- Kathryn Nixdorff (Senior biosecurity expert IANUS institute, TU Darmstadt)
- Alexander Murer (CEO/Chief Developer Briefcase Biotec)

Workshop Round 2

4. *Synthetic biology, culture and religion*

Convenors: Bernadette Bensaude-Vincent; Joachim Boldt; Ineke Malsch

Speakers/Panelists:

- Matthias Braun (Research Assistant, Chair of Systematic Theology II (Ethics), Friedrich-Alexander University Erlangen-Nürnberg)
- Dorothee Browaeys (Science writer and journalist, Université Paris 1 Panthéon Sorbonne and UP Magazine)
- Henk Jochemsen (Special chair of Christian Philosophy, Wageningen University and director of Prisma)
- Thierry Magnin (Rector of the Catholic University of Lyon and priest of the diocese of St. Etienne, Lyon)
- Hillie van de Streek (Director of Foundation for Christian Philosophy, Amersfoort)

5. *Advanced biotechnologies for a responsible bio-economy*

Convenors: Karsten Bolz; Matti Sonk; Wieke Betten; Michelle Rijnen; Dirk Stermerding

Speakers/Panelists:

- Michelle Rijnen (Athena Instituut, VU University Amsterdam)
- Jim Philp (OECD)
- Dorette Corbey (Dutch Sustainable Biomass Commission)
- Silvia Ribeiro (ETC Group)
- Federico Muffato (DIY biologist)
- Ibo van de Poel (TUDelft)
- Alfred Nordmann (TU Darmstadt)

6. *How to support RRI (in synthetic biology) through funding and science policy making?*

Convenors: Wolf-Michael Catenhusen; Christopher Coenen

Speakers/Panelists:

- Sven Panke (ETH Zürich, Bioprocess Laboratory D-BSSE; Chair of SYNENERGENE Science Forum)
- Harald König (Karlsruhe Institute of Technology ; lead SYNENERGENE's Research and Policy Platform)
- Annette Kremser (Project Management Jülich; coordinated ERASynBio)
- Phil Macnaghten (Communication, Philosophy and Technology: Centre for Integrative Development Dept. Social Sciences Wageningen University)
- Philip Shapira (Professor of Innovation Management and Policy with the Manchester Institute for Innovation Research at Manchester Business School; Professor of Public Policy at Georgia Institute of Technology, Atlanta)
- Armin Grunwald (Karlsruhe Institute of Technology; Director of KIT's Institute for Technology Assessment and Systems Analysis, KIT-ITAS)

Closing debate: Towards Responsible Research & Innovation in Synthetic Biology

16.00 – 16.05 Introduction by Melanie Peters

16.05 – 16.30 Arie Rip: *Challenges for responsible research and innovation*

16.30 – 17.45 Debating *RRI in SynBio*

Moderators: Melanie Peters & Armin Grunwald (KIT)

- Bernadette Bensaude-Vincent
- Jane Calvert
- Kenneth Oye
- Sven Panke
- Sascha Pohflepp
- Arie Rip
- Jim Thomas

17.45 – 18.00 Closing the day: Christopher Coenen in conversation with Dirk Stermerding

FORUM Day 2: Synthetic Biology on Stage

Saturday Afternoon

13.00 – 14.15

Science café: Synbio vaccine engineering and its societal implications

Convened by Biofaction with partners from H2020 project MYCOSYNVAC

Speakers/Panelists:

- Vitor Martins dos Santos (Wageningen University)
- Alicia Broto Hernandez (Imperial College London)
- Markus Schmidt (Biofaction)

14.30 – 15.30

SynBio futures on stage: discover how you think

Convenor: Frank Kupper

16.00 – 18.00

Civil Society meets Science: Debate

Convenors: Virgil Rerimassie; Rüdiger Trojok; Jim Thomas; Antonina Khodzhaeva; Kate Miller

Speakers/Panelists:

- Jane Calvert (University of Edinburgh)
- Niclas Hällström (What Next Institute)
- Steen Rasmussen (SDU: University of Southern Denmark)
- Octavio Rosas Landa (Assembly of Environmentally Affected Peoples)
- Karolina Sobecka (Flightphase)
- Christine von Weiszacker (ECOROPA)
- Christian Fleck (Wageningen UR)
- Mary Ward (Counter Culture Labs)
- Jim Thomas (ETCgroup)
- Rüdiger Trojok (ITAS-KIT)

Saturday Evening (at *Mediamatic*)

20.00 – 22.00

Evening programme with BIO-FICTION Amsterdam

22.00 Final Forum evening programme: meet your RRI partners!