Contents

Editorial: Ambivalences in Societal and Philosophical Dimensions of Synthetic Biology ................................................. 1
Kristin Hagen, Margret Engelhard and Georg Toepfer

The Synthetic Nature of Biology ........................................... 9
Carlos G. Acevedo-Rocha

Making-of Synthetic Biology: The European CyanoFactory Research Consortium ........................................... 55
Röbbe Wünschiers

Synthetic Biology for Space Exploration: Promises and Societal Implications .......................................................... 73
Cyprien N. Verseux, Ivan G. Paulino-Lima, Mickael Baqué,
Daniela Billi and Lynn J. Rothschild

“First Species Whose Parent Is a Computer”—Synthetic Biology as Technoscience, Colonizing Futures, and the Problem of the Digital . . . 101
Martin Müller

“Some Kind of Genetic Engineering… Only One Step Further”— Public Perceptions of Synthetic Biology in Austria ............... 115
Walburg Steurer

Synthetic Biology in the Press .............................................. 141
Mirko Ancillotti and Stefan Eriksson

Let’s Talk About… Synthetic Biology—Emerging Technologies and the Public .................................................. 157
Stefanie B. Seitz
Public Engagement in Synthetic Biology: “Experts”, “Diplomats” and the Creativity of “Idiots” ................................. 177
Britt Wray

Early Engagement with Synthetic Biology in the Netherlands—Initiatives by the Rathenau Instituut .................. 199
Virgil Rerimassie

A Critical Participatory Approach to the Evaluation of Synthetic Biology .......................................................... 215
Inna Kouper

Synthetic Biology—Playing Games? ......................................................... 243
Leona Litterst

Metaphors of Life: Reflections on Metaphors in the Debate on Synthetic Biology ........................................... 251
Daniel Falkner

Debasement of Life? A Critical Review of Some Conceptual and Ethical Objections to Synthetic Biology .................. 267
Tobias Eichinger

Engineers of Life? A Critical Examination of the Concept of Life in the Debate on Synthetic Biology .................... 275
Johannes Steizinger

Synthetic Biology and the Argument from Continuity with Established Technologies ................................. 293
Andreas Christiansen

Synthetic Biology Between Engineering and Natural Science. A Hermeneutic Methodology for Laboratory Research Practice .... 313
Michael Funk

Epistemological Implications of Synthetic Biology: A Heideggerian Perspective ........................................... 325
Martin G. Weiss
Ambivalences of Creating Life
Societal and Philosophical Dimensions of Synthetic Biology
Hagen, K.; Engelhard, M.; Toepfer, G. (Eds.)
2016, XVII, 335 p., Hardcover
ISBN: 978-3-319-21087-2