

Studies in History and Philosophy of Biological and Biomedical Sciences

VOLUME 44 Issue 2 June 2013

Guest Editors:

Gabriele Gramelsberger, Tarja Knuutila and Axel Gelfert

Special Issue: Philosophical Perspectives on Synthetic Biology

| | | |
|---|-----|---|
| GABRIELE GRAMELSBERGER, TARJA KNUUTILA, AXEL GELFERT | 119 | Philosophical perspectives on synthetic biology |
| BERNADETTE BENSUADE VINCENT | 122 | Discipline-building in synthetic biology |
| KAREN KASTENHOFER | 130 | Two sides of the same coin? The (techno)epistemic cultures of systems and synthetic biology |
| AXEL GELFERT | 141 | Synthetic biology between technoscience and thing knowledge |
| GABRIELE GRAMELSBERGER | 150 | The simulation approach in synthetic biology |
| TARJA KNUUTILA, ANDREA LOETTIGERS | 158 | Basic science through engineering? Synthetic modeling and the idea of biology-inspired engineering |
| SARA GREEN | 170 | When one model is not enough: Combining epistemic tools in systems biology |
| WERNER KOGGE, MICHAEL RICHTER | 181 | Synthetic biology and its alternatives. Descartes, Kant and the idea of engineering biological machines |
| ADRIAN MACKENZIE | 190 | Synthetic biology and the technicity of biofuels |
| STEPHAN GÜTTINGER | 199 | Creating parts that allow for rational design: Synthetic biology and the problem of context-sensitivity |
| GRY OFTEDAL, VELI-PEKKA PARKKINEN | 208 | Synthetic biology and genetic causation |
| KATHRIN FRIEDRICH | 217 | Digital 'faces' of synthetic biology |
| NINA SAMUEL | 225 | Images as tools. On visual epistemic practices in the biological sciences |
| Essay Reviews | | |
| PHILLIP R. SLOAN | 237 | The species problem and history |
| NEERAJA SANKARAN | 242 | Breaking with the self: Can continuity in immunology succeed? |

Abstracted/indexed in: ASSIA, BIOSIS, *America: History and Life*, *Current Contents/Arts & Humanities*, *Current Contents/Social & Behavioral Sciences*, *Current Abstracts*, *Historical Abstracts*, EMBASE, MLA, *International Bibliography*, PubMed, MEDLINE, *Sociological Abstracts*, *Zentralblatt MATH*. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®.



<http://www.elsevier.com/locate/shpsc>

ISSN 1369-8486
44(2) 119–246 (2013)