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fields of biology with the potential to revolutionize in this chapter we analyze the current production of bioartefacts derived from synthetic biology and their ethical and societal consequences in addition to the socio economic

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than ignorance is at play, but that the research program is intentionally ambiguous: by exploiting this ambiguity between the universality claim and the standardization claim minimal genome research can portray itself as relevant, both on the level of theory development and on the level of practical applications.

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the potential to revolutionize the way we do biotechnology today. By applying the toolbox of engineering disciplines to biology, a whole set of potential applications become possible ranging very widely across scientific and engineering disciplines. Some of the potential benefits of synthetic biology, such as the

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development of low-cost drugs or the production of chemicals and energy by engineered bacteria are enormous. There are, however, also potential and perceived risks due to deliberate or accidental damage. Also, ethical issues of synthetic biology just start being explored, with hardly any ethicists specifically focusing on

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the area of synthetic biology. This book will be the first of its kind focusing particularly on the safety, security and ethical concerns and other relevant societal aspects of this new emerging field. The foreseen impact of this book will be to stimulate a debate on these societal issues at an early stage. Past experiences,

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especially in the field of GM-crops and stem cells, have shown the importance of an early societal debate. The community and informed stakeholders recognize this need, but up to now discussions are fragmentary. This book will be the first comprehensive overview on relevant societal issues of synthetic biology, setting

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Assessing synthetic biology from a societal
and ethical perspective is not only a matter

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of determining possible harms and benefits of synthetic biology applications. Synthetic biology also incorporates a specific technoscientific understanding of its research agenda and its research objects that has philosophical and ethical implications. This edited volume sets out to explore and evaluate these synthetic

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biology worldviews and it proposes appropriate governance measures. In addition, legal challenges are discussed.

This open access edited book provides new thinking on scientific identity formation. It thoroughly interrogates the concepts of community and identity, including both

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historical and contemporaneous analyses of several scientific fields. Chapters examine whether, and how, today 's scientific identities and communities are subject to fundamental changes, reacting to tangible shifts in research funding as well as more intangible transformations in our society 's understanding and

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expectations of technoscience. In so doing, this book reinvigorates the concept of scientific community. Readers will discover empirical analyses of newly emerging fields such as synthetic biology, systems biology and nanotechnology, and accounts of the evolution of theoretical conceptions of scientific identity and

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community. With inspiring examples of technoscientific identity work and community constellations, along with thought-provoking hypotheses and discussion, the work has a broad appeal. Those involved in science governance will benefit particularly from this book, and it has much to offer those in scholarly fields

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including sociology of science, science studies, philosophy of science and history of science, as well as teachers of science and scientists themselves.

A Simpler Life approaches the developing field of synthetic biology by focusing on the experimental and institutional lives of

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practitioners in two labs at Princeton University. It highlights the distance between hyped technoscience and the more plodding and entrenched aspects of academic research. Talia Dan-Cohen follows practitioners as they wrestle with experiments, attempt to publish research findings, and navigate the ins and outs of

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Academic careers. Dan-Cohen foregrounds the practices and rationalities of these pursuits that give both researchers' lives and synthetic life their distinctive contemporary forms. Rather than draw attention to avowed methodology, *A Simpler Life* investigates some of the more subtle and tectonic practices that bring

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knowledge, doubt, and technological intervention into new configurations. In so doing, the book sheds light on the more general conditions of contemporary academic technoscience.

"Synthetic biology" is the label of a new technoscientific field with many different

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facets and agendas. One common aim is to "create life", primarily by using engineering principles to design and modify biological systems for human use. In a wider context, the topic has become one of the big cases in the legitimization processes associated with the political agenda to solve global problems with the

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aid of (bio-)technological innovation.

Conceptual-level and meta-level analyses are needed: we should sort out conceptual ambiguities to agree on what we talk about, and we need to spell out agendas to see the disagreements clearly. The book is based on the interdisciplinary summer school "Analyzing the societal dimensions

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of synthetic biology", which took place in Berlin in September 2014. The contributions address controversial discussions around the philosophical examination, public perception, moral evaluation and governance of synthetic biology.

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Synthetic Biology is already an object of intensive debate. However, to a great extent the discussion to date has been concerned with fundamental ethical, religious and philosophical questions. By contrast, based on an investigation of the field ' s scientific and technological character, this book focuses on new

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functionalities provided by synthetic biology and explores the associated opportunities and risks. Following an introduction to the subject and a discussion of the most central paradigms and methodologies, the book provides an overview of the structure of this field of science and technology. It informs the

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reader about the current stage of development, as well as topical problems and potential opportunities in important fields of application. But not only the science itself is in focus. In order to investigate its broader impact, ecological as well as ethical implications will be considered, paving the way for a discussion

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of responsibilities in the context of a field at a transitional crossroads between basic and applied science. In closing, the requirements for a suitable regulatory framework are discussed. The book is intended as a source of information and orientation for researchers, students and practitioners in the natural sciences and

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technology assessment; for members of scientific and technological, governmental and funding institutions; and for members of the general public interested in essential information on the current status, prospects and implications of synthetic biology.

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The areas of personal genomics and citizen science draw on – and bring together – different cultures of producing and managing knowledge and meaning. They also cross local and global boundaries, are subjects and objects of transformation and mobility of research practices, evaluation and multi-stakeholder

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groups. Thirdly, they draw on logics of 'convergence': new links between, and new kinds of, stakeholders, spaces, knowledge, practices, challenges and opportunities. This themed collection of essays from nationally and internationally leading scholars and commentators advances and widens current debates in

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Science and Technology Studies and in
Science Policy concerning ‘ converging
technologies ’ by complementing the
customary focus on technical aspirations
for convergence with the analysis of the
practices and logics of scientific, social and
cultural knowledge production that
constitute contemporary technoscience. In

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case studies from across the globe, contributors discuss the ways in which science and social order are linked in areas such as direct-to consumer genetic testing and do-it-yourself biotechnologies.

Organised into thematic sections,
' Knowing New Biotechnologies ' explores: • ways of understanding the

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Analysis of dynamics and logics of convergences in emergent biotechnologies • governance and regulatory issues around technoscientific convergences • democratic aspects of converging technologies – lay involvement in scientific research and the co-production of biotechnology and social and cultural

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The key objective of this volume is to allow philosophy students and early-stage researchers to become practicing philosophers in technoscientific settings. Zwart focuses on the methodological issue of how to practice continental philosophy

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of technoscience today. This text draws upon continental authors such as Hegel, Engels, Heidegger, Bachelard and Lacan (and their fields of dialectics, phenomenology and psychoanalysis) in developing a coherent message around the technicity of science or rather, “ technoscience ” . Within technoscience,

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the focus will be on recent developments in life sciences research, such as genomics, post-genomics, synthetic biology and global ecology. This book uniquely presents continental perspectives that tend to be underrepresented in mainstream philosophy of science, yet entail crucial insights for coming to terms with

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technoscience as it is evolving on a global
scale today. This is an open access book.

What kind of stuff is the world made of?
What is the nature or substance of things?
These are ontological questions, and they
are usually answered with respect to the
objects of science. The objects of

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technoscience tell a different story that concerns the power, promise and potential of things - not what they are but what they can be. Seventeen scholars from history and philosophy of science, epistemology, social anthropology, cultural studies and ethics each explore a research object in its technological setting, ranging from carbon

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to cardboard, from arctic ice cores to nuclear waste, from wetlands to GMO seeds, from fuel cells to the great Pacific garbage patch. Together they offer fascinating stories and novel analytic concepts, all the while opening up a space for reflecting on the specific character of technoscientific objects. With their

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promise of sustainable innovation and a technologically transformed future, these objects are highly charged with values and design expectations. By clarifying their mode of existence, we are learning to come to terms more generally with the furniture of the technoscientific world - where, for example, the 'dead matter' of

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classical physics is becoming the 'smart material' of emerging and converging technologies.

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