

Ownership and Sharing: Setting the Patent Framework for Innovation in Synthetic Biology

A Workshop under the Auspices of the
Forum on Synthetic Biology
of the
U.S. National Academy of Sciences'
Committee on Science, Technology, and Law

Ground Floor Lecture Theatre
Tanaka Building
Imperial College London Business School
Exhibition Road
London SW7 2BX

Agenda

Monday, 15 July 2013

8:00 Continental Breakfast

8:30 Welcome and Introduction

Richard I. Kitney, Imperial College London
Drew Endy,* Stanford University

8:40 The Evolving Bioeconomy

Moderator: Vicki L. Chandler,* Gordon and Betty Moore Foundation

Speakers: Robert Wells, formerly Organisation for Economic Co-operation and
Development
Rob Carlson,* Biodesic

9:10 Discussion with Participants

9:30 How Synthetic Biology Differs from Genetic Engineering and Biotechnology

Moderator: Richard A. Johnson,* GlobalHelix LLC

Speaker: Drew Endy,* Stanford University

9:50 Discussion with Participants

10:00 The Patent Landscape: Recent Decisions from the U.S. Supreme Court

Moderator: Claire Marris,* King's College London

Speaker: Rochelle C. Dreyfuss, New York University Law School

- 10:25 Commentators:
Trevor Cook, Bird & Bird LLP
Sarah Lau, Kilburn & Strode LLP
- 10:45 Discussion with Participants
- 11:00 Break
- 11:15 The Public Policy Imperative of Correct Patent Policy for the Life Sciences
Moderator: R. Alta Charo, * University of Wisconsin, Madison
Speaker: Daniel J. Kevles, Yale University
- 11:45 Commentators:
Jane Calvert, University of Edinburgh
Nikolas Rose, King's College London
- 12:10 Discussion with Participants
- 12:30 Lunch
- 1:45: How Synthetic Biology Challenges Current Patenting/Ownership Frameworks
Moderator: Anne-Marie Mazza, U.S. National Academy of Sciences
Speaker: Linda Kahl, Stanford University
- 2:15 Discussion with Participants
- 2:30 Case Study: The BioBrick Public Agreement – Access, Transfers, Use, and Liability
Moderator: Richard I. Kitney, Imperial College London
Speakers: Drew Endy, * Stanford University
Reshma Shetty, Gingko Bioworks
Randy Rettberg, iGEM Foundation
Joanne Kamens, Addgene
Trevor Cook, Bird & Bird LLP
Jon Wilkinson, Imperial Innovations
- 4:00 Discussion with Participants
- 4:45 Adjourn

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Tuesday, 16 July 2013

8:30 Continental Breakfast

9:00 Welcome

Linda Kahl, Stanford University
Richard I. Kitney, Imperial College London

9:15 Ownership and Innovation: Case Studies from Industry

Moderator: Paul Freemont, Imperial College London

Speakers: Lionel Clarke, Shell Global Solutions (Open Source)
Richard A. Johnson,* GlobalHelix LLC (Closed Source)
Stephen Laderman, Agilent Laboratories (Freedom to Operate)

10:15 Discussion with Participants

10:30 Creating the Right Ownership/Sharing/Access Environment for Synthetic Biology: A
Moderated Discussion with Participants

Moderators: Drew Endy,* Stanford University
Linda Kahl, Stanford University
Richard I. Kitney, Imperial College London

12:00 Adjourn

*Member of the U.S. National Academy of Sciences'
Forum on Synthetic Biology

This workshop is sponsored by the Alfred P. Sloan Foundation, British Consulate General San Francisco, and Imperial College London. It is inspired by the 2011-12 collaboration on synthetic biology by the national sciences and engineering academies of the United States, U.K., and China.