

User Guide

User Guide Contents

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World Scientific



World Scientific Publishing Co Pte Ltd was established in 1981. Today, it has offices in New Jersey, London, Munich, Geneva, Tokyo, Hong Kong, Taipei, Beijing, Shanghai, Tianjin and Chennai.

In about 3 decades, it has established itself as one of the leading academic and professional publishers in the world, and the largest international scientific publisher in the Asia-Pacific region.

In 1991, we signed a memorandum of agreement with the Nobel Foundation to publish the entire series of Nobel Lectures in all subjects, covering the lecture from 1901 to 2005. More recently, we extended the agreement to include the lectures from 2006 to 2010.

Today, we continue to work with various Nobel Prize winners and other influential scientists to publish the latest and most exciting content in Science, Technology and Medicine.

Homepage

The screenshot shows the World Scientific homepage. At the top, the logo 'World Scientific Connecting Great Minds' is on the left. On the right, it says 'brought to you by WSPC' followed by 'Search', 'My Cart', and 'Sign in' links. Below the logo is a navigation bar with 'Subject', 'Journals', 'Books', 'E-Products', 'Partner With Us', 'Open Access', and 'About Us'. A green box highlights 'Journals' and 'Books'. A green arrow points from the text 'You can browse for journals/ books recommendations or browse according to subjects' to this box. Another green arrow points from the text 'You can search for specific books with filters and advance search features' to the 'Search' link. A third green arrow points from the text 'Sign in for additional benefits' to the 'Sign in' link. The main banner features a congratulatory message for Giovanni Fazio, Editor-in-Chief of the Journal of Astronomical Instrumentation and The Encyclopedia of Cosmology. Below the banner is a 'WHAT'S NEW' section with three book covers: 'Linear Algebra and Optimization with Applications to Machine Learning', 'From Classical Mechanics to Quantum Field Theory, A Tutorial', and 'You Can Be the Next Einstein'. To the right is a video player titled 'World Scientific New Website Features 2...' showing a grid of books and text 'Publish 600 new titles 140 journals every year'. Below the video player is a language selector '中文(普通话) | Deutsche Version'. At the bottom right is a 'WorldSciNet' box with the text 'ebooks • ejournals • databases', 'Check out our ebooks and ejournals packages and options', and a 'Find out more' button. On the bottom left, under 'PRESS RELEASES', is a list of five items.

You can browse for journals/ books recommendations or browse according to subjects

You can search for specific books with filters and advance search features

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Linear Algebra and Optimization with Applications to Machine Learning
Volume I: Linear Algebra for Computer Vision, Robotics, and Machine Learning
by Jean Gallier & Jocelyn Quaintance

From Classical Mechanics to Quantum Field Theory, A Tutorial
by Manuel Asorey, Elisa Ercolessi & Valter Moretti

You Can Be the Next Einstein
by George Jaroszkiewicz

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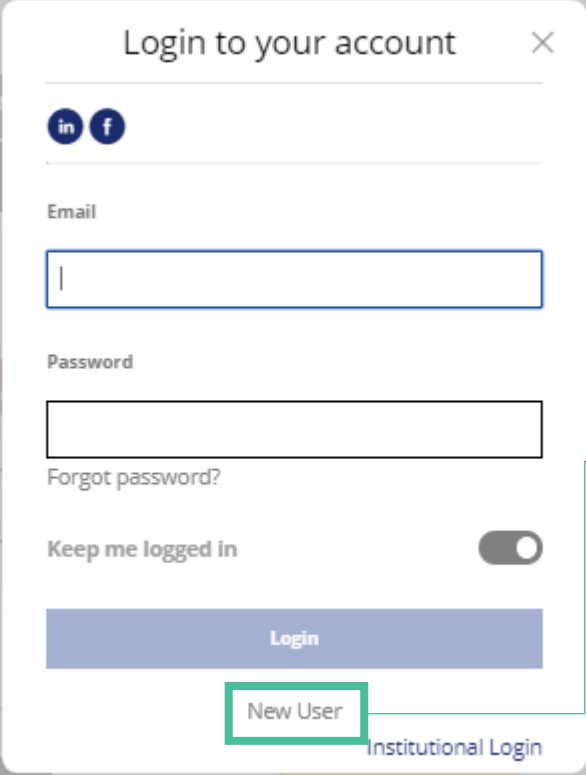
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- Women's History Month: Meet Dr Nina Shapiro
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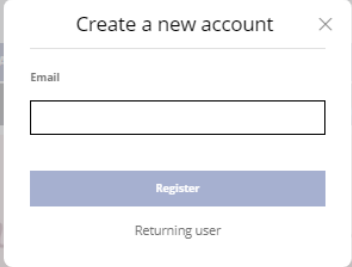
Signing up/ Logging in

You can log in as an individual (through LinkedIn, Facebook or Email) or through an organization



A white dialog box titled "Login to your account" with a close button (X) in the top right corner. It features social login icons for LinkedIn and Facebook, followed by input fields for "Email" and "Password". Below the password field is a "Forgot password?" link. A "Keep me logged in" toggle switch is checked. At the bottom, there is a blue "Login" button and a "New User" button highlighted with a green border. Below the "New User" button is a link for "Institutional Login".

New users can sign up with the "New User" option at the bottom



A white dialog box titled "Create a new account" with a close button (X) in the top right corner. It features an input field for "Email" and a blue "Register" button. Below the "Register" button is a link for "Returning user".

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Anywhere

Citation

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Click here to search for books in general or switch to search for specific books/journals based on citations

Click here for more advanced search

Anywhere ▾

synthet

Advanced Search

[Remove]All: synthetic biology (articlesChapters - 20906)

Shanghai WTO Affairs Consultation Center

Senthi, T

CENTI, Gabriele

State Key Laboratory of Synthetical Automation for Process Industries

Giovanni Fazio

Search bar has predictive features to ease search

Homepage |

Signing up/
Logging in |

Search
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Book
Content
Feature |

E-reader |

Journal
Content
Feature |

Navigating
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Advanced Search

The screenshot shows the 'Advanced Search' interface. At the top, there are three tabs: 'Advanced Search', 'Search History', and 'Saved Searches'. The 'Saved Searches' tab is highlighted with a green box, and an arrow points to it with the text 'Only available for user who signed in'. Below the tabs, there is a search bar with a dropdown menu set to 'Anywhere' (highlighted with a green box). To the left of the search bar, a sidebar lists search fields: 'Anywhere', 'Title', 'Author', 'Keywords', 'Abstract', and 'Affiliation'. The 'Anywhere' field is selected. Below the search bar, there is a text input field for 'Published in' with the example 'e.g. Journal of Theoretical Biology'. Below that, there is a 'Publication Date' section with three options: 'All dates' (selected), 'Last' (with a 'Select' dropdown), and 'Custom range' (with four date pickers for Month and Year). At the bottom right of the search area is a 'Search' button. On the right side of the interface, there is a 'SEARCH TIPS' section with a green header. An arrow points from the 'SEARCH TIPS' header to the text 'Tips provided to ease searching for specific books'. The search tips section contains four sub-sections: 'Boolean searches', 'Searching for authors', 'Searching for phrases', and 'Wildcards', each with a brief explanation of the search functionality. At the bottom of the page, there is a navigation bar with seven items: 'Homepage', 'Signing up/ Logging in', 'Search Features', 'Book Content Feature', 'E-reader', 'Journal Content Feature', and 'Navigating account'. Each item has a corresponding colored dot below it.

Advanced Search Search History **Saved Searches** Only available for user who signed in

Anywhere Enter Search term +

Published in e.g. Journal of Theoretical Biology

Publication Date ☒ All dates ☐ Last Select ☐ Custom range Month Year Month Year

Advanced Search

SEARCH TIPS Tips provided to ease searching for specific books

Boolean searches
You can use the Boolean Operators AND, OR and NOT within search fields. By default an AND relationship is assumed between search terms unless another operator is specified.

Searching for authors
To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

Searching for phrases
Enclose your search term with quotation marks to search for an exact match of that phrase. Without quotation marks, articles including all of the search terms somewhere in the article will be listed. For example searching for "civil war" will find articles containing that exact phrase.

Wildcards
Use a question mark (?) in a search term to represent any one character and use an asterisk (*) to represent zero or more characters. For example, searching for Europe* will find results containing Europe and European. Wildcards cannot be used at the start of a search term or when searching for phrases in quotes.

DOIs
Search for DOIs using the format 10.3366/code.2016.0000 (do not add http://dx.doi.org/).

Navigating Search

The screenshot shows the World Scientific search interface. The top navigation bar includes 'Subject', 'Journals', and 'Books'. The search bar contains 'synthetic biology'. The 'Advanced Search' button is visible. The 'REFINE SEARCH' panel is open, showing options for 'Anywhere', 'Enter Search term', and 'Publication Date'. The 'Narrow Results' panel on the left lists 'Publication Type' (Journals and Books: 20908, Books: 13682, Journals: 7226) and 'Article Type' (Chapter Item: 12286, Research Article: 6153, Back Matter: 777, Front Matter: 616, Rapid Communication: 472). The 'Articles/Chapters' section shows results for 'synthetic biology' with a 'REFINE SEARCH' button. The 'Books Titles' section shows results for 'Modelling Synthetic Biology Systems' with a 'Follow results' button. The 'Sort results' dropdown is set to 'RELEVANCE'.

Click here to save your searches and receive alerts for new content matching your search criteria.

Refine your search based on advanced search and additional search terms

Click here if you are looking for book titles with the specific search term

Click here to filter search based on Publication Type, Article Type, Publication Date, Author, Publications, keywords or subjects

Sort results according to relevance or date

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Synthetic Biology
A Lab Manual

https://doi.org/10.1142/9061 | June 2014
Pages: 204
By (author): Josefine Liljeruhm (Uppsala University, Sweden), Erik Gullberg (Uppsala University, Sweden) and Anthony C Forster (Uppsala University, Sweden)

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Description Chapters Reviews Authors Supplementary

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Synthetic Biology: A Lab Manual is the first manual for laboratory work in the new and rapidly expanding field of synthetic biology. Aimed at non-specialists, it details protocols central to synthetic biology in both education and research. In addition, it provides all the information that teachers and students from high schools and tertiary institutions need for a colorful lab course in bacterial synthetic biology using chromoproteins and designer antisense RNAs. As a bonus, practical material is provided for students of the annual International Genetically Engineered Machine (iGEM) competition. The manual is based upon a highly successful course at Sweden's Uppsala University and is coauthored by one of the pioneers of synthetic biology and two bioengineering postgraduate students.

An inspiring foreword is written by another pioneer in the field, Harvard's George Church:
"Synthetic biology is to early recombinant DNA as a genome is to a gene. Is there anything that SynBio will not impact? There was no doubt that the field of SynBio needed 'A Lab Manual' such as the one that you now hold in your hands."

Transcription and translation are coupled in bacteria.

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Book Content Feature

Readership: Students and researchers in biotechnology, cell/molecular biology and genetics.

We recommend

Physics of Emergence and Organization
Ignazio Licata et al., World Scientific, 2008

A Manual for Primary Human Cell Culture
Jan-Thorsten Schantz et al., World Scientific, 2004

Peregrinations from Physics to Phylogeny
Kok Khoo Phua et al., World Scientific, 2016

Mathematical Analysis for Engineers
Bernard Dacorogna et al., World Scientific, 2012

Modern Applications of Automata Theory
Deepak D'Souza et al., World Scientific, 2012

All It Takes Is Vision
IEEE Pulse, 2016

All It Takes Is Vision: Synthetic Biology Opens the Doors to Vast Possibilities:
'Ideas Just Pop Into Your Head!'.
IEEE Pulse

Synthetic Biology
Ting Xia, IEEE PULSE

Genomics and synthetic biology of traditional Chinese medicine
CHEN Shi lin;ZHU Xiao-xuan;LI Chun-fang;WANG Yong;YAO Hui;SUN
Chao;SONG Jing-yuan, F5000, 2012

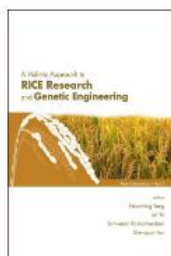
Survey and trial excavation at Church Hill, Penmaen, Swansea
Evans et al., Studia Celtica, 2010

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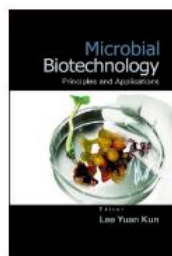
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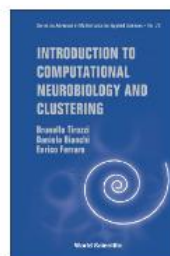
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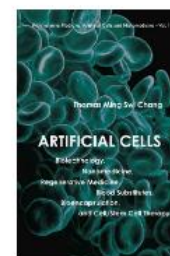
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Accessing document

The screenshot shows a document page with a header for Anthony L. Forster. Below the header are tabs for Description, Chapters, Reviews, Authors, and Supplementary. The 'Chapters' tab is selected. A message states 'You have access to this ebook'. A 'Free Access' button is highlighted. The document title is 'FRONT MATTER', with page range 'i-xxi' and a DOI link. A 'Preview Abstract' button is highlighted. On the right, 'Abstract' and 'PDF' links are shown. Below, a section for '1: Introduction' is shown with page range '1-6' and a DOI link. Another 'Preview Abstract' button is highlighted. On the far right, 'Abstract' and 'PDF' links are shown again. Annotations include a box on the left explaining access types and arrows pointing to specific buttons and links with explanatory text.

There are 3 types of access:

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Click here to access the e-reader for the document

E-reader

Click here for options to navigate around the document

Click to adjust reading format and flow

Click here to search for terms within document

Click here to download document in pdf format
(Note: Not all books can be downloaded)

The screenshot displays the E-reader interface. On the left, the book cover for "SYNTHETIC BIOLOGY: A Lab Manual" by Josefine Liljeruhm, Erik Gullberg, and Anthony C. Forster is shown. Below the cover, the book title and authors are listed, along with a DOI link, ISBN, eISBN, page count, and chapter information. The main area shows the first page of the document, titled "1 Introduction". The right sidebar contains a search bar, a download button, and a "Save for offline reading" option. A list of steps to view the document offline is provided on the right.

View in website PDF Page 1 / 6

INFO OUTLINE MATERIALS NOTES LINKS

SYNTHETIC BIOLOGY
A Lab Manual
Josefine Liljeruhm
Erik Gullberg
Anthony C. Forster

BOOK
Synthetic Biology
Josefine Liljeruhm, Erik Gullberg and Anthony C. Forster

CITE

<https://doi.org/10.1142/9061>

ISBN: 9789814579544

eISBN: 9789814579551

Pages: 204

CHAPTER
1
Introduction

https://doi.org/10.1142/9789814579551_0001

1
Introduction

WHAT IS SYNTHETIC BIOLOGY, EXACTLY?

You may know it when you see it, but how would you define it? Synthetic biology is undoubtedly a new, rapidly growing field that is captivating students and researchers alike. Yet, like life itself, synthetic biology is notoriously hard to define. Though the term "synthetic biology" was coined a century ago, its use only came into vogue one decade ago. This "renaissance" cannot be attributed to any single breakthrough or publication, so why did it occur? How does synthetic biology differ from, for example, the older field of biotechnology that encompasses DNA cloning, the polymerase chain reaction (PCR), monoclonal antibodies and protein overexpression? Engineers may emphasize "the development of foundational technologies that make the design and

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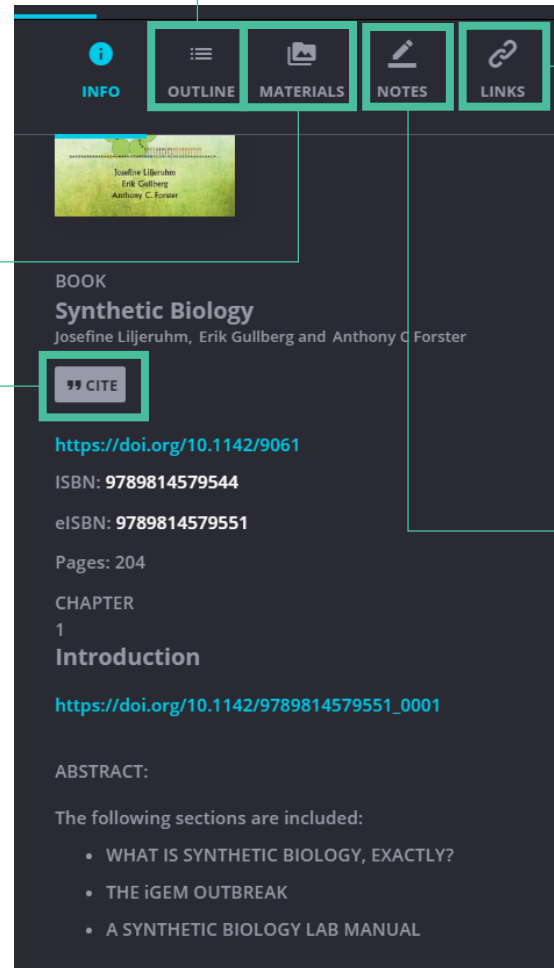
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Synthetic Biology — A Primer

Geoff Baldwin (Imperial College London, UK), Travis Bayer (Imperial College London, UK), Robert Dickinson (Imperial College London, UK), Tom Ellis (Imperial College London, UK), Paul S Freemont (Imperial College London, UK), Richard I Kitney (Imperial College London, UK), Karen Polizzi (Imperial College London, UK), and Guy-Bart Stan (Imperial College London, UK)

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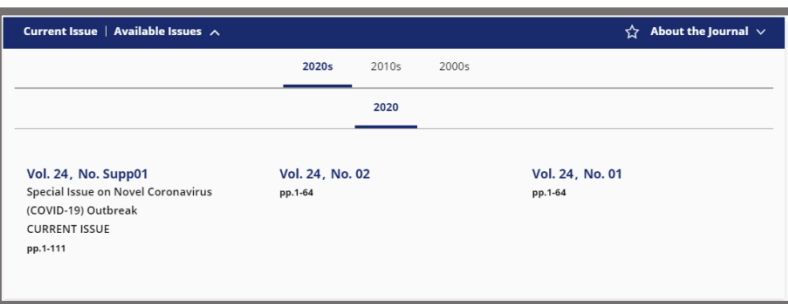
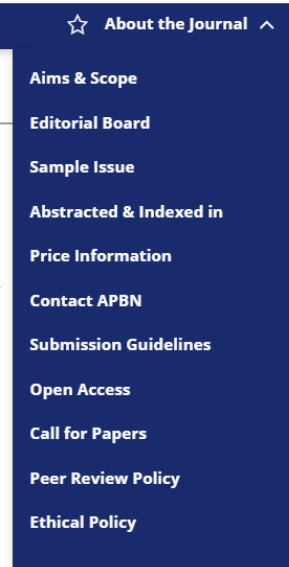
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THE SPILLOVER AND LEVERAGE EFFECTS OF EQUITY EXCHANGE-TRADED NOTES (ETNs)

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Abstract

This research utilizes the Autoregressive Moving Average–General Autoregressive Conditional Heteroskedasticity (ARMA–GARCH) and Autoregressive Moving Average–Exponential General Autoregressive Conditional Heteroskedasticity (ARMA–EGARCH) in studying the spillover and leverage effects of returns and volatilities of

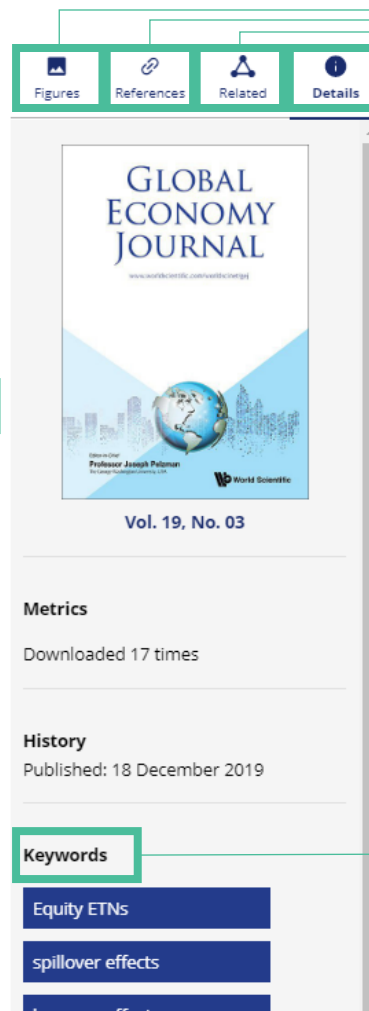
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THE SPILLOVER AND LEVERAGE EFFECTS OF EQUITY EXCHANGE-TRADED NOTES (ETNs)

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Chang Yuan Christian University, Chung-li, Taiwan
jdiaz@cyu.edu.tw
Published 18 December 2019



The interface shows the journal cover for 'GLOBAL ECONOMY JOURNAL' by Professor Joseph Palaman, published by World Scientific. Below the cover, it displays 'Vol. 19, No. 03'. On the right side, there are four tabs: 'Figures', 'References', 'Related', and 'Details'. Below these tabs, there are sections for 'Metrics' (Downloaded 17 times), 'History' (Published: 18 December 2019), and 'Keywords'. The 'Keywords' section lists 'Equity ETNs', 'spillover effects', and 'Leverage Effect'.

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