

Good Read – Publications from the EMBO community

A cancer associated somatic mutation in LC3B attenuates its binding to E1-like ATG7 protein and subsequent lipidation
Adi Kimchi and colleagues
Autophagy | 8 October 2018
Doi: 10.1080/15548627

Peer power: A women's peer-mentoring program at the workplace: example from the academia
Uri Alon and colleagues
EMBO Reports | 5 November 2018
Doi: 10.15252/embr.201847246

Single-cell reconstruction of the human early maternal-fetal interface
Sarah Teichmann and colleagues
Nature | 14 November 2018
Doi: 10.1038/s41586-018-0698-6

Structural variation in the gut microbiome associates with host health
Eran Segal and colleagues
Nature | 27 March 2019
Doi: 10.1038/s41586-019-1065-y

Evolthon: A community endeavor to evolve lab evolution
Yitzhak Pilpel, Roy Kishony and colleagues
PLoS Biology | 29 March 2019
Doi: 10.1371/journal.pbio.3000182

Helical Twist and Rotational Forces in the Mitotic Spindle
Iva Tolić and colleagues
Biomolecules | 1 April 2019
Doi: 10.3390/biom9040132

Bromodomain inhibition of the coactivators CBP/EP300 facilitate cellular reprogramming
Tamer T. Önder and colleagues
Nature Chemical Biology | 8 April 2019
Doi: 10.1038/s41589-019-0264-z

Rigid helical-like assemblies from a self-aggregating tripeptide
Ehud Gazit and colleagues
Nat. Materials | 15 April 2019
Doi: 10.1038/s41563-019-0343-z

Direct Induction of the Three Pre-implantation Blastocyst Cell Types from Fibroblasts
Yossi Buganim and colleagues
Cell Stem Cell | 24 April 2019
Doi: 10.1016/j.stem.2019.03.018

Histone H1.5 binds over splice sites in chromatin and regulates alternative splicing
Gil Ast and colleagues
Nucleic Acids Research | 11 May 2019
Doi: 10.1093/nar/gkz338

Awards of Excellence

EMBO MEMBERS

Santiago Ramón y Cajal National Award

Ángela Nieto, Institute of Neurosciences, Alicante, Spain, received the Santiago Ramón y Cajal National Award in biology. The award is made by the Spanish Ministry of Science, Innovation and Universities. Nieto receives the honour for her pioneering research on epithelial-mesenchymal transition and its role in furthering understanding of the origins of cancer and degenerative diseases.

Israel Prize for Life Sciences

Adi Kimchi, Weizmann Institute of Science, Rehovot, Israel, won this year's Israel Prize for Life Sciences, the country's highest honour. She receives the prize for her work on deciphering the mechanisms of programmed cell death in mammals, including the identification of DAP genes.

GlaxoSmithKline Prize

The Biochemical Society awarded the 2020 GlaxoSmithKline Prize to **Sarah Teichmann** from the Wellcome Sanger Institute, Cambridge, UK. The award recognizes research in biochemistry carried out in the UK or the Republic of Ireland that led to new advances in medical science. Teichmann receives 2000 pounds sterling prize money.

Centenary Award

Kay Davies, University of Oxford, UK, received the Biochemical Society Centenary Award 2020, which is awarded annually to a biochemist of distinction from any part of the world. Davies was honoured for her work on developing therapeutic strategies for Duchenne muscular dystrophy. She will receive 3000 pounds sterling prize money and the Centenary medal.

Rumford Prize

Gero Miesenböck, University of Oxford, UK, and **Georg Nagel**, Würzburg University, Germany, are among the recipients of the American Academy of Arts & Sciences Rumford Prize. They share the prize with Ernst Bamberg, Ed Boyden, Karl Deisseroth, and Peter Hegemann in recognition of their contributions to the invention and refinement of optogenetics.

Alice and CC Wang Award in Molecular Parasitology

Dominique Soldati-Favre, University of Geneva, Switzerland, received the American Society for Biochemistry and Molecular Biology's 2019 Alice and C.C. Wang Award in Molecular Parasitology for her outstanding work on *Toxoplasma gondii* invasion and egress. She received the award at the annual ASBMB meeting in Orlando, USA in April this year.

EMBO INSTALLATION GRANTEEES

Young Scientist Award

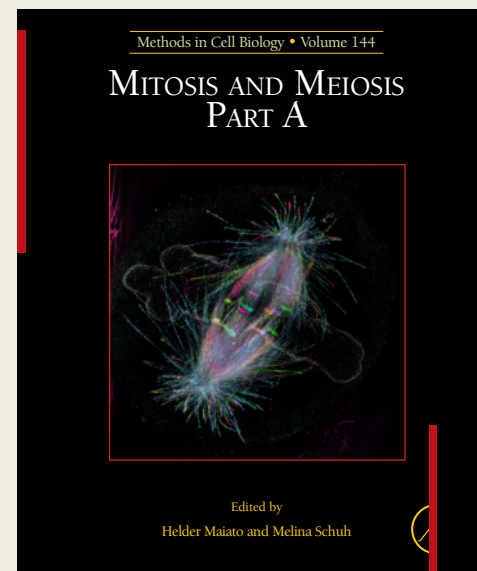
Ogun Adebali, Sabancı University; **Şükrü Anıl Doğan**, Boğaziçi University; **Serap Erkek**, Izmir Biomedicine and Genome Center; and **Ayşe Koca Caydasi**, Koc University (all in Turkey) were awarded the Science Academy of Turkey Young Scientist Award. The award is given to scientists under the age of 40 with a record of excellence in research.

SMBE Allan Wilson Junior Award for Independent Research

The Society for Molecular Biology and Evolution (SMBE) awarded the Allan Wilson Junior Award for Independent Research to **Claudia Bank** of the Instituto Gulbenkian de Ciência (IGC), Oeiras, Portugal. The award recognizes her innovative original research to advance the field of molecular biology and evolution. She receives a prize of 2000 US dollars.

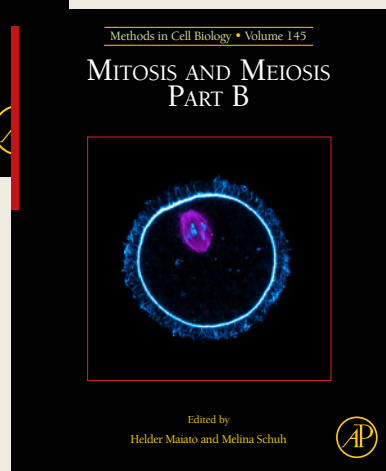
BOOK REVIEW

20 years on: the latest in mitosis and meiosis



Mitosis and Meiosis Part A, Volume 144
Helder Maiato and Melina Schuh
Elsevier | May 2018
www.elsevier.com/books/mitosis-and-meiosis-part-a/maiato/978-0-12-814144-1
ISBN: 9780128141441

Mitosis and Meiosis Part B, Volume 145
Helder Maiato and Melina Schuh
Elsevier | May 2018
<https://www.elsevier.com/books/mitosis-and-meiosis-part-b/maiato/978-0-12-814142-7>
ISBN: 9780128141427



EMBO Members Helder Maiato, University of Porto, Portugal, and Melina Schuh, Max Planck Institute for Biophysical Chemistry, Goettingen, Germany, have edited two new volumes of the 'Methods in Cell Biology' series.

Written for cell biologists in the broadest sense by numerous experts in the field, the books provide an extensive overview of the latest developments and techniques used to study mitosis and meiosis. Almost 20 years after the original publication of a *Methods in Cell Biology* series volume dedicated to this subject, these two books provide a comprehensive update.

Mitosis and Meiosis, Part A, Volume 144 includes chapters on analyzing the spindle assembly checkpoint, employing CRISPR/Cas9 genome engineering to dissect the molecular requirements

for mitosis, small-molecule tools in mitosis research, and controlling mitosis using optogenetics. *Mitosis and Meiosis Part B, Volume 145* focuses on microscopic approaches, such as mitotic live cell imaging at different time scales, the characterization of mitotic spindle by multi-mode correlative microscopy, and imaging-based assays for mitotic chromosome condensation and dynamics.

Practical Courses

UK-London | 2–12 September 2019 | H.R. Saibil
Image processing for cryo electron microscopy

DE-Heidelberg | 8–17 September 2019 | A. Diz-Muñoz
Current methods in cell biology

DE-Heidelberg | 15–22 September 2019 | V. de Lorenzo
Synthetic biology in action: Bridging natural/non-natural

FR-Lyon | 16–20 September 2019 | R. Salek
Metabolomics bioinformatics in human health

FR-Grenoble | 23–27 September 2019 | F. Gabel
Small angle neutron and X-ray scattering from biomacromolecules in solution

DE-Heidelberg | 3–8 November 2019 | R. Strippecke
Humanized mice in biomedicine: Challenges and innovations

DE-Hamburg | 3–9 November 2019 | J. Kosinski
Practical integrative structural biology

ES-Barcelona | 10–15 November 2019 | E. Sabidó
Targeted proteomics: Experimental design and data analysis

DE-Heidelberg | 11–15 November 2019 | D. Ordonez
The fundamentals of high-end cell sorting

DE-Heidelberg | 17–22 November 2019 | V. Benes
Methods for analysis of circular RNAs: No tautology

IN-Bangalore | 1–6 December 2019 | S. Gosavi
Computational analysis of protein-protein interactions in cell function and disease

IN-Kolkata | 19–30 January 2020 | R. Natesh
CEM3DIP 2020: Single particle cryoEM of macromolecular-assemblies and cellular tomography

DE-Heidelberg | 1–6 March 2020 | M.D. Vivanco
Techniques for mammary gland research

DE-Heidelberg | 15–20 March 2020 | E. Zielonka
FISHing for RNAs: Classical to single molecule approaches

LU-Luxembourg | 16–23 March 2020 | P. Wilmes
Integrated multi-omic analyses of microbial communities

DE-Heidelberg | 20–27 April 2020 | J.E. González-Pastor
Microbial metagenomics: A 360° approach

DE-Heidelberg | 3–9 May 2020 | J. Medenbach
Measuring translational dynamics by ribosome profiling

TR-Izmir | 10–15 May 2020 | A. Bonvin
Integrative modelling of biomolecular interactions

GR-Heraklion | 10–21 May 2020 | A. Stamatakis
Computational molecular evolution

DE-Heidelberg | 16–26 June 2020 | P. Ronchi
Advanced electron microscopy for cell biology

DE-Dresden | 22 June–1 July 2020 | A. Honigmann
Methods for studying lipids in cell biology

DE-Heidelberg | 19–24 July 2020 | H. Sapers
Molecular geobiology

Workshops

UK-Oxford | 1–5 September 2019 | P. Klenerman
CD1-MR1: Beyond MHC restricted lymphocytes

ES-Sant Feliu de Guíxols | 1–6 September 2019 | K. Jung
Bacterial networks (BacNet19)

IT-Ischia | 1–6 September 2019 | A. Roux
The physics and chemistry of endocytosis at multiple scales

DE-Heidelberg | 4–7 September 2019 | F. Gebauer Hernández
Protein synthesis and translational control

IT-Naples | 10–13 September 2019 | C. Neri
Network inference in biology and disease

AT-Vienna | 10–13 September 2019 | J.M. Peters
Organization of bacterial and eukaryotic genomes by SMC complexes

HR-Cavtat | 13–17 September 2019 | C. Joazeiro
The ubiquitin system: Biology, mechanisms and roles in disease

IT-Assisi | 16–18 September 2019 | M.T. Pallotta
Molecular mechanisms of unconventional protein secretion in eukaryotic cells

CH-Les Diablerets | 16–20 September 2019 | F. Cortés Le-desma
DNA topology and topoisomerases in genome dynamics

DE-Berlin | 17–20 September 2019 | G.R. Lewin
Beyond the standard: Non-model vertebrates in biomedicine

DE-Heidelberg | 22–25 September 2019 | J.L. Faulon
Creating is understanding: Synthetic biology masters complexity

Editorial

Coordinating editor
Annika Grandison

Text Annika Grandison, Adam Gristwood, Tilmann Kiessling, Katrin Weigmann, Kathy Weston, Rosemary Wilson

Print & web layout
Pauline Marchetti

DE-Dresden | 27–30 September 2019 | K. Simons
Lipid function in health and disease

SI-Ljubljana | 29 September–2 October 2019 | J. Ule
RNP network dynamics in development and disease

GR-Crete | 6–9 October 2019 | M. Pasparakis
Cell death in immunity and inflammation

GR-Crete | 6–10 October 2019 | J. Tyler
Histone chaperones: Structure, function and role in development and disease

DE-Hamburg | 7–9 October 2019 | C. Löw
Tools for structural biology of membrane proteins

GR-Attica | 7–11 October 2019 | M. Tarsounas
The DNA-damage response in cell physiology and disease

ES-Girona | 14–19 October 2019 | K.H. Wolfe
Comparative genomics of eukaryotic microbes: Genomes in flux, and flux between genomes

DE-Berlin | 26–29 October 2019 | T.F. Meyer
The impact of bacterial infections on human cancer

DE-Heidelberg | 13–16 November 2019 | L. Steinmetz
Precision health: Molecular basis, technology and digital health

PT-Ericeira | 15–19 November 2019 | C. Adrain
Proteostasis: From organelles to organisms

IN-Bangaluru | 8–13 December 2019 | H. Atreya
Intrinsically disordered proteins: From molecules to systems

IL-Rehovot | 8–10 March 2020 | M. Fainzilber
Cell size and growth regulation

ES-Barcelona | 1–3 April 2020 | M. Graupera
Vascular malformations: From fundamental biology to therapeutic opportunities

FR-Gouvieux | 5–10 April 2020 | F. Relaix
Muscle formation, maintenance, regeneration and pathology

DE-Heidelberg | 22–24 April 2020 | D. O'Carroll
The eptitranscriptome

DE-Heidelberg | 6–9 May 2020 | S. Garel
Microglia 2020

IL-Ein Gedi | 10–15 May 2020 | A. Zaritsky
Bacterial cell biophysics: DNA replication, growth, division, size and shape

SE-Svartsjö | 17–21 May 2020 | M. Minczuk
Molecular biology of mitochondrial gene maintenance and expression

NL-Leiden | 24–28 May 2020 | H. van Attikum
Chromatin dynamics and nuclear organization in genome maintenance

Symposia

EMBO | EMBL Symposia

DE-Heidelberg | 11–13 September 2019 | J. Zaugg
Multomics to mechanisms: Challenges in data integration

DE-Heidelberg | 29 September–2 October 2019 | B. Lehner
Systems genetics: From genomes to complex traits

DE-Heidelberg | 9–12 October 2019 | J. Ellenberg
Seeing is believing: Imaging the molecular processes of life

India | EMBO Symposia

IN-Kalyani | 9–12 November 2019 | S. Mukherjee
Human microbiome: Resistance and disease

IN-Bangalore | 26–29 January 2020 | G. Hasan
Calcium signaling: Molecular mechanisms to role in health and diseases

Lecture Courses

EMBO | FEBS Lecture Course

GR-Spetses Island | 4–12 September 2019 | P. Cossart
The new microbiology

GR-Hydra | 15–22 September 2019 | A. Smith
The hydra XIV European summer school on stem cell biology and regenerative medicine

ME-Herceg Novi | 24–28 September 2019 | A. Trifunovic
Mitochondria in life, death and disease

Global Exchange Lecture Course

CL-Santiago | 14–20 October 2019 | D. Svergun
Structural and biophysical methods for biological macromolecules in solution

For a complete and up-to-date list of EMBO events please go to events.embo.org

Next issue

The next issue of *EMBO Encounters* will be dispatched in **November 2019**. Please send your suggestions, contributions and news to communications@embo.org by **20 September 2019**.

UPCOMING DEADLINES

Long-Term Fellowships throughout the year

Women in Science Award 15 October 2019

India | EMBO Symposia 15 February 2020