

As the Biochemical Society's publisher, we work in partnership with researchers, institutions, and funders to share knowledge and advance the molecular biosciences.


Publishing world-leading research and reviews across our portfolio of seven journals, we return all of our profits to the life science community in support of our Society's charitable activities. With more than six million worldwide views in 2019, our journals cover the depth and breadth of the molecular biosciences, from observational work to interpreting mechanisms, from translating basic research into medical insights to foundational overviews of new and emerging topics.

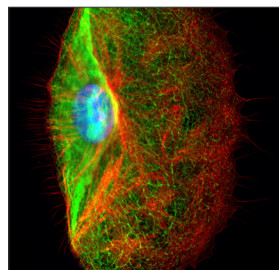
W [portlandpress.com](http://portlandpress.com)  [editorial@portlandpress.com](mailto:editorial@portlandpress.com)  @PPPublishing

(Registered Charity No 253894)

Founded in 1911, the Biochemical Society exists to advance molecular bioscience, promoting its importance as an academic discipline, from grassroots level to government policy, and highlighting its role in positively effecting societal challenges.

Offering an extensive programme of scientific meetings, training events and courses, educational resources and activities, policy and public engagement, the Society provides support for researchers and scientists, teachers, and members of the public.

W [biochemistry.org](http://biochemistry.org)  [communications@biochemistry.org](mailto:communications@biochemistry.org)  @BiochemSoc



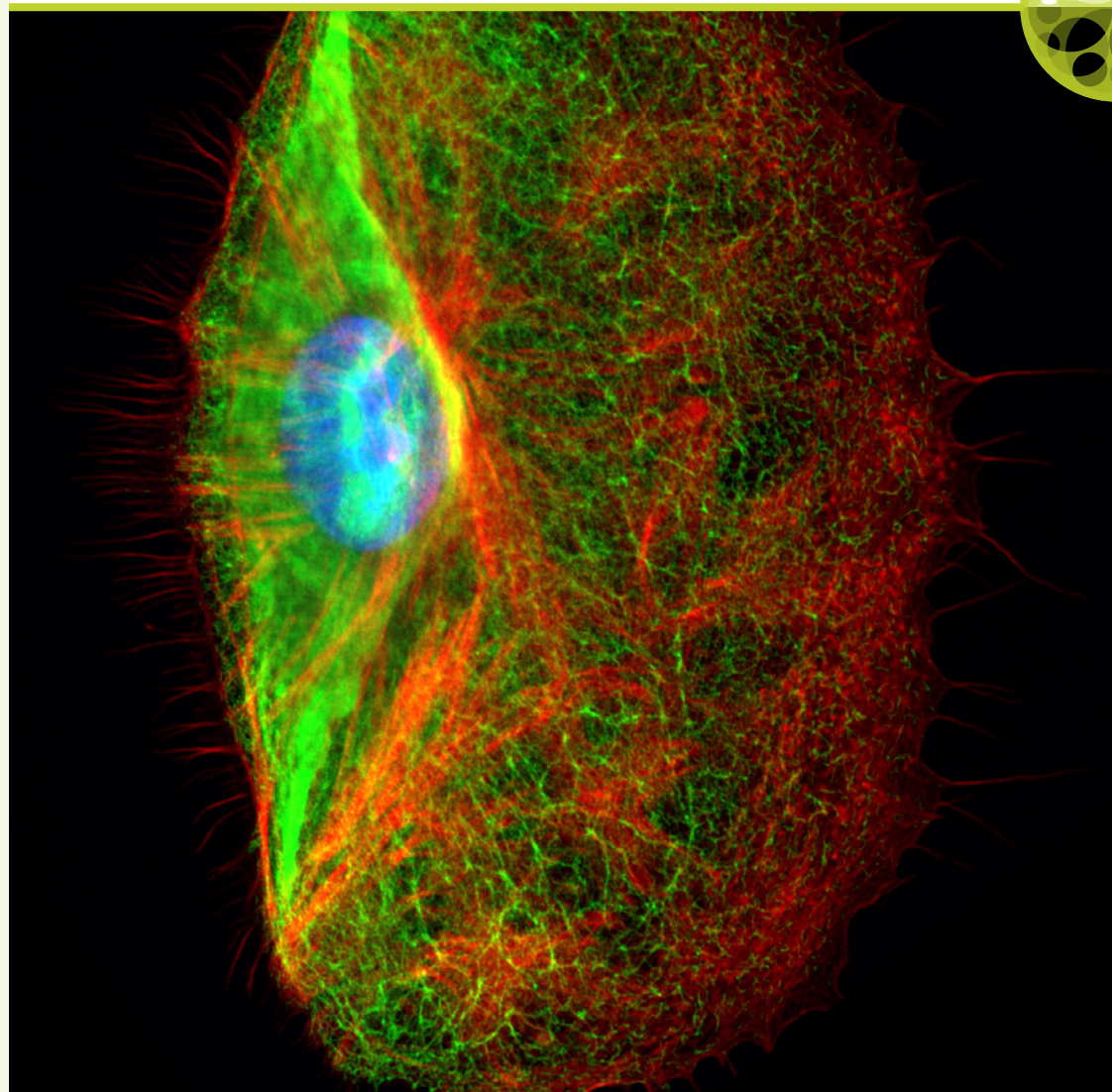
#### Cover Image

Kinetochores are specialized protein structures assembled on the centromere of the chromosome during mitotic and meiotic cell division. The cover image shows a mouse oocyte in metaphase I. The image was kindly provided by Dr Soni Lacefield.

# ESSAYS IN BIOCHEMISTRY

REVIEWS FROM EXPERTS IN THE FIELD

[portlandpress.com/essaysbiochem](http://portlandpress.com/essaysbiochem)



Highlighting key contemporary topics in biochemistry, *Essays in Biochemistry* is a fully commissioned journal that brings together reviews from leading experts. From antimicrobial resistance to the biological mechanisms of ageing, themed issues are guest edited by key opinion leaders, offering up-to-date summaries of changing specialist research areas.

## Editor-in-Chief

**Sarah Perrett** (Institute of Biophysics, Chinese Academy of Sciences, China)

## Editorial Advisory Panel

**Paul Brookes** (University of Rochester Medical Center, USA)

**Steve Gutteridge** (FMC Corporation, USA)

**Lorna Harries** (University of Exeter College of Medicine and Health, UK)

**Samrat Mukhopadhyay** (Indian Institute of Science Education and Research, India)

**Hannah Scott** (Cardiff University, UK)

**Elizabeth Shephard** (University College London, UK)

**Cathy Tournier** (University of Manchester, UK)

**Zhe Wu** (Southern University of Science and Technology, China)

**Y. Shrike Zhang** (Harvard Medical School/Brigham and Women's Hospital, USA)

## Articles

**Application of single-cell RNA sequencing methodologies in understanding haematopoiesis and immunology**

*Anna M. Ranzoni, Paulina M. Strzelecka and Ana Cvejic*

**Recent updates on the molecular network of elastic fiber formation**

*Seung Jae Shin and Hiromi Yanagisawa*

**Adaptation processes that build CRISPR immunity: creative destruction, updated**

*Chun H. Lau, Ryan Reeves and Edward L. Bolt*

**Exploring the extracellular matrix in health and disease using proteomics**

*Isra N. Taha and Alexandra Naba*

**CTCF: a Swiss-army knife for genome organization and transcription regulation**

*Luca Braccioli and Elzo de Wit*

**Diverse roles of non-muscle myosin II contractility in 3D cell migration**

*Priti Agarwal and Ronen Zaidel-Bar*

**Chromatin fiber structural motifs as regulatory hubs of genome function?**

*Manuela Moraru and Thomas Schalch*



**OPEN ACCESS**  
PAPERS ARE AVAILABLE



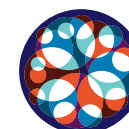
**EXPERT**  
PEER REVIEW



**TOTAL ARTICLE VIEWS**  
IN 2018  
**350K+**



**BEST PRACTICE**  
ADHERES TO COPE AND  
ICMJE GUIDELINES



**INDEPENDENT**  
ALL OF OUR  
PROFITS SUPPORT  
THE BIOCHEMICAL SOCIETY



**INTERNATIONAL**  
EDITORIAL BOARD



**FULLY COMMISSIONED**  
INVITED CONTENT ONLY



**IMPACT FACTOR**  
**6.966\***



**ISSUES PER YEAR**  
**6**



**INDEXED IN**  
GOOGLE SCHOLAR,  
PUBMED AND  
WEB OF SCIENCE



**RESEARCHER NETWORK**  
PARTNERED WITH ORCID  
AND PUBLONS



**POLICY**  
WE ACTIVELY CONTRIBUTE TO  
THE EVOLVING LANDSCAPE  
OF ACADEMIC PUBLISHING

**W** [portlandpress.com/essaysbiochem](http://portlandpress.com/essaysbiochem)  
**E** [editorial@portlandpress.com](mailto:editorial@portlandpress.com)

Invited content only

**SIGN UP TO ALERTS**  
**VIA OUR HOMEPAGE**