2021 Member Forum

In memory of deceased members

- Otto Hutter
- Frank Bowser-Riley
- Edward Carmeliet
- Jere Mitchell
- Frederick Noel Fastier
- Malcolm Segal
- John Morrison
President’s report

Professor David Paterson
President
Increasing our visibility in an inclusive and sustainable manner
Blue plaques

University of Edinburgh
Mary Pickford

University of Liverpool
Sir Charles Scott Sherrington

University of Oxford
Sir Charles Scott Sherrington

University of Oxford
Mabel FitzGerald

University of Manchester
A V Hill

8 Hunter Street
(Formerly UCL)
Winifred Cullis
Member roadshows
Professor Dr Peter Kohl appointed as new Editor-in-Chief of The Journal of Physiology (JP) and will take over from early April 2022.

Professor Kohl, JP’s first Editor-in-Chief based in continental Europe, is a cardiac physiologist at University of Freiburg, and formally of Imperial College London and the Univeristy of Oxford.

Professor Mike Tipton will stand down as Editor-in-Chief of Experimental Physiology in September 2022 and the process for appointing his successor will start shortly.
bringing our community together
Future Physiology 2021
April 2021

249 attendees
32 countries

- 100% said they would recommend the conference to a colleague or friend
- 90% feel increased enthusiasm for their work
- 84% said they now feel more confident networking online
- 94% of presenters said they have improved their presentation skills
- 70% said the workshops were valuable for their professional development
Physiology 2021
Our Annual Conference – July 2021
Europhysiology 2022
16 – 18 September 2022, Copenhagen

- A joint meeting with The Deutsche Physiologische Gesellschaft, the Scandinavian Physiological Society and Federation of European Physiological Societies.
- Continuation of a successful series that started with Europhysiology 2018 in London.
- Also in 2022: Review of conference’s strategy to ensure we are offering the best programme of events.
building collaboration and increasing our influence
Society’s response to the COVID-19 pandemic

COVID-19 Advisory Panel

- The Society worked with clinicians during the acute phase of the pandemic on ‘Questions from the Frontline’.

- This led to a conference with the Intensive Care Society bringing together physiologists and intensive care specialists - **COVID-19 Lessons Learned from the Frontline 14-16 December 2020**.

  There were 350 participants from 27 countries

- We have now turned attention to ‘Long Covid’ with both a policy report and conference due in February 2022.
Increasing our influence

Recent policy reports and activity

In 2021, spoken at a range of external stakeholder conferences including: Parliamentary & Scientific Committee, GuildHE Annual Conference, PraxisAuril Annual Conference, ASTP European Annual Conference

Chair of BBSRC panel reviewing the opinions of researchers into the use of models in research
Chief Executive’s report

Building Community

to ensure

Physiology is Flourishing

Dariel Burdass
Chief Executive
2021
Building Community
Key area of focus to ensure physiology flourishes

1. To provide leadership in the field of physiology to ensure there is a strong coherent voice for the discipline.
2. To communicate physiology’s vital role in addressing global challenges such as lifelong health and climate change and the value of the physiology community in providing solutions for them.
3. To ensure the activities of The Society are informed by the knowledge, understanding and expertise of our members and enhanced by their participation.
4. To empower an inclusive and diverse community of members with networking opportunities and the skills required to fulfil their potential in a global economy.
5. To increase our influence, for example by collaborating with like-minded organisations in physiology and other relevant fields.
6. To continue to enhance the membership experience.
Building Community - Society Representatives

We have 171 Reps, across 128 institutions.

43 attended the online Rep meeting.

- Developing member communities and sharing
- Best practice.
- Increasing connections and membership with those not in the traditional academia roles.
YOUR ONLINE MEMBER COMMUNITY

Build supportive relationships and grow your network with physiologists across career stages and interests.

Share your ideas and explore new approaches to research and teaching in a friendly, supportive environment.

Expand the reach of your research with our lively, global community.

Continue the conversation beyond our conferences and webinars.

LOG ON AND JOIN IN THE CONVERSATION: www.physoc.org
Building Community - Professional development webinars 2021

Networking
- Explore the many forms of networking, and how to boost your online presence.

Scientific writing and data presentation
- Find out more about best practice for grant and scientific writing, and data presentation.

Publishing
- Learn top tips on how to write a scientific manuscript and more.

Translation of research to impact
- Find out how to maximise the impact of your research outside of the lab.

Presenting
- Pick up some tips on how to make the most of opportunities to present.

Career progression
- Pick up some advice for your next career move or promotion.

Science communication
- Pick up some tips on how to communicate your science effectively.

Resources for Educators
- These resources have been collated to help support those involved in teaching physiology.
<table>
<thead>
<tr>
<th>Theme</th>
<th>Lead Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac &amp; Vascular Physiology</td>
<td>Andrew Frederick James</td>
<td>University of Bristol</td>
</tr>
<tr>
<td>Cardiac &amp; Vascular Physiology</td>
<td>Chris Garland</td>
<td>University of Oxford</td>
</tr>
<tr>
<td>Cardiac &amp; Vascular Physiology</td>
<td>Sarah Calaghan</td>
<td>University of Leeds</td>
</tr>
<tr>
<td>Education &amp; Teaching</td>
<td>Etain Tansey</td>
<td>Queen’s University Belfast</td>
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<tr>
<td>Education &amp; Teaching</td>
<td>Nicholas Freestone</td>
<td>Kingston University</td>
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<tr>
<td>Education &amp; Teaching</td>
<td>Rachel Ashworth</td>
<td>Queen Mary University of London</td>
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<tr>
<td>Endocrinology</td>
<td>Paul Le Tissier</td>
<td>University of Edinburgh</td>
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<tr>
<td>Endocrinology</td>
<td>Tim Wells</td>
<td>Cardiff University</td>
</tr>
<tr>
<td>Epithelia and Membrane Transport</td>
<td>Mike Althaus</td>
<td>Bonn-Rhein-Sieg University of Applied Sciences, Germany</td>
</tr>
<tr>
<td>Epithelia and Membrane Transport</td>
<td>Morag Mansley</td>
<td>University of St Andrews</td>
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<td>Human, Environmental &amp; Exercise Physiology</td>
<td>Gladys Leopoldine Onambele-Pearson</td>
<td>Manchester Metropolitan University</td>
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<tr>
<td>Human, Environmental &amp; Exercise Physiology</td>
<td>Kostas Tsintzas</td>
<td>University of Nottingham</td>
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<tr>
<td>Metabolic Physiology</td>
<td>Andrew Murray</td>
<td>University of Cambridge</td>
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<tr>
<td>Metabolic Physiology</td>
<td>Paul James Meakin</td>
<td>University of Leeds</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>Charlotte Stagg</td>
<td>University of Oxford</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>Talitha Kerrigan</td>
<td>University of Exeter</td>
</tr>
<tr>
<td>Theme</td>
<td>Lead Name</td>
<td>University</td>
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<tr>
<td>Cardiac &amp; Vascular Physiology</td>
<td>Greg Sutton</td>
<td>University of Edinburgh</td>
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<tr>
<td>Education &amp; Teaching</td>
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<td>University of Leeds</td>
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<tr>
<td>Endocrinology</td>
<td>Shelley Harris</td>
<td>University of Southampton</td>
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<tr>
<td>Epithelia &amp; Membrane Transport</td>
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<td>Northumbria University</td>
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<td>Metabolic Physiology</td>
<td>Kelly Bowden Davies</td>
<td>Manchester Metropolitan University</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>Laura Rich</td>
<td>University of Nottingham</td>
</tr>
</tbody>
</table>
Building Community - Scientific Webinars 2021

11 scientific webinars.

498 attended the online.

22 countries

262 Members

236 Non-Members
Building Community - Inclusion and Diversity

• Diversity and Inclusion Roadmap for Change launched April 2021 with diversity advocate and physiologist, Dr Oz Ismail.

• Engaged consultant Letesia Gibson from Time for New Ways.

• By March 2022, we hope to agree a vision and strategic roadmap for a more inclusive membership.
Building Community Inclusion and Diversity

Being Black in Physiology: Diversity for Scientific Excellence
Building community – social media

• >1,000 tweets sent so far in 2021 (14% increase)
• 3,500,000 people have seen our tweets (38% increase)
• 9,866 likes and 3,845 retweets (stable)
• 1,486 new followers
• Posts with videos have been a powerful way to connect with users.
• Our top performing tweet for 2021 was our ‘Being Black in Physiology’ video

In our latest video, we interview 3 of our Black members about the impact of seeing few Black academics in senior positions, and about their own research. Watch the full video: buff.ly/3tUb09

@agyapong_badu @DayneBeccano @UKRI_News @cardiffuni @BlackinPhysio @UKDRI

43,837 people saw this tweet!
Building community – social media

- 4,695 followers (17% increase)
- 316 posts (125% increase)
- 116,696 impressions (95% increase)

- 92 posts (25% increase)
- 45,659 impressions (17% increase)
- 2,296 likes (10% increase)

- 3,550,000 saw our posts (39% increase)
- However, Many metrics on Facebook were down in 2021. This is likely due to fewer and fewer people using this social media site.
Building Community – addressing global Issues - COP26 Hub

Showcasing how physiological research is improving our knowledge of the effects of climate change
Through 2022 The Society will be developing a strategic framework which will act as a guide for The Society’s Board of Trustees and the Senior Management Team as we aim to grow as an organisation – in visibility, reach, influence, impact in an inclusive and sustainable manner.
## Income falls by 7%

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
<th>Inc/(dec)</th>
<th>% total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>4,023</td>
<td>4,094</td>
<td>(71)</td>
<td>90</td>
</tr>
<tr>
<td>Investments</td>
<td>365</td>
<td>397</td>
<td>(32)</td>
<td>8</td>
</tr>
<tr>
<td>Events</td>
<td>3</td>
<td>159</td>
<td>(156)</td>
<td>0</td>
</tr>
<tr>
<td>Membership</td>
<td>61</td>
<td>153</td>
<td>(92)</td>
<td>2</td>
</tr>
<tr>
<td>Sundry</td>
<td>-</td>
<td>7</td>
<td>(7)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4,452</strong></td>
<td><strong>4,810</strong></td>
<td><strong>(358)</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

All £'000, small rounding differences may arise
Expenditure falls by 23%

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
<th>Inc/(decr)</th>
<th>% total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>1,487</td>
<td>1,717</td>
<td>(230)</td>
<td>41</td>
</tr>
<tr>
<td>Engagement</td>
<td>1,444</td>
<td>1,932</td>
<td>(488)</td>
<td>40</td>
</tr>
<tr>
<td>Events</td>
<td>455</td>
<td>816</td>
<td>(361)</td>
<td>13</td>
</tr>
<tr>
<td>Other</td>
<td>179</td>
<td>191</td>
<td>(12)</td>
<td>5</td>
</tr>
<tr>
<td>Investments</td>
<td>22</td>
<td>32</td>
<td>(10)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,587</td>
<td>4,688</td>
<td>(1,101)</td>
<td>100</td>
</tr>
</tbody>
</table>

All £’000, small rounding differences may arise
**£0.8m increase in net assets**

<table>
<thead>
<tr>
<th>Component</th>
<th>2020 Value</th>
<th>2019 Value</th>
<th>Change</th>
<th>Percentage Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tangible assets</strong></td>
<td>£1.9m</td>
<td>£2.0m</td>
<td>Decrease</td>
<td>-12%</td>
</tr>
<tr>
<td>Decrease is the depreciation charge on the part of HHH that the Society occupies.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Investments</strong></td>
<td>£12.4m</td>
<td>£13.4m</td>
<td>Decrease</td>
<td>-75%</td>
</tr>
<tr>
<td>Decrease is due to transfer to cash of £1m offset by investment gains of £0.5m and a £0.5m downwards revaluation of the part of HHH classified as ‘investment property’.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net current assets</strong></td>
<td>£2.1m</td>
<td>£0.3m</td>
<td>Increase</td>
<td>13%</td>
</tr>
<tr>
<td>Increase is almost entirely due to cash and cash equivalents rising in 2020 (£2.0m).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Funds</strong></td>
<td>£16.5m</td>
<td>£15.7m</td>
<td>99% of funds are unrestricted. Unrestricted reserves increased by £0.9m to £16.4m.</td>
<td></td>
</tr>
</tbody>
</table>
Following a strong performance in 2019, the portfolio grew by 5.9% in 2020 against the Benchmark of 4.5% and the Composite benchmark of 5.9%.

2021 year to date performance has been strong and is rising steadily.
Forecast income is decreased from budget due to postponement of events and reduced publishing income, while expenditure is reduced by about 20%, due to savings across the board, predominantly in publishing and events.
Other matters to report

Responsible investment policy review

New investment manager – Rathbone Greenbank
Other matters to report

Responsible investment policy review

New investment management – Rathbones

First year with new auditors – Buzzacott

HHH property review
Kim E. Barrett
Editor-in-Chief, *The Journal of Physiology*
Key metrics

- Over 6 million downloads in 2020 (up 5.8% from 2019)
- Over 58,000 cites in 2020 (up by 16.0% from 2019)
- 2020 Impact Factor = 5.182
- 9.4% decline in submissions in 2020 compared to 2019
- Available in 14,724 institutions worldwide
- Time to triage decision (research papers) = 4.1 days
- Time to first decision (research papers, excluding triage) = 32.9 days
- Average time from acceptance to Early View publication = 29 days
- Involved 1,069 referees from 36 different countries in the past 12 months
- Have 81 Board members in 19 countries (as of Nov 2021)
Improved diversity of Editorial Board and Leadership Team in terms of gender, seniority and geography
- 22% females on Board in 2016 to 36% in 2021
- 11 countries represented on Board in 2016 to 19 in 2021

Emphasized JP as the hub for the physiology community
- Editorial Board Fellowship scheme
- Quarterly newsletter
- Encouraging Journal Club submissions from ECRs
- Rewarding top referees
- Extended journal prizes for ECRs
- Pipeline of engaging Editorials
- Special issues and symposium review collections in all areas of physiology
- Publishing for Beginners webinars
- Redefined Table of Contents categories
- Subject Taxonomy
Looking back – 2016-2021

- Emphasis on rigor, reproducibility and transparency in peer review
  - Publishing names of handling Editors on accepted papers
  - Publication of peer review history
  - Extensive overhaul of policies on statistics and reporting
  - Open Data Badge available to authors

- Increased quality and visibility of published works
  - Introduced “Physiology Shorts” videos of our most impactful articles
  - Introduced Abstract Figures for research articles
  - Introduction of BioRender Premium of figure redrawing
  - Social media accounts
  - Introduced best practice guidelines for writing titles and abstracts
Looking forward

- Celebrating our 600th volume
  - Celebrating past content and how physiology will define future research
- Ensuring we hand over a vibrant enterprise to the next EiC and their team
- Preparing for a smooth editorial transition
Sally Howells
Publisher, *The Physiological Society*

on behalf of

Mike Tipton
Editor-in-Chief, *Experimental Physiology*
Key metrics

- Over 1,000,000 downloads in 2020 (up 25% from 2019)
- 7,380 cites in 2020 (up 29.3% from 2019)
- 2020 Impact Factor = 2.969 (up 9% from 2019)
- Increase in submissions in 2020
- Available in 14,130 institutions worldwide
- Time to triage decision (research papers) = 3.9 days
- Time to first decision (research papers, excluding triage) = 32.5 days
- Average time from acceptance to Early View publication = 31.0 days
- Involved 675 referees from 41 different countries (in the past 12 months)
- Have 78 Board members in 14 countries (as of Nov 2021)
Looking back – 2016-2021

New article types:
- Registered Reports
- Myths and Methodologies
- Short Communications
- Case Studies

Services to our community and authors:
- Quarterly newsletter
- New mid-career author prize
- EPicks – author-generated video abstracts
- Strengthened ties with The Society
- Simpler submission experience for authors

Championing Best Practice in publishing:
- Open Science Badges available to authors
- Publishing for beginners webinars
- New statistics policy
- Publishing names of handling Editors on accepted papers

Refining the Board and scope
- Redefined Table of Contents categories
- Subject Taxonomy
- New Consulting Editors from the military and elite sport
- New Assistant Reviews Editors
Looking forward

- Consolidate the mid-career researcher prize
- Increase number of invited editorials on key/current topics
- Make decisions regarding possible transition to Open Access
- Smooth hand over to the next EiC.
Simon Rallison
Director of Scientific Programmes, The Physiological Society

on behalf of

Tom Kleyman
Editor-in-Chief, Physiological Reports
Key metrics

- Over 1.37 million downloads in 2020 (up 19% on 2019)
- 2749 cites in 2020 (vs 2733 in 2019)
- Most accessed article (on adaptive response of muscle to loading) had >8000 downloads
- 2020 CiteScore 3.9 (vs 3.6 in 2019)
- CiteScore ranking 53/99 in Physiology (medical)
- 333 articles published in 2020 (down 4% on 2019)
- Submissions up 16% in 2020 vs 2019
- Number of transferred manuscripts 328 (vs 310 in 2019)
- Number of direct submissions 204 (vs 146 in 2019)
- Time to first decision 20.5 days (vs 18.4 days in 2019)
- Average time from acceptance to Early View publication 34 days
Looking back

- Extending coverage and reach by adding new supporter journals, most recently *Journal of General Physiology*
- Closer involvement of the Editorial Board
- Commissioning content
- Joint editorial initiatives with APS journals: current calls for papers on deconstructing organs and inter-organ communication
- Further safeguarding of research integrity
Looking forward

- Negotiating article transfer to *Phys Reports* from more physiology journals
- Wiley’s read-and-publish deals making Open Access easier for authors
- Benefiting from the Open Access citation advantage
- Engagement with early career researchers
- Getting an Impact Factor
Supporter journals
Outgoing General Trustees

Charlotte Haigh
University of Leeds
Leeds, UK

Elizabeth Sheader
University of Manchester
Manchester, UK

Stefan Trapp
University College London
London, UK
Outgoing Trustee Chairs

Deborah Baines
St George's University of London
London, UK

Susan Deuchars
University of Leeds
Leeds, UK
Member Forum 2021
Incoming General Trustees

Heidi de Wet
University of Oxford
Oxford, UK

Áine Kelly
Trinity College Dublin
Dublin, Ireland

Mike Tipton
University of Portsmouth
Portsmouth, UK
Incoming Trustee Chairs

Catherine Hall
Chair of Conferences Committee
University of Sussex, UK

Paul McLoughlin
Chair of Publications Committee
University College Dublin, Ireland
Member Forum 2021
Thank you for your participation
Rob Clarke Presentation Award winners 2020-2021

- **Aoife Slyne** University College Cork, Ireland (2020 winner)
  Respiratory muscle dysfunction in the mdx mouse model of muscular dystrophy: Role of NADPH oxidase (NOX)

- **Seán Kerr** Royal College of Surgeons Ireland (2020 winner)
  Investigating the effects of substrate stiffness of biodegradable polymers on astrocyte physiology

- **Nina Purvis** King's College London, UK (2020 winner)
  Preparedness for Surgical Emergencies on Mars

- **Rebecca Macpherson** University of Birmingham, UK (2020 winner)
  Senescence in end-stage liver disease: do senolytic drugs promote hepatic regeneration?

- **Eleanor Smith** University of Bath, UK (2020 winner, not in attendance)
  Nocturnal whey protein ingestion impairs postprandial glucose tolerance at breakfast

- **Drusus Johnson-Bonson** University of Bath, UK (2020 winner, not in attendance)
  The Role of Carbohydrate Balance in Acute, Exercise-Induced Improvements in Insulin Sensitivity in Healthy Adults

- **Keady Flynn** University of Bath, UK (2021 winner, not in attendance)
  Assessing the Effects of Stem Cell-based Scaffold Therapeutics on Neurons and Astrocytes in vitro for Spinal Cord Repair
Incoming Fellows

Federico Formenti
King’s College London, UK

Alun Williams
Manchester Metropolitan University, UK

Etain Tansey
Queen’s University Belfast, UK
Incoming Fellows

Sue Deuchars
University of Leeds, UK

Eric Flitney
Previously Northwestern University
Awards Ceremony 2021
Honorary Members

Christine Holt
University of Cambridge

David Willetts
Resolution Foundation

Fiona Watt
King’s College London

Maria Fitzgerald
University College London

Melanie Welham
Biotechnology and Biological Sciences Research Council

Kay Davies
University of Oxford

Carla Shatz
Stanford University, California, US
Awards Ceremony 2021
President’s Lecture 2021

Jessica U. Meir
2021

The Physiological Society

The President’s Medal

The Physiological Society