



UNDERSTANDING THE Physics of Life

August 2017 Newsletter

EPSRC

Pioneering research
and skills



Physics of Life Events

13-15

Sep

Nanofluidics in Biological Systems
Durham University
Co-sponsored by:



This workshop will bring together people from the life and physical sciences to discuss challenges and opportunities within the field of nanofluidics both in terms of fundamental scientific questions and strategies/methods to answer them. The workshop will focus on systems where unusual biophysics takes place, often beyond existing theories.

All are welcome to attend this event which is **FREE** (places allocated on first come, first served basis). There is the opportunity to submit abstracts for talks and posters. **Registration closing: 6 September.**

For more information on this event, including the latest programme detail follow the below link.

[Find out more and register for nanofluidics here](#)

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October

Physics of Life Town Meeting
Royal Society, London



This interdisciplinary meeting will showcase the Physics of Life network which is now in its second phase (PoLNET2; 2017-2020). The event will highlight the opportunities available when working across Biology and Physics as experienced by researchers, funders and industrial partners. There will be plenty of information available on future

PoLnet2 plans, how best to engage with thenetworks funding and events planned over the next 3 years. The programme involves a schedule of invited talks and open discussion.

Registration: All are welcome, registration is **FREE** (places allocated on first come, first serve basis). **Registration closing: 20 September.**

For more information on this event, including the latest programme detail follow the below link.

[Find out more and register for town meeting here](#)

Physics of Life funding opportunities

Physics of Life have several OPEN funding opportunities which are available to all to support events and collaborations on research areas that transcend the life and physical sciences.

*All funded physics of life events receive administrative support to organise the event

Over £90K in funding opportunities

Workshop funds



Physics of Life workshop fund

A call is open for Physics of Life members to submit applications for funding towards workshops on any topic transcending Physics and Biology to take place in 2018.

Key details:

- £4k available for 2 day workshops
- Workshops can be organised at any UK institution.
- The call for 2018 workshops is now OPEN.
- **Closing date: 19 September 2017**

Sandpit funds



Physics of Life Sandpit fund

Sandpits are small discussion forums designed to gather a small group of key researchers to support new collaboration and grant applications.

Key details:

- £5k available for 2 day sandpits (funds can be spent on organisation of the event as well as funding the travel of key European or international collaborators).
- Successful collaborations seeded from sandpits can receive > a further £5-10k to pump prime any proof of concept research in support of grant applications.
- This is an OPEN, all year call.

Physics of Life News



First Physics of Life Sandpit

The first Physics of Life sandpit took place in May 2017 in collaboration with Procter and Gamble at Durham University. The sandpit saw key researchers gather to address questions related to quantifying impact of airborne pollutants on the skin with a plan formulated for future grant applications

Quantum Biology

organised by Jim Al Khalili and John Joe McFadden at the University of Surrey.

The workshop convened a wide range of speakers and delegates from different fields, including molecular biologists, synthetic biologists, biochemists, physical chemists, quantum physicists and stakeholders and potential funders from dtsl and US Air Force. The nature of talks ensured discussions were diverse with a good deal of constructive criticism to sharpen research questions and methodologies within quantum Biology. A full online report from this meeting can be found here:

<http://www.physicsoflife.org.uk/workshop-reports.html>

IUPAB/EBSA conference

Physics of Life had a fantastic time at the IUPAB/EBSA conference in July in Edinburgh. To make its presence known, the network exhibited a stand for conference attendees to meet us and also presented a talk to summarise who we are and what we're up to! We hope the message is spreading far and wide that Physics of Life is back for its second phase until 2020 with lots of activity to keep an eye on.

Quantitative approaches to anti-microbial resistance

organised by Jamie Hobbs and Rosalind Allen at Edinburgh International Conference Centre. This workshop saw microbiologists, physicists and biophysicists gather to focus on the ever increasing threat posed by antimicrobial resistance to human populations. New and innovative solutions to this major 21st century challenge require a diversity of thought which communication across the disciplines will help create. Online report from this meeting is coming soon.

Other activities of interest

BioInformulation 4 September, University of Edinburgh, Kings Building Campus
The aim is to bring together industry and academic researchers working on understanding the use of biological materials in formulations and other composites, see:
<http://bioinformulation17.meeting-mojo.com/> registration is FREE

The Physics of Living Matter Symposium 12th Edition 14-15 September 2017, Cambridge. The theme of this year's symposium is "Basic Principles, Complex Systems."

The Non-coding Genome 13-16 September 2017, EMBL, Heidelberg, Germany.

MOFs and membranes: beyond scale up and stability 8 December, Bath

If you would like to advertise an event of interest to Physics of Life members, please email:
k.h.baker@dur.ac.uk.

Visit Physics of Life Website



