

19th IUPAB congress and 11th EBSA congress

16–20 July 2017

Edinburgh International Conference Centre, Edinburgh, UK



A world biophysics congress – a bridge between the physical and life sciences

The Institute of Physics and the British Biophysical Society, together with the International Union of Pure and Applied Biophysics and the European Biophysical Societies' Association, are jointly organising the 19th IUPAB congress and 11th EBSA congress in Edinburgh, UK.

All areas of contemporary biophysics will be covered in a varied programme, which will include:

- Plenary lectures from distinguished speakers, including Nobel Laureates
- More than 100 invited talks covering more than 30 areas of biophysics
- Contributed oral and poster presentations
- Poster awards
- An exhibition of related products and services
- Public engagement lecture
- Satellite meetings
- Bursaries

Plenary speakers

- Helmut Grubmüller (Max Planck Institute for Biophysical Chemistry, Germany)
- Terry Hwa (UCSD, USA)
- Robert J Lefkowitz (Nobel Laureate, Duke University, USA)
- Sheena Radford (University of Leeds, UK)
- Venki Ramakrishnan (Nobel Laureate, LMB Cambridge, UK)
- Petra Schwille (Max Planck Institute of Biochemistry, Germany)
- Sunney Xie (Harvard University, USA)

Exhibition

The exhibition will include companies providing tools and services to support all areas of biophysical research. The exhibition will be held alongside the congress from 16–18 July together with catering and posters.

Registration

The registration fees include access to the technical sessions, workshops, catering, receptions, the conference buffet dinner and all event material.

Public engagement lecture

Alzheimer's Disease: Addressing a Twenty-First Century Plague

By Christopher M Dobson

FRS: FMedSci, University of Cambridge, UK

This talk will discuss recent advances in our knowledge of the underlying molecular nature of Alzheimer's Disease, unravelled through biophysical and other methods, and how this knowledge is beginning to suggest new and rational therapeutic strategies by which to combat disease onset and progression.

For further information, visit the website at www.iupab2017.org

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Call for abstracts

Contributions for oral and poster presentations are invited. Abstracts of 1300 characters (max) should be submitted online by **24 March 2017**.

Key dates

Bursary application deadline:	10 March 2017
Poster award deadline:	24 March 2017
Abstract submission deadline:	24 March 2017
Early registration deadline:	14 April 2017
Registration deadline:	5 July 2017

Topics covered will include

- Active matter
- Applications in biomedical and materials science
- Biomimetic structures and systems
- Computational biophysics
- Correlative, multiscale and functional imaging
- Drug discovery and delivery
- Evolution, ecology, collective and emergent behaviour
- Experimental and computational approaches to protein design
- Forces in and between cells: filaments, membranes and walls
- Imaging molecules of life
- Imaging the cell
- Mechanosensing and mechanoregulation
- Membrane-active peptides
- Membrane permeation: channels
- Membrane permeation: transporters
- Modelling, inference, big data
- Molecular and cellular processes of energy transduction
- Molecular machinery
- Morphogenesis and development
- Motility and migration
- Multiscale biophysics of membranes
- Nanobiophysics
- Optogenetics and neural systems
- Physics of cancer
- Protein folding and assembly
- Protein misfolding
- Protein structure to function
- Protein–nucleic acid interactions
- Quantitative approaches to gene regulation
- Quantum biology
- Receptors and signalling
- Synthetic biology
- Systems biology
- Why disorder matters

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