



**BioDynamics 2013 – Where Biology, Medicine and Mathematics meet**  
**Engineer's House Conference Centre, Bristol, UK 11-13 September 2013**

**BioDynamics 2013** will be the first in a series of annual international workshops designed to bring together biologists, mathematicians, clinicians, physicists, and computer scientists who are interested in dynamical systems in the biological and medical sciences. These workshops will provide a unique forum for multidisciplinary interactions, which we hope will lead to rewarding collaborations between theoretical, experimental, and clinical scientists. This promises to provide an exciting opportunity for scientists to present their data in a multidisciplinary forum and hear how collaborations between biological scientists, clinicians and mathematicians can provide major conceptual advances in our understanding of complex systems.

The theme of **BioDynamics 2013** will be “rhythms in biological systems”. This meeting will consist of a “scene setting” afternoon, followed by 4 half-day sessions, each focusing on a particular time frame—very slow rhythms, circadian rhythms, ultradian rhythms, and very fast rhythms. Major areas that will be covered include basic and clinical neuroscience, endocrinology and cardiovascular science. There will be two keynote presentations in each session delivered by world-leading scientists, who will talk about their cutting-edge current research and highlight important future challenges within their field.

**Confirmed keynote speakers include**

- Professor Russell Foster, University of Oxford, UK
- Dr Michael Hastings, MRC Laboratory of Molecular Biology, Cambridge, UK
- Professor David Hazlerigg, University of Aberdeen, UK
- Professor Allan Herbison, University of Otago Centre for Neuroendocrinology, New Zealand
- Professor Kevin O’Byrne, King’s College, London, UK
- Professor David Rand, University of Warwick, UK
- Professor James Sneyd, University of Auckland, New Zealand

Each session will also feature a number of selected shorter talks, with plenty of time for informal discussion. **Abstracts are invited for both oral and poster presentation.**

|   | Fields   | Categories  |
|---|--|---|
| Authors can submit either completed work or work in progress in any combination of the following fields and categories: | Endocrinology<br>Neuroscience<br>Cardiovascular physiology<br>Cell signalling<br>Other (please give details) | Very slow rhythms (e.g. seasonal)<br>Circadian rhythms<br>Ultradian rhythms<br>Very fast rhythms (e.g. neuronal electrical oscillations)<br>Other (please give details) |

Poster sessions will provide an opportunity for people to present and discuss their work and will be on display throughout the workshop. Prizes awarded for the best posters from students and early-career scientists - junior scientists and clinicians are therefore encouraged to submit abstracts. **Deadline for abstracts is Friday 26 April 2013.**

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The main sponsor of the meeting is the Medical Research Council, with additional funding from other sources. As part of our commitment to public engagement we plan to host an interactive event within the meeting, further details of which will be published on the meeting website

**Scientific Programme Committee**

Professor Stafford Lightman (University of Bristol, UK)  
 Dr Francesca Spiga (University of Bristol, UK)  
 Professor Mike Shipston (Edinburgh, UK)

Professor John Terry (University of Exeter, UK)  
 Dr Jamie Walker (University of Bristol, UK)

Visit the website for further information and programme updates: **[www.bio-dynamics2013.org](http://www.bio-dynamics2013.org)**

Or contact the **BioDynamics 2013** Conference Secretariat:

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