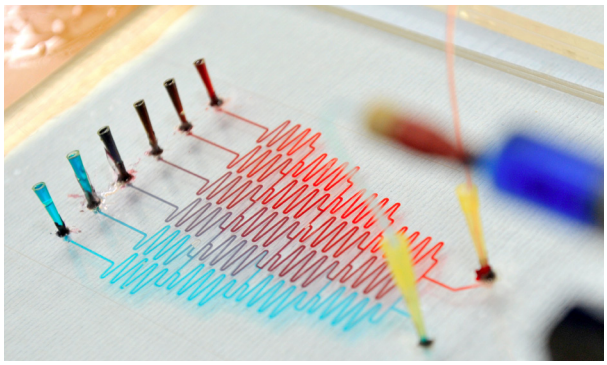
BIOCHEMICAL SOCIETY

A BIOCHEMICAL SOCIETY TRAINING EVENT

Lab-on-a-chip technology in biochemistry: a hands-on workshop

12-13 September 2019
Hull, UK



Lab-on-a-chip devices allow precise control over liquid handing at microscopic scales and are applied in anything that involves liquid handing, from enzyme-catalysed reaction chemistry to synthesis of smart biomaterials, point-of-care clinical diagnostics, and biomedical studies on cells and tissue.

This two-day training event will provide an overview of the current state-of-the-art approaches to lab-on-a-chip, from materials and fabrication to biochemical and biomedical research applications. With hands-on sessions to expand on the talks, this event will be a unique opportunity to explore what has been highlighted in recent years as a hot research topic in biomedicine and the biosciences. The programme will also include a session providing an industry perspective of these technologies, their clinical applications and 3R strategies for in vivo models.

Topics to be covered will include:
- Microfluidic chip design using AutoCAD software
- Chip fabrication methods using milling, laser cutting, hot press, and PDMS casting
- Magnetic particle extraction methods for DNA, circulating cancer cells, or pathogens isolation
- Cell- and tissue-on-chip platforms for biochemical analysis and fundamental biology
- Paper microfluidics for point-of-care diagnostics
- Implications of lab-on-a-chip technologies to 3R strategies: industry and clinical perspectives

Programme coordinators:
Dr Isabel Pires, University of Hull
Prof John Greenman, University of Hull
Prof Nicole Pamme, University of Hull

Find out more:
http://bit.ly/Lab-on-a-chip-2019

Early bird registration deadline
12 July 2019