Annie Cavanagh, Wellcome Images

McBain Medal Symposium: Self-assembled materials for biomedical applications

Thursday 10 January 2013

SCI HQ, London, UK

RSC | Advancing the Chemical Sciences

Organised by SCI's Colloid & Surface Chemistry Group and the RSC's Colloid & Interface Science Group

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13:30 Registration and refreshments

14:00 **Tailoring nanosize carriers for applications**
Prof Edman Tsang, University of Oxford

14:30 **Probing interactions between polymers and bio- interfaces and media**
Dr Peter Griffiths, Cardiff University

15:00 **Soft polymer adhesion and its relevance to mucoadhesion**
Prof Joseph Keddie, University of Surrey

15:30 Refreshments

16:00 **From polymers to nanomedicines**
Prof Ijeoma Uchegbu, University College London

16:30 **Nanomaterials and anti-inflammatory therapies**
Prof Nicola Tirelli, University of Manchester

17:00 **Self-assembled materials for biomedical applications**
Dr Vitaliy Khutoryanskiy, University of Reading

18:00 Closing remarks

McBain Medal and Lecture

The McBain Medal is an early-career award offered jointly by the two sponsoring groups. The 2012 McBain Lecture will be given by Dr Vitaliy Khutoryanskiy of the University of Reading. Dr Khutoryanskiy has rapidly gained an international reputation for his imaginative use of polymer and colloid science in the development of novel materials for biomedical applications. His research interests include water-soluble polymers and hydrogels, mucoadhesive polymeric materials, stimuli-responsive polymers and polymeric nanomaterials for applications in drug and gene delivery and coatings.

Synopsis

Talks from five distinguished guest speakers will be followed by the 2012 McBain Medal Lecture, the title of which provides that for the symposium.

Nanomedicine, the medical application of nanotechnology, is a new, diverse and rapidly-growing field. The colloid, polymer and interface sciences have their part to play, in areas like drug, protein, gene and peptide targeting and delivery, nanoparticle targeting, and the control of bioadhesion for delivery at mucus membranes, especially. Many soft-matter scientists are now involved in developing new concepts and materials applicable to nanomedicine in one way or another and the one-day symposium will show-case some of the latest work.

Attendees

Soft matter scientists and nano-technologists working on materials for biomedical applications, or planning to, apart, the meeting should appeal to scientists and technologists interested in novel materials and coatings more generally, since many of the technical principles, problems and challenges are transcendental, in spite of the unique challenges that biomedicine imposes.

Organisers

Prof Richard Buscall
Dr Cécile Dreiss

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Self-assembled materials for biomedical applications

10 Jan 2013 @ SCI HQ, London, UK

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