

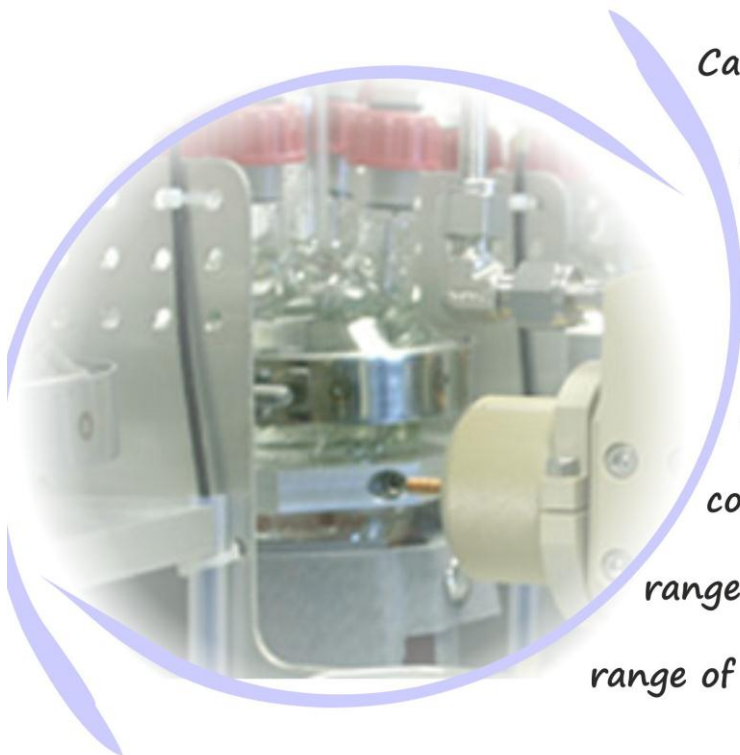
Dial-a-Molecule

An EPSRC Grand Challenge network

An EPSRC Dial-a-Molecule Grand Challenge theme meeting

Reactor Platforms for the 21st century lab

Synthesis-on-Demand at minimum waste



Can we develop the 'stem cell'-like reactor that is modular, flexible, automated and can synthesise a range of complex products by a given range of atoms under a range of conditions?

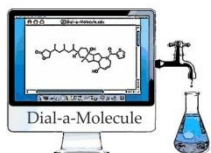
11-12 August 2011

GSK, Stevenage, UK

EPSRC
Engineering and Physical Sciences
Research Council



Register online:
www.dial-a-molecule.org/events/
email: dialamol@soton.ac.uk



Reaction Platforms for the 21st century lab: Synthesis-on-Demand at minimum waste

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Synthetic chemistry is still driven to fit available kit and new chemical processes are largely designed and executed without taking into consideration the best reactor configuration or importantly scalability for pilot or market scale production. This is a potentially game changing theme seeking to advance and redefine technology that is used in chemical synthesis. In particular, the aim is to define the near-, medium- and long-term prospects and impact of new innovative and integrated technology for carrying out synthesis as well as developing the business case for the adoption of the technology.

Topics covered:

- **Reactor Platforms**
- **Intelligent Feedback Control**
- **Networks of reactors**
- **Data collection and On-Line Reaction Analytics**
- **Information-rich experimentation**
- **Replication and Scalability**
- **Purification**

Can we develop the 'stem cell'-like reactor that is modular, flexible, automated and can synthesise a range of complex products by a given range of atoms under a range of conditions?

The **Dial-a-Molecule** Grand Challenge Network will be running an important 2-day meeting at **GSK's site at Stevenage** on **11th and 12th August 2011**.

The meeting will aim at:

- Capturing the needs of the community for next generation reactor platforms
- Gathering input from a cross section of the community for the development of the **Dial-A-Molecule** roadmap which will be used to advise funders and policy makers on future research directions and programmes
- Highlighting UK research strengths as well as gaps in the current research activity
- Developing community-driven collaborations with immediate action plans for research following the meeting

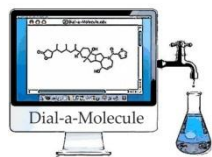
Benefits to attendees

- Contribute to the shaping of the national research agenda
- All contributors will be acknowledged in the formal documents of the theme
- Opportunity to participate in new collaborative and potentially game changing research
- Networking opportunities

The meeting will involve keynote presentations from invited experts as well as short *flash* presentations from attendees aiming at stimulating discussion and collaborations. On **day one** these will be followed by focused break-out sessions to define future research agendas. **Day two** will be the sandpit where those who are interested will be defining immediate research plans with grant proposal outlines by the end of the meeting.

To ensure a broad input we encourage participation from all relevant academic disciplines and from interested industrial partners. Colleagues with backgrounds in mechanical, chemical and electronic engineering as well as computer science and biological and life sciences are particularly welcome. Please circulate this invitation to any colleagues within your institutions who you feel may be interested.

Due to space issues, attendance at the meeting is restricted to ca. 30 delegates. Applications for the meeting are now invited by completing the attached form or by [online registration](#), no later than **Monday, 25th July 2011**. For further information please contact Dr. Harris Makatsoris (harris.makatsoris@brunel.ac.uk) or Prof. Asterios Gavriilidis (a.gavriilidis@ucl.ac.uk).



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Personal Details

First Name:

Last Name:

Email:

Phone:

Organization:

Department:

Position:

Address:

Please tell us why you are interested in the meeting (<100 words)

Briefly outline any particular areas of expertise/interest relevant to the meeting (<200 words)

Attendees are invited to give a 2-3 minute 'flash' presentation with one or two Powerpoint slides, about an area of their work likely to be linked to the challenge. Please indicate whether you would like to present. If you would like to present you will be asked to submit your slide a week in advance to simplify logistics.

Topic Title:

☐ Yes
☐ No

I would like to participate at the following days:

☐ Thursday, 11th August 2011

☐ Friday, 12th August 2011

Please return by **Monday 25th July 2011** to:

Bogdan Ibanescu, Dial-a-Molecule Network Assistant Coordinator.

Email: dialamol@soton.ac.uk

Post: School of Chemistry, University of Southampton, Highfield, Southampton, SO17 1BJ.

GSK, Stevenage Research Centre UK
11-12 July 2011