

Natural Products in the Bioeconomy

A collaboration-building workshop supported by
ScotCHEM, SULSA, and IBioIC



23rd October
10.30 – 18.00

Sir Duncan Rice Library
University of Aberdeen
Bedford Road, Aberdeen, AB24 3AA

Venue Information:

<https://bit.ly/2ov0hAV>

Register here:

<https://www.scotchem.ac.uk/natural-products-in-thebio-economy/>

Co-organisers: Dr Scott Lilley (ScotCHEM, University of St Andrews); Dr Katherine Duncan (University of Strathclyde); Dr Steven Asiala (IBioIC); Dr William MacDonald (ScotCHEM, University of St Andrews); Dr Andrew Lawrence (University of Edinburgh); Dr Allison Jackson (SULSA, University of Glasgow); Jill Inkster (SULSA, University of Glasgow); Dr Hai Deng (University of Aberdeen).

Meeting Schedule

- 10.30 - 10.50 Coffee and Registration
- 10.50 - 11.00 **Welcome and Introductions**
Dr Bill MacDonald, CEO, ScotCHEM
- 11.00 - 11.20 **[Prof Marcel Jaspars - University of Aberdeen](#)**
Modifying and Utilising Natural Products from Extremophiles
- 11.20 - 11.40 **[Dr Sharon Versteeg - Scientist, Ingenza](#)**
- 11.40 - 12.00 **[Dr Daniel Swan - NCIMB](#)**
NCIMB's culture collection as a resource for natural product discovery
- 12:00 - 12:15 **Six selected flash presentations (two minutes each)**
- 12.15 - 13.00 **Structured speed networking**
- 13.00 - 14.00 **Lunch and ECR poster session**
- 14.00 - 14.20 **[Dr Karl Burgess - University of Edinburgh](#)**
Applications of Metabolomics in Natural Product Analysis and Development
- 14.20 - 14.40 **[Neil Parry - Unilever](#)**
Building the biobased supply chains - examples from Homecare and the future material demands
- 14.40 - 15.00 **[Prof Rebecca Goss – University of St Andrews](#)**
- 15.00 - 15.20 **[Dr Nicola Crowhurst, GSK](#)**
Strain Improvement for Antibiotic Production
- 15.20 – 15.40 **[Dr Dianne Irwin, Syngenta](#)**
Using natural products to invent new chemicals for crop protection

15.40 – 16.00 [Dr Matthew Reeves, KTN](#)
Accessing the UK innovation ecosystem

16.00 - 17.00 **Future directions workshop**
Chair: [Prof Cherry Wainwright, Robert Gordon University](#)

Themes:

- A. *NP applications - Unilever*
- B. *Existing strain collections (CCAP/NCIMB) - Dr A. Lawrence*
- C. *NP database and platforms for analysis - Dr K. Duncan*
- D. *Comparative metabolomics and genomics methods for accelerated natural products prioritization - Dr G. MacDougall, Dr W. Alwood*
- E. *Biological-activity screening - Prof C. Wainwright*

Within your topic, please suggest areas of opportunity and the actions needed to address them.

The opportunity - 20mins

1. *Where are the technical opportunities?*
2. *Where are the funding opportunities?*

Who can provide solutions? - 20mins

1. *Which community, or communities, should address these opportunities?*
2. *How should the community be constituted? How should it communicate? Which capabilities do we need?*
3. *What does success look like?*

What actions can be taken? - 15min

1. *What action should be taken to address these opportunities? The research pools have resources to support this.*
2. *Are there areas opportunity not addressed by our 5 themes?*

17.00-17.10 **Closing remarks**

17.10-18.00 **Drinks reception**