Bridging microbial diversity and N-cycling

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Monday 4 July 2016

10:00 – 17:00 Registration

11:00 – 17:00 Workshop: Science policy

Chair: Christine Dodd, SfAM President

18:00 – 19:00 *Journal of Applied Microbiology* Lecture: The Diffusible Signal Factor (DSF) family of bacterial cell-cell signals

*Max Dow, University College Cork, Ireland*

19:00 – 20:00 Drinks reception and canapés

19:30 – 20:30 Students and Early Career Scientists’ ‘beach ball’ icebreaker, with canapés and wine

20:30 onwards Quiz night

Tuesday 5 July 2016

08:30 – 09:00 Registration

Session 1 Soil microbiology – gaseous nitrogen emissions

Chair: Max Dow, University College Cork, Ireland

09:00 – 09:35 N₂O reducing microbes and their importance as N₂O sinks

*Sara Hallin, Swedish University of Agricultural Sciences, Sweden*

09:35 – 10:10 Regulation of denitrification at the cellular level

*Lars Bakken, Norwegian University of Life Sciences, Norway*

10:10 – 10:25 Offered paper 1: Genetic and functional diversity of free-living, non-diazotrophic *Bradyrhizobium* from contrasting soils

*Frances Jones, Rothamsted Research, UK*

10:25 – 11:00 Tea, coffee and exhibition
11:00 – 11:35  Soil nitrogen emissions to the atmosphere – an agricultural perspective  
   Tom Misselbrook, Rothamsted Research, North Wyke, UK  

11:35 – 12:10  Copper control of bacterial nitrous oxide emission  
   David Richardson, University of East Anglia, UK  

12:10 – 13.00  Lunch, posters and exhibition  

Chair:  
   Brendan Gilmore, Queen’s University Belfast  

13.00 – 13:35  New single cell tools for functional analyses of microbes in their ecosystems  
   David Berry, University of Vienna, Austria  

13:35 – 14:10  Determination of N₂O processes in soil using stable isotope approaches  
   Reinhard Well, Johann Heinrich von Thünen Institute, Germany  

14:10 – 14:30  Tea, coffee, posters  

14:45 – 15:20  Bridging microbial community ecology and N-cycling  
   Laurent Philippot, INRA, Dijon, France  

15:20 – 15:55  The protein network of the denitrification respirasome of Pseudomonas aeruginosa  
   Dieter Jahn, Technische Universität Braunschweig, Germany  

15:55 – 17:00  Attended poster session  

17:00 – 18:00  Students and Early Career Scientists’ session: Writing skills  

17:00 – 19:00  Exhibition with wine, canapés and a competition  

19:00 onwards  Students and Early Career Scientists’ social event: Edinburgh walking tour  

   Wednesday 6 July 2016  

08:30 – 09:00  Registration  

Session 2  Plant-microbe interactions  

Chair:  
   Nicola Holden, The James Hutton Institute, UK
<table>
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<th>Time</th>
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| 09:00 – 09:35 | Cyclic-di-GMP signalling and virulence in the plant pathogen *Xanthomonas campestris*  
*Robert Ryan, University of Dundee, UK* |
| 09:35 – 10:10 | Evolution of plant bacteria to overcome stress  
*Robert Jackson, University of Reading, UK* |
| 10:10 – 11:00 | Attended poster session, tea, coffee and posters                      |
| 11:00 – 11:35 | Investigating the biology of plant infection by the rice blast fungus *Magnaporthe oryzae*  
*Nicholas Talbot, University of Exeter, UK* |
| 11:35 – 12:10 | Subversion of autophagy by the Irish potato famine pathogen *Phytophthora infestans*  
*Yasin Dagdas, The Sainsbury Laboratory, Norwich, UK* |
| 12:10 – 12:45 | Endophytes and their biotechnological uses  
*Gabriele Berg, Graz University of Technology, Austria* |
| 12:45 – 13:30 | Lunch, posters and networking                                          |
| Chair:        | *Sabrina Roberts, Food Standards Agency, UK*                           |
| 12:45 – 13:15 | Early Career Scientists Committee AGM                                  |
| 13:30 – 14:30 | Student member oral presentations                                     |
|              | *SfAM Award Lectures*                                                 |
| Chair:        | *Christine Dodd, SfAM President*                                      |
| 14:30 – 14:35 | Introduction to the New Lecturer Research Grant                       |
| 14:35 – 15:05 | *SfAM New Lecturer Research Grant Lecture: Following my gut feelings – from pathogens to probiotics and back*  
*Roy Sleator, Cork Institute of Technology, Ireland* |
| 15:05 – 15:35 | *SfAM New Lecturer Research Grant Lecture: New insights into oil biodegradation processes of deep water provinces*  
*Tony Gutierrez, Heriot-Watt University, Edinburgh, UK* |
| 15:35 – 16:00 | Tea, coffee and posters                                               |
| 16:00 – 16:05 | Introduction to the SfAM PhD Studentship Lecture                      |
| 16:05 – 16:35 | *SfAM PhD Studentship Lecture: Glycoprotein N-linked glycans as targets for antibody-based* |
detection of Campylobacters
Danielle Weaver, The University of Manchester, UK

16:35 –16:40  Introduction to the WH Pierce Prize
16:40 – 17:10  WH Pierce Prize Lecture
               TBC
17:15 – 17:45  Annual General Meeting
19:00 onwards  Drinks reception and conference dinner

Thursday 7 July 2016

08:30 – 09:00  Registration

Session 2 cont.  Plant-microbe interactions

Chair: Christine Dodd, SfAM President

09:00 – 09:35  Plants as alternate hosts for human and animal pathogens
               Nicola Holden, The James Hutton Institute, UK
09:35 – 09:50  Offered paper 2: Antibacterial, antifungal, anti-oomycete and anti-nematode secondary metabolites from rhizosphere bacteria and plant pathogens
               George Salmond, University of Cambridge, UK
09:50 – 10:25  Rhizosphere microbiology and plant health
               Andrzej Tkacz, University of Oxford, UK
10:25 – 11:00  Tea and coffee
11:00 – 11:35  Decoding the plant-microbiome language: new opportunities for pathogen control and biodiscovery
               Peer Schenk, University of Queensland, Australia
11:35 – 12:10  Rhizobium interactions with plants
               Allan Downie, John Innes Centre, UK
12:10 – 13:10  Lunch and depart