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Bridging microbial diversity and N-cycling

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SfAM Summer Conference 2016
Microbial interactions in the environment

4 – 7 July 2016
The Assembly Rooms, Edinburgh

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*

- 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