

Draft Logistics

6th Midlands Molecular Microbiology Meeting (M4) 2019

September 9/10th 2019



Venue:

**West Atrium and Auditorium of the Jubilee
Conference Centre
University of Nottingham**

<https://www.nottingham.ac.uk/conference/fac-mhs/lifesciences/m4/index.aspx>



#nottinghamM4

Programme at a Glance

Jubilee Conference Centre

University of Nottingham

Day	Time	Session
<i>Sept 9th</i>		<i>Polymicrobial interactions and microbial crowdsourcing</i>
	9.00 -10.30	Session 1
	10.30-11.15	Coffee with posters
	11.15-12.15	Session 2
	12.15-13.15	Lunch with posters
	13.15-15.15	Session 3
	15.15-16.00	Coffee with posters
	16.00-17.30	Session 4
	17.30-18.30	Early Career Researcher Led Panel Discussion 'Career Paths for microbiologists'
	19.00	Meal in Catering Atrium followed by Band in Newark Hall Bar
<i>Sept 10th</i>		<i>Signalling, virulence and antimicrobial resistance</i>
	9.00-10.30	Session 5
	10.30-11.15	Coffee with posters
	11.15-12.15	Session 6
	12.15-13.15	Lunch with posters
	13.15-15.15	Session 7
	15.15	Coffee with posters
	16.00-17.00	Session 8
	17.00	Open Lecture: Antimicrobial resistance
	18.00-19.00	Closing remarks and Wine Reception in West Atrium

Sessions 1-8 will be located in the Auditorium

Coffee, poster and wine reception will be located in the West Atrium

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Welcome and Background to M4 Conference

On behalf of the many people involved in the organization of this conference and the sponsors who have provided the financial support, you are welcomed to the 2019 Midlands Molecular Microbiology Meeting in Nottingham, affectionately known as the M4 conference.

The M4 meetings were started in 2014 to strengthen interactions and create opportunities for collaboration between Midland universities. The first M4 (Midlands Molecular Microbiology Meeting) was held at the University of Birmingham in September 2014, followed by the University of Nottingham (2015), University of Leicester (2016), University of Birmingham (2017) and last year at the University of Warwick (2018). In practice, there continues to be an audience drawn from further afield who attend the M4 meeting, attracted by the high quality science presented and convivial atmosphere.

This two day conference will provide talks and posters of applied, cutting-edge, interdisciplinary microbial research. This year's meeting will focus on cross-disciplinary talks covering applied and fundamental aspects of antimicrobial resistance and evolution, especially those within microbiomes. The sessions will cover microbial pathways which underpin cell envelope biogenesis, gene regulation, virulence in animal and plant hosts, plus biofilms. All of these processes offer novel antimicrobial targets, or can be exploited by industry.

The rationale of the meeting is to ensure that early career researchers (ECRs), at pre- and post doctoral levels, have the opportunity to promote their work to enable them to develop a network of researchers with related interests. Therefore, the majority of the talks have been selected from offered abstracts with the emphasis being placed upon the participation of ECRs. Poster sessions are a key feature of the meeting to ensure all attendees have the maximum opportunity to discuss their work with leading and new investigators in a socially conducive environment. To provide exposure to the poster presenters, each has been invited to deliver a 3 minute 'Flash' presentation to motivate the conference participants to engage broadly in research discussions. ECRs have also been invited to act as co-chairs, and have chosen the topic and constitution of a discussion panel that addresses an important concern, Career Options in Microbiology.

We are also delighted to welcome the winner of the Junior Awards in Microbiology series (University of Birmingham, www.jmtalks.com) to give a talk at this meeting.

We envision that this meeting will be important for networking with the aim to encourage increased collaboration, which is essential for high impact research. So, we encourage you all to ask questions in sessions and approach each other and discuss science.

To facilitate this, we have included a social evening on the first day with a meal followed by an informal evening entertained by a band that includes some of our scientific colleagues. We will also end the proceedings with an open wine reception in the elegant settings of the Jubilee Conference Centre.

If you have travelled from beyond the Midlands, we welcome you especially. We hope you will find new collaborators and strengthen existing interactions.

Finally, and very importantly, we thank all our sponsors for the support that they have provided to make this meeting possible. We hope the representatives that are in attendance will enjoy engagement with the community.

We hope you will be able to share excellent science, build networks and that the momentum of the M4 will continue for many years to come.

Full Programme

Day	Time	Session
Sept 9th		<i>Polymicrobial interactions and microbial crowdsourcing</i>
Session 1: CHAIR and ECR Co-chair TBC		
 Sponsored Speaker	9.00	Invited speaker 1: James McInerney (University of Nottingham) Pangenomic models and co-occurrence
	9.30	10 Flash posters (3 mins each) 2,4,6,8,10,12,14,16,18,20
	10.00	Offered oral: Augustinas Silale (University of Oxford) Characterisation of the bacterial DNA transporter involved in natural transformation
	10.15	Offered oral: Jonathan Humphreys (University of Nottingham) Clostridial strain degeneration: new approaches to an old problem
	10.30	Coffee with posters All even numbers
Session 2: CHAIR and ECR Co-chair TBC		
	11.15	Offered oral: Robeena Farzand (University of Leicester) PAPI-Kp: description of an integrative and conjugative element in <i>Klebsiella pneumoniae</i>, co-occurring and interacting with ICEKp
	11.30	Offered oral: Satpal Chodha (University of Sheffield) Molecular patterning of <i>Vibrio cholerae</i> chromosome segregation proteins
	11.45	10 Flash posters (3 mins each) 1,3,5,7,9,11,13,15,17,19
	12.15	Lunch with posters All odd numbers
Session 3: CHAIR TBA and ECR Co-chair Shaun Robertson		
 Sponsored Speaker	13.15	Invited speaker 2: Lindsay Hall (Quadram Institute, Norwich UK) Early life microbiota-host interactions
	13.45	10 Flash posters (3 mins each) 22,24,26,28,30,32,34,36,38,40
	14.15	Offered oral: Lillie Purser (University of Leicester) The role of air pollution and bacteria in COPD
	14.30	Offered oral: Sonali Singh (University of Nottingham) <i>Pseudomonas aeruginosa</i> Biofilm-associated Polysaccharide Psl Modulates Immunity through Engagement of C-type Lectin Receptors
 Sponsored Speaker	14.45	Invited speaker 3: Simon Foster (University of Sheffield) Microbial Crowdsourcing: <i>Staphylococcus aureus</i> Infection Dynamics
	15.15	Coffee with posters All even numbers

Session 4: CHAIR and ECR Co-chair TBC		
	16.00	Offered oral: Marwa Hassan (University of Warwick) Predicting antibiotic persistence and associated virulence in <i>Pseudomonas aeruginosa</i> biofilms from an ex-vivo perspective
	16.15	Offered oral: Ana da Silva (University of Nottingham) Understanding Phenotypic Diversity of <i>P. aeruginosa</i> in Chronic Diabetic Ulcers
	16.30	10 Flash posters (3 mins each) 21,23,25,27,29,31,33,35,37,39
 Sponsored Speaker	17.00	Invited speaker 4: Lesley Hoyles (Nottingham Trent University) Microbiomes investigated by microbiomics, transcriptomics and metabolomics
 Sponsored session	17.30	Early Career Researcher Led Panel Discussion 'Career Paths for microbiologists' Invited Panellists: Lindsay Hall, Quadrum Institute (Academic) Ben Swift, PDP Biotech (Biotech) Jo Slater-Jeffries, National Biofilm Innovation Centre (Knowledge transfer) Rachael Pearson, University of Nottingham (Public engagement) Chairs: Sonali Singh and Colman O'Cathail
 Sponsored session	18.30	Close and Meal in Catering atrium followed by Band in Newark Hall Bar
<i>Sept 10th</i>		
<i>Signalling, virulence and antimicrobial resistance</i>		
Session 5: CHAIR TBA and ECR Co-chair Manuel Romero		
 Sponsored Speaker	9.00	Invited speaker 5: Petra Dersch (University of Münster, Germany) RNA regulators in gastrointestinal bacteria
	9.30	20 Flash posters (3 mins each) 41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79
	10.30	Coffee with posters All odd numbers
Session 6: CHAIR and ECR Co-chair TBC		
	11.15	20 Flash posters (3 mins each) 42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78, 80
	12.15	Lunch with posters All even numbers

Session 7: CHAIR and ECR Co-chair TBC		
 Sponsored International Frontier Lecture	13.15	Invited speaker 6: Rikke Meyer (Aarhus University, iNANO, Denmark) Fundamental Mechanisms of bacterial adhesion and biofilm formation
	13.45	Offered oral: Louise Corscadden (University of Leicester) Air pollution differentially affects the <i>Staphylococcus aureus</i> oxidative stress response
	14.00	Offered oral: Josh McQuail (Imperial College, London) An unusual feature in the subcellular landscape of long-term nitrogen starved <i>Escherichia coli</i>
	14.15	Offered oral: Rebeca Bailo (University of Birmingham) Path-seq identifies an essential mycolate remodeling program for mycobacterial host adaptation
	14.30	Offered oral: Robert Cogger-Ward (University of Nottingham) A conserved protein, BcmA, mediates motility, biofilm formation, and host colonisation in Adherent Invasive <i>Escherichia coli</i>
 Sponsored Speaker	14.45	Invited speaker 7: Jake Malone (John Innes Centre, Norwich) Bacterial signalling during plant-microbe interactions
	15.15	Coffee with posters All odd numbers
Session 8: CHAIR and ECR Co-chair TBC		
	16.00	Offered oral: Michelle Buckner (University of Birmingham) Discovery of compounds which reduce transmission of antimicrobial resistance plasmids
	16.15	Offered oral: Joseph Wanford (University of Leicester) Hypervirulent, and MDR lineages of <i>Klebsiella</i> replicate in macrophages <i>in vitro</i>, in murine organs, and in an <i>ex vivo</i> model of porcine liver and spleen co-perfusion
	16.30	Offered oral: Rebekah Jones (University of Warwick) An intriguing link between membrane lipid remodelling and antimicrobial resistance in pathogen <i>Pseudomonas aeruginosa</i>
	16.45	Offered oral: Junior Awards in Microbiology (JAM) finalist Liam Rooney, (University of Strathclyde) https://thejamtalks.com/
 Sponsored Speaker	17.00	Open Lecture Invited speaker 8: Fernando Baquero (Ramón y Cajal University Hospital, Madrid) Individual-Health, One-Health and Global-Health in Antibiotic Resistance
 Sponsored open reception	18.00-19.00	Closing remarks and Wine Reception Registration through Eventbrite is free, but not included in the M4 meeting registration. Please use the link below to register. https://www.eventbrite.co.uk/e/open-lecture-by-professor-fernando-baquero-tickets-68592075745

Organizing Committee

- **Steve Atkinson**, University of Nottingham
- **Colman O’Cathail**, University of Nottingham (ECR)
- **Miguel Camara**, University of Nottingham
- **Sarah English**, University of Nottingham (Logistics)
- **Kim Hardie**, University of Nottingham (CONFERENCE CHAIR)
- **Stephan Heeb**, University of Nottingham
- **Phil Hill**, University of Nottingham
- **Laura Hoble**, University of Nottingham
- **Joe Ingram**, University of Nottingham (ECR)
- **Michael Loughlin**, Nottingham Trent University
- **Luisa Martinez-Pomares**, University of Nottingham
- **Samantha Mclean**, Nottingham Trent University
- **David Negus**, Nottingham Trent University
- **Shaun Robertson**, University of Nottingham (ECR)
- **Manuel Romero**, University of Nottingham (ECR)
- **Sonali Singh**, University of Nottingham (ECR)
- **Paul Williams**, University of Nottingham

Supporting Volunteers

- Charlotte May
- Natalia Romo Catalan
- TBA

Awards



JOURNAL OF
MEDICAL MICROBIOLOGY
Publishing for the community

Microbiology Society Journal of Medical Microbiology Poster Prize:

There will be two poster prizes for the top poster presentations
Each winner will receive a cash prize of £50 and a certificate.

Microbiology Society Journal of Medical Microbiology Oral Presentation Presentation Prize:

There will be two poster prizes for the top 15 minute oral presentation

Each winner will receive a cash prize of £100, a one-year membership of the Microbiology Society, and a certificate.

Practical Information



For Oral Presenters:

All speakers (including the discussion panel members) are requested to provide their slides either before the first talk of the morning or during lunch on the day that they are due to present. There will be someone at the lectern in the auditorium to help with this.

Slides should be formatted for widescreen: 16:9

Invited speakers are allocated 30 minutes for their talks (25 min + 5 Min Q&A).

Offered talks are allocated 15 minutes for their talks (12 min + 3 Min Q&A). There is no poster board associated with offered talks.

In the event that you would like to use your own computer for your talk, please bring along the cables that are required to connect your PC or Mac in case the audio-visual team do not have the appropriate connections.

For Poster Flash Poster Presentations

Flash Poster presenters are allocated a strict 3 min for their talk without any Q&A. It is important that slides are provided a minimum of three working days before the conference ie. **by 3rd September** since they will be combined into a single powerpoint file to ensure swift change overs. No more than 2 slides will be allowed per presenter. The chairs will enforce the timing of this session precisely, and to enable seamless presenter exchanges, we request that presenters form a line in order of delivery by standing along the side of the auditorium.

For Poster Board Presentations

All poster boards will have a number that corresponds with your abstract ID. Please locate this number on the boards and hang your poster at the beginning of the first day during registration. Please attend your poster

during the timeslots assigned in the programme. Posters should be removed from the boards by 18.00 on September 10th, 2019. Posters on boards after this time will not be returned to presenters. The organisers are not responsible for posters left on the boards or poster containers left unattended.

Poster dimensions:

Please prepare your poster according to the following guidelines:

Portrait style, **A0** size maximum. Measurements should not exceed a height of 1189mm (46.8 inches) and a width of 841mm (33.1 inches). (Poster boards are 2.1m high x 0.92m wide; 7ft high x 3ft wide).

Badges

Badges must be worn at all times for security purposes

Contact Information:

The University of Nottingham
University Park
Nottingham
NG7 2RD

Email: LS-M4Nottingham@exmail.nottingham.ac.uk

Dietary requirements

Every effort will be made to meet all dietary requirements. The information has been passed to the catering team in advance.

Drinks reception on day 2

Drinks will be served after the closing remarks in the West Atrium of the Jubilee Conference Centre until 19.00. For catering purposes, you are requested to indicate that you will be attending via the Eventbrite link below. There will be no charge, courtesy of financial support from the

University of Nottingham. <https://www.eventbrite.co.uk/e/open-lecture-by-professor-fernando-baquero-tickets-68592075745>

Evening meal on day 1

The evening meal will be served at 19.00 on September 9th 2019 in the Catering Atrium on the University of Nottingham Jubilee Campus. Sponsorship from Azotic has enabled us to provide some wine to accompany your meal and you will be able to purchase additional drinks if required from the foyer bar in the Jubilee Conference Hotel or Newark Hall bar.

The band 'The FLOW' comprised of Phil Hill, Cameron Alexander, Robin Hall and Gayle Straw will play two sets in the bar of Newark Hall on Jubilee Campus between 20.30 and 22.30 on September 9th 2019. There will be a cash bar for refreshments.

<http://theflow.rocks/>

Emergency contact information

Sarah English. LS-M4Nottingham@exmail.nottingham.ac.uk

Kim Hardie. Kim.Hardie@nottingham.ac.uk

Getting to the Conference Venue

Maps to the conference venue and other access information can be found from the links below.

<https://www.nottingham.ac.uk/about/visitorinformation/mapsanddirections/jubileecampus.aspx>

<https://www.nottingham.ac.uk/sharedresources/documents/mapjubileecampus.pdf>

Parking is by **permit only**, if you still require a permit please contact LS-M4Nottingham@exmail.nottingham.ac.uk with your registration details.

Registration

Upon arrival, please register at the Welcome desk and receive a copy of the full programme and your badge. To protect the environment, we will not

be printing this Conference Abstract Book, which will be available online on the website for you to download in advance and print out at your convenience

<https://www.nottingham.ac.uk/conference/fac-mhs/lifesciences/m4/index.aspx>

Session Etiquette

Whilst you are in a session, please mute all mobile phones and other electronic devices

Social Media

We welcome live tweeting and sharing by other social media as a means to disseminate information to the broader scientific community who are not in attendance, and to increase the visibility of the science communicated by our presenters.

Please use hashtag **#nottinghamM4** and include **@MicrobioSoc**, **@UniofNottingham**, **@ukbiofilms**, **@SfAMtweets**, **#JMedMicro**

We recognise that some presenters might consider their data to be sensitive, and if they do not wish details from their presentations to be shared we ask presenters to make an announcement to this effect at the beginning of their presentation or put a notification on their poster.

WIFI

TBA

Accommodation at Newark Hall

TBA

Accommodation at Jubilee Conference Centre

TBA