

From microbial interactions to new-concept biopesticides and biofertilizers

**PhD Summer Schools on
“Biofertilisers and sustainable
alternatives” and “Microbial ecology and
community ecology of MOs”**

**September 4-14, 2019
Newcastle and Nottingham (UK),
c/o University of Newcastle, University
of Nottingham and Azotic Technologies**

**Marie Skłodowska-Curie Actions (MSCA)
Innovative Training Networks (ITN)
H2020-MSCA-ITN-2016
EID-722642-INTERFUTURE**

Program overview

Date	Activity	Start	End
Wednesday September 4, 2019 Newcastle upon Tyne	Arrival in Newcastle		
Thursday September 5, 2019 Newcastle	Meet at Newcastle University at the main entrance of Agriculture Building (Kings Road, NE1 7RU), then departure to Nafferton Farm	9.30	10.00
	Principles, practices and regulations of Organic crop production (Paul Bilsborrow)	10.00	11.00
	Coffee break	11.00	11.30
	Advanced phenotyping - Ankush Prashar - n	11.30	13.00
	Lunch (provided)	13.00	14.00
	Visit to field trials (e.g. QLIF long-term field study on Organic vs Conventional production) → Please bring weather proof clothes/farm suitable clothes	14.00	16.30
	Departure from Nafferton Farm to town	16.30	17.00
Friday September 6, 2019 * Newcastle, Main Campus, King George VI Building, Howden Room	Principles, practices and regulations in organic Agriculture (cont'd) (Paul Bilsborrow)	9.00	10.30
	Coffee Break	10.30	11.00
	Nutrient management in Organic Agriculture (Leonidas Rempelos)	11.00	12.30
	Lunch (provided)	12.30	14.00
	Crop protection in organic Agriculture (Leonidas Rempelos)	14.00	15:30
	Coffee Break	15.30	16.00
	ECOBREED (Paul Bilsborrow)	16.00	16.30
	Discussion round of ESRs as preparation for SB meeting (only ESRs)	16.30	17.00
Saturday September 7, 2019 Newcastle	Day off for sight-seeing or trip to the coast		
Sunday September 8, 2019 Transfer	Travel to Nottingham (Minibus), Meeting in front of Agriculture Building	15.00	19.00
Monday September 9, 2019 Nottingham**	Nottingham Conference, official INTERFUTURE Topic "Biofertilisers and sustainable alternatives" attendance to 6th Midlands Molecular Microbiology Meeting **		

Tuesday September 10, 201 Nottingham	Nottingham Conference, official INTERFUTURE Topic "Biofertilisers and sustainable alternatives" attendance to 6th Midlands Molecular Microbiology Meeting **		
Wednesday September 11, 2019 Azotic	<p>Official INTERFUTURE Topic "Biofertilisers and sustainable alternatives", visit to Azotic Laboratories, Company Lecture "Developing Biofertilisers and sustainable alternatives to nitrogen fertilizers - <i>G. diazotrophicus</i>, a case study".</p> <p>9.45-10.00 – Meet Students in BioCity Car Park. Students will have to make their own way to Biocity.</p> <p>10.00 – 10.30: Talk by Commercial Director Of Azotic Technologies Mr Mike Panteli</p> <p>10.30- 10.45: Tea and Coffee</p> <p>10.45-11.30: Talk by founder of Azotic Technologies, Professor Edward (Ted) Cocking</p> <p>11.30-12.00: Tour of Azotic Technologies labs</p>	9.45	13.30
	Lunch (provided)	12.00	13.00
	Talk by Azotic Scientist, Dr. Nathalie Narraidoo and wrapping up session	13.00	13.30
	Bus leaves to Hounslow, Sutton Bonington Campus	13.30	14.00
	Visit to Hounsfield Facility for 3D-X-ray imaging at University of Nottingham, Sutton Bonington Campus	14.00	16.00
	Presentation "Imaging roots in-situ" and tour of facilities	16.00	17.00
	Transfer to Newcastle (Minibus)	17.00	21.00
Thursday September 12, 2019 Newcastle, Main Campus Hadrian building, Ford room	PM- Riccarda Moser: General Assembly, Supervisory Board → Connection via Skype with other participants, mind time shift (=10 am Central European Time)	9.00	10:30
	Coffee Break	10.30	11.00
	Michele Perazzolli: The plant microbiota engineering: ecological aspects of a next-generation tool for biological control	11.00	12.00
	Vincent Lefebvre du Prey (ITAKA): Application of microorganism consortia as biofertilisers	12:00	13:00
	Lunch (provided)	13:00	14:00
	Gabriel Castrillo (UNOT): Plant microbiota coordinate root diffusion barriers and ion homeostasis	14:00	15:00
	Salisa Suchitwarasan: The impact of crop management practices on root colonisation, species diversity and function of arbuscular mycorrhizal fungi from low- P potato trials	15:00	15:30

	Carl Samuel: Using DADA2 pipeline for microbial community analysis, case study	15:30	16:30
	Coffee Break	16:30	17:00
	Julia Cooper: Inoculation of potatoes using microbial consortia with the SOLace project	17:00	17:30
	Final Discussion	17:30	18:00
	Dinner at "The Botanist" (Monument Mall, NE1 7AL), meeting at the front door of the restaurant downstairs	19.00	
Friday September 13, 2019 Newcastle, Main Campus, Armstrong Building, Room 1.06	Workshop on "Micca" (MICrobial Community Analysis): https://micca.readthedocs.io/en/latest/ .	9.00	17.00
	Coffee break	10.30	11.00
	Workshop cont'd	11.00	12.30
	Lunch (provided)	12.30	13.30
	Workshop cont'd	13.30	15.00
	Coffee Break	15.00	15.30
Saturday September 14, 2019 or Sunday September 15, 2019	Workshop cont'd https://micca.readthedocs.io/en/latest/	15.30	17.00
	Departure (free weekend you can leave either Saturday or Sunday)		

*** General Assembly and Supervisory Board Meeting are mandatory activities for supervisors (at least one for each ESR and institution). Skype connection is also allowed.**

****Registration to the [6th Midlands Molecular Microbiology Meeting](#) is mandatory. Attendance is free of payment (Azotic sponsored). ESRs are invited to submit an abstract and then to prepare a poster to carry to the event.**

Attendance to all sessions is mandatory for ESRs

HOTEL Options in Newcastle from 4 September to 7 September 2019 and from 11 to 13/14 September 2019 (free choice on date of departure)

1) Sleeperz Hotel – central Newcastle

<https://www.sleeperz.com/newcastle>

2) Sandman Signature Hotel – 500m from the University

https://www.sandmansignature.co.uk/hot-deals/?gclid=EAlaIQobChMlvt7p9Ois4glVq7_tCh2apw0cEAAYASAAEgllhfD_BwE

3) Adelphi Hotel Jesmond

<https://the-adelphi-bed-breakfast-bed-breakfast-newcastle-upon-tyne.hotelmix.co.uk/>

4) Royal Station Hotel City Centre

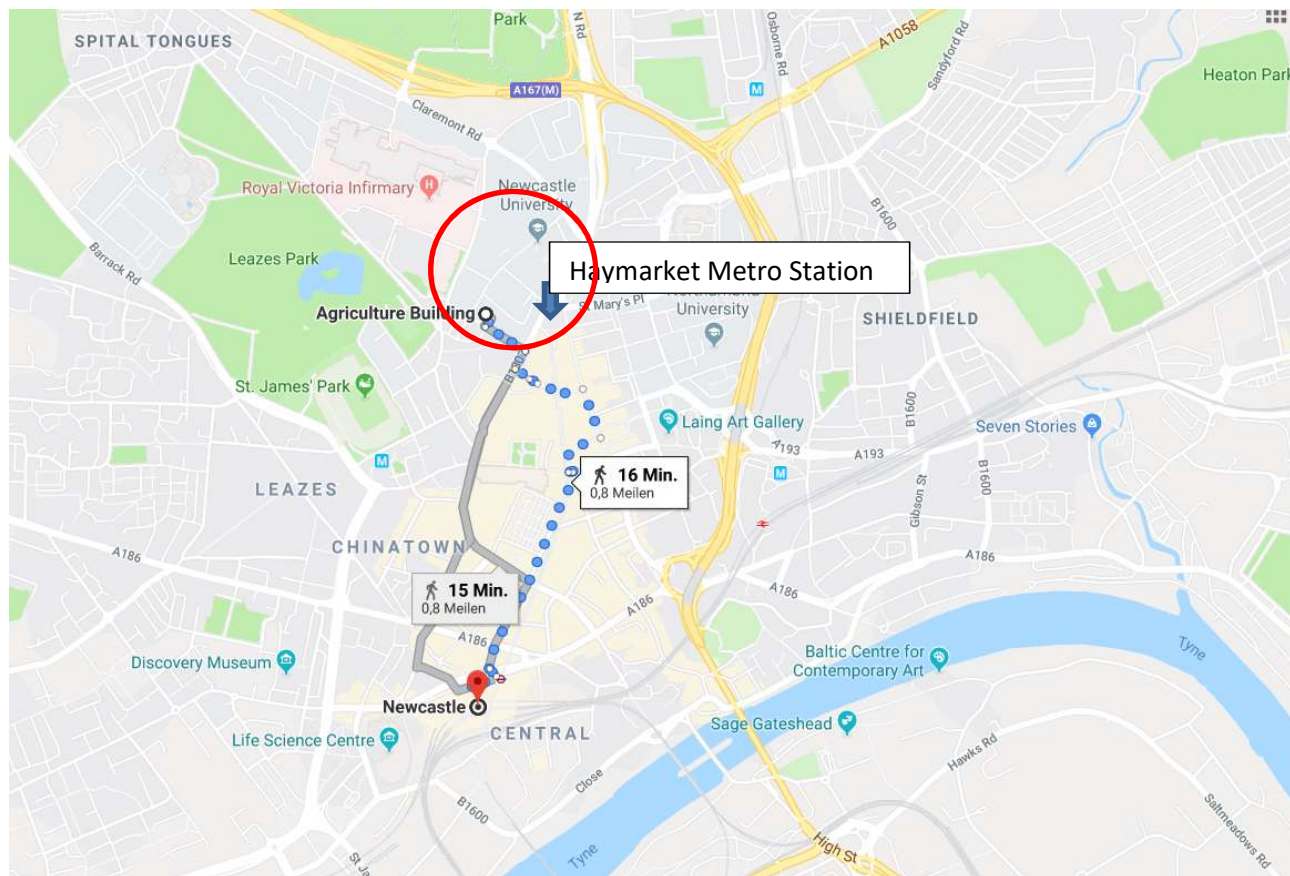
<https://www.thecairncollection.co.uk/hotels/royal-station-hotel/>

5) Motel One Newcastle

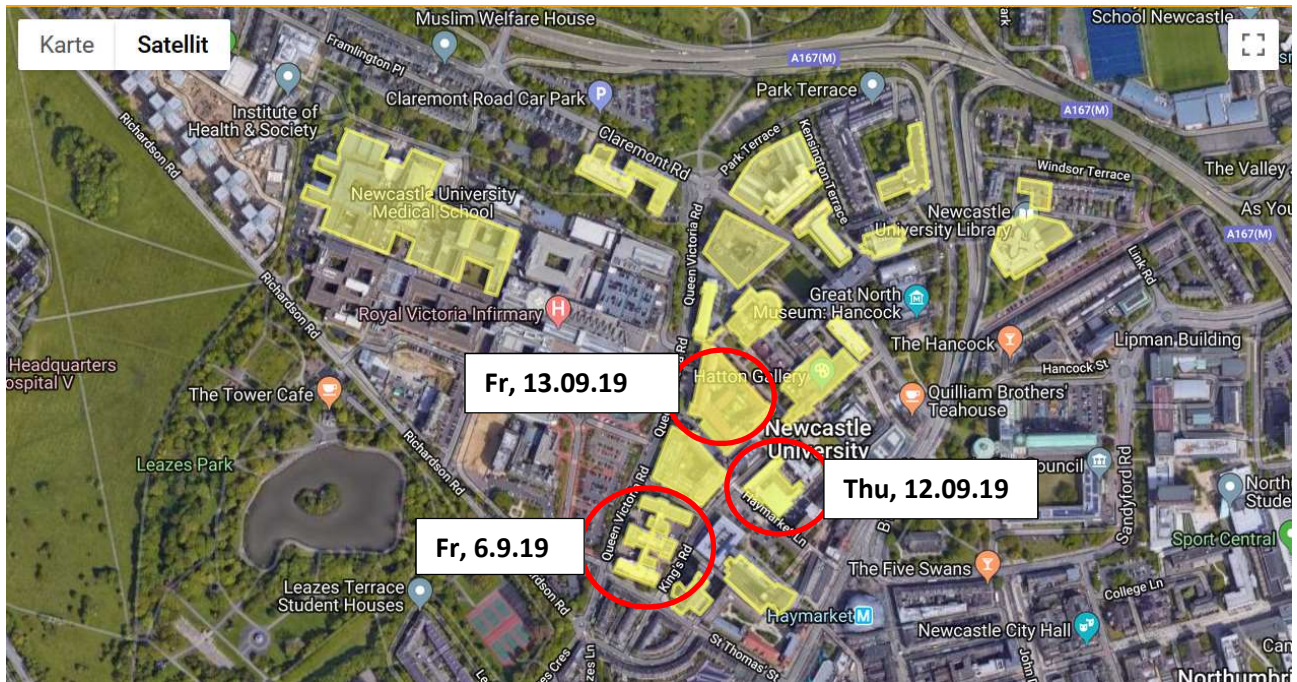
<https://www.motel-one.com/en/hotels/newcastle/>

How to get to the meeting point:

The Agriculture Building is part of the main campus of Newcastle University which is located in the city centre. The Campus can either be reached by Metro (Station: Haymarket) or by foot (ca. 20 min from central station).



Rooms on Newcastle University main campus



Friday, 6.9.2019, 9 am – 4pm:

Rooms within King George VI Building



KGVI.Howden

- [King George VI Building](#)

Room Spec

Description	Meeting room, Ground floor, KGVI building (Bookable through Timetable Services only email room-bookings@ncl.ac.uk)
Room Type	Events and Meeting Space
Floor	OG
Capacity	26

Thursday, 12.09.2019, from 10 am-6pm:

Rooms within Hadrian Building



HADB.FORD

- [Hadrian Building](#)

Room Spec

Description	Ford room,Ground floor, Hadrian Building
Room Type	Events and Meeting Space
Floor	Level 3
Capacity	19

Friday, 13.09.2019, 9am-5pm:

Rooms within Armstrong Building



ARMB.1.06

- [Armstrong Building](#)

Room Spec

Description	Seminar Room 1.06, 1st Floor Armstrong Building (University map ref:22)
Room Type	Standard Teaching Room in rows (less flexible)
Floor	First Floor
Capacity	60