

# Tackling emerging threats to animal health, food security and ecosystem resilience: the state of the art

Wednesday 9 – Thursday 10 March 2016

Satellite meeting organised by Professor Matthew Fisher, Professor Sarah Gurr and Professor Neil Gow

THE  
ROYAL  
SOCIETY

DAY 1							
SESSION 1 Chair: Sarah Gurr				SESSION 2 Chair: Robin May			
09:00	Welcome by the Royal Society and Matthew Fisher	11:00	COFFEE	13:30	<b>Sébastien Puechmaille</b> Investigations into the origins and spread of the causative agent of White Nose Disease in bats	15:30	TEA
09:05	<b>Rhys Farrer</b> Diverse infection strategies and immune responses to two-amphibian-infecting chytrid species						
09:30	<b>John W. Taylor</b> Adaptation and rates of change in fungi	11:30	Science in Progress Elevator pitches	14:00	<b>Gordon Brown</b> Talk title TBC	16:00	Science in Progress Poster session
10:00	<b>Daniel Henk</b> Fungal genomic flexibility			14:30	<b>Tom Richards</b> Transporter proteins and the evolution of osmotrophs		
10:30	<b>Eva Stuckenbrock</b> Comparative population genomics of closely related plant pathogens from natural grasslands and agro-ecosystems	12:30	LUNCH	15:00	<b>Pedro Crous</b> Fungal pathogens impact trade in food and fibre: the need to move beyond Linnaeus	17:00	CLOSE

**DAY 2**

<b>SESSION 3</b> Chair: Elaine Bignell				<b>SESSION 4</b> Chair: John W. Taylor			
<b>09:00</b>	<b>Robin May</b> Understanding Cryptococcus	<b>11:00</b>	<b>Stephanie Diezmann</b> Does the loss of heterozygosity in mitotic diploids enable adaptation?	<b>13:30</b>	<b>Mihai Netea</b> Trained immunity: a memory for innate host defence	<b>15:30</b>	<b>Trent Garner</b> Mitigating amphibian chytridiomycosis in the wild
<b>09:30</b>	<b>Frank Pasmans</b> Chytrid infections in European amphibians: multiple actors in a globalised world	<b>11:30</b>	<b>Nancy Keller</b> Secondary metabolites as virulence factors in fungal pathogens	<b>14:00</b>	<b>Nick Talbot</b> Tackling the threat of rice blast disease caused by the fungus <i>Magnaporthe oryzae</i>	<b>16:00</b>	<b>Thomas Harrison</b> Cryptococcal meningitis: New prevention and treatment strategies to reduce the global mortality burden
<b>10:00</b>	<b>Gero Steinberg</b> Cell biology of the <i>Septoria tritici</i> blotch fungus	<b>12:00</b>	<b>Pieter van West</b> Invasive oomycetes are a serious threat to our natural and man-made ecosystems	<b>14:30</b>	<b>Elaine Bignell</b> Modus operandi of an accidental fungal pathogen	<b>16:30</b>	<b>John Edwards</b> Vaccines and vaccinations in yeast
<b>10:30</b>	<b>COFFEE</b>	<b>12:30</b>	<b>LUNCH</b>	<b>15:00</b>	<b>TEA</b>	<b>17:00</b>	<b>Final remarks and close</b>

Draft programme – correct as of **3 March 2016** – subject to change