

**PROGRAMME**

<b>Date</b>	<b>Time</b>	<b>Session/Event/Venue</b>	<b>Speakers</b>	
Saturday 5 April	14.00 – 18.00	Registration Appleton Tower		
	19.00 – 21.00	Welcome Reception Museum of the Scots		
Sunday 6 April	09.00 – 09.15	Plenary Session 1 McEwan Hall	<b>Welcome address: David Archer (Nottingham, UK)</b> <b>Chair ECFG9 Organising Committee;</b> <b>Nicholas Clipson BMS President (Dublin, Ireland)</b>	
	09.15 – 10.15	Keynote Lecture	<b>09.15 Lorna Casselton (Oxford, UK)</b> Sex in fungi: revelations of genomic analysis	
	10.15 - 11.00	Refreshment break Teviot Row Building	<b>Chair: Sheila Unkles (St Andrews, UK)</b>	
	11.00 – 13.15			<b>11.00 Nick Talbot (Exeter, UK)</b> Investigating the biology of plant infection by the rice blast fungus <i>Magnaporthe grisea</i> using functional genomics
				<b>11.45 Al Brown (Aberdeen, UK)</b> Molecular adaptation of <i>Candida albicans</i> to its human host
				<b>12.30 Francis Martin (Nancy, France)</b> The genome of <i>Laccaria bicolor</i> provides insights into mycorrhizal symbiosis
	13.15 – 14.45	Lunch and Posters Lunch in Teviot Row Posters in Appleton Tower	Posters to be mounted by lunchtime and authors to be attendance from 17.30 – 19.00. Please remove posters at the end of the session or not later than 10.30 on April 7 <b>Functional and comparative genomics; Plant-fungal interactions; Post-translational regulation and signalling</b>	
	14.45 – 18.15	Parallel Symposia Appleton Tower	<b>1. Functional and comparative genomics</b> <b>Chairs: Ed Louis, Steve Oliver, Jens Nielsen</b>	
16.15 – 16.45	Refreshment break Appleton Tower		<b>14.45 Steve Oliver (Cambridge, UK)</b> Yeasts and filamentous fungi, the great divide?	
			<b>15.15 Jens Nielsen (Gothenburg, Sweden)</b> Comparative metabolic analysis of Aspergilli at the genome level	
			<b>15.45 Scott Baker (Richland, USA)</b> <i>Aspergillus niger</i> genomics: a tale of two strains	
			<b>16.45 Judith Berman (Minneapolis, USA)</b> Global transcription regulation and genome organization in <i>Candida albicans</i>	
			<b>17.15 Alex Lichius (Edinburgh, UK)</b> Building networks: functional gene analysis during hyphal fusion in <i>Neurospora crassa</i>	
			<b>17.30 Jan Schirawski (Marburg, Germany)</b> Comparative genomics as tool for the identification of species-specific virulence factors in smut fungi	
			<b>17.45 Kim Hammond-Kosack (Harpenden, UK)</b> Novel ways to explore sequenced fungal genomes	
			<b>18.00 Peter van de Vondervoort (Delft, The Netherlands)</b> Insights in short term evolution of <i>Aspergillus niger</i> strains	

## 2. Plant-fungal interactions

**Chairs: Nick Talbot, Gillian Turgeon**

### 14.45 David Greenshields (Norwich, UK)

Roles for iron in fungal pathogenicity and plant defence

### 15.15 Hans van Etten (Tucson, USA)

Evolution of plant antibiotic synthesis and antibiotic resistance in plant-microbe interactions: pisatin as a model.

### 15.45 Regine Kahmann (Marburg, Germany)

How the secreted effector proteins of *Ustilago maydis* shape the interaction with the host

### 16.45 Prasanna Kankanala (Manhattan, Kansas, USA)

Molecular and cellular analyses of biotrophic invasion of rice cells by the blast fungus

### 17.15 Linda Johnson (Palmerston North, New Zealand)

A novel extracellular siderophore from *Epichloë festucae* is essential for grass mutualism

### 17.30 Bernard Dumas (Castanet-Tolosan, France)

Role of STE12-like transcription factors in the production of microbial effectors inducing plant immunity in *Colletotrichum*-Legume interactions

### 17.45 Isabel Fudal (Versailles, France)

*Leptosphaeria maculans* avirulence gene AvrLm4-7 confers a dual recognition specificity by the Rlm4 and Rlm7 resistance genes of oilseed rape, and circumvents Rlm4-mediated recognition through a single amino acid change

### 18.00 Natalia Reqena (Karlsruhe, Germany)

Arbuscular mycorrhizal effectors triggering the plant symbiotic program

## 3 Post-translational regulation and signalling

**Chairs: Gerhard Braus, Kees van den Hondel**

### 14.45 Steve Harris (Lincoln, USA)

Apical dominance in fungal hyphae: the primacy of the tip

### 15.15 Arthur Ram (Leiden, The Netherlands)

Cell wall dynamics in *Aspergillus niger*

### 15.45 Gerhard Braus (Göttingen, Germany)

Protein degradation and fungal development

### 16.45 Fatima Silva (Murcia, Spain)

Ubiquitylation without degradation of a WC-1-like activator mediates repression of carotenogenesis by a fungal ring-finger protein

### 17.00 Stefan Irniger (Hannover, Germany)

The IME2-related protein kinase ImeB inhibits sexual development in *Aspergillus nidulans*

### 17.15 América Hervás-Aguilar (Madrid, Spain)

Direct involvement of the proteasome in PacC processing

### 17.30 Sara Tucker (Norwich, UK)

An RNA binding protein from *Magnaporthe oryzae* and its role in pathogenicity

### 17.45 Magdalena Mos (Liverpool, UK)

Investigation of post-translational processing during nitrogen metabolism in *Aspergillus nidulans*

### 18.00 Elena Perez-Nadales (Cordoba, Spain)

Msb2, a putative membrane mucin functioning in signalling and pathogenesis of *Fusarium oxysporum*

16.15 – 16.45

Refreshment break  
Appleton Tower

16.15 – 16.45

Refreshment break  
Appleton Tower

	17.30 – 19.00	Poster Session 1 Appleton Tower	<b>Functional and comparative genomics; Plant-fungal interactions; Post-translational regulation and signalling</b>
Monday 7 April	09.00 - 12.30	Plenary Session 2 McEwan Hall	<b>Chair: Jim Kinghorn (St Andrews, UK)</b> <b>09.00 Miguel Peñalva (Madrid, Spain)</b> The fungal pH signal transduction pathway and its intimacies with endocytosis <b>09.45 Nick Read (Edinburgh, UK)</b> Developmental pathways from the conidium of <i>Neurospora crassa</i> <b>11.15 Gero Steinberg (Exeter, UK)</b> The cytoskeleton in hyphal growth <b>12.00 Stephen Osmani (Columbus, USA)</b> Mitotic regulation of nuclear structure in <i>Aspergillus nidulans</i>
	10.30 – 11.15	Refreshment break	
	12.45 – 14.00	Lunch and Posters Lunch in Teviot Row Posters in Appleton Tower	Posters to be mounted by 12.30 and authors to be attendance from 17.30 – 19.00. Please remove posters at the end of that session or not later than 9.30 on April 8 <b>Animal-fungal interactions; Secondary metabolism; Regulation of gene expression</b>
	14.00 – 17.00	Parallel Symposia Appleton Tower	<b>4. Animal-fungal interactions</b> <b>Chairs: Neil Gow, Christophe d'Enfert</b> <b>14.00 William Goldman (St. Louis, USA)</b> Phase-Specific Genes and Intracellular Survival Strategies of <i>Histoplasma capsulatum</i> . <b>14.30 Guilhem Janbon (Paris, France)</b> UGE1 and UGE2 regulate the UDP-glucose/UDP-galactose equilibrium in <i>Cryptococcus neoformans</i> <b>15.00 Julian Naglik (London, UK)</b> Epithelial innate immune responses to <i>Candida albicans</i> . <b>16.00 Matthias Brock (Jena, Germany)</b> Impact of fungal metabolism on host infection: universal targets for new antifungals? <b>16.30 Sebastian Pilsyk (Warsaw, Poland)</b> The <i>pigP</i> gene, an <i>Aspergillus nidulans</i> ortholog of a human gene involved in down syndrome. <b>16.45 Franziska Lessing (Jena, Germany)</b> Defence of <i>Aspergillus fumigatus</i> against reactive oxygen species mediated by AfYap1 <b>17.00 Paul Bowyer (Manchester, UK)</b> Microevolution of <i>Aspergillus fumigatus</i> in Aspergillomas <b>17.15 Christophe D'Enfert (Paris, France)</b> <i>Candida albicans</i> internalization recruits the endocytosis machinery of host cells
	15.30 – 16.00	Refreshment break Appleton Tower	
			<b>5. Secondary metabolism</b> <b>Chairs: Geoff Turner, Paul Tudzynski</b> <b>14.00 Russell Cox (Bristol, UK)</b> Hybrid polyketide synthase - non-ribosomal peptide synthetases (PKS-NRPS) in fungi <b>14.30 Axel Brakhage (Jena, Germany)</b> Genome mining for secondary metabolites. <b>15.00 Carlos García-Estrada (Leon, Spain)</b> Expression and peroxisomal targeting of the IAT (isopenicillin N acyltransferase) and IAT-like

			enzymes of <i>Penicillium chrysogenum</i> .
			<b>16.00 Muriel Viaud (Paris, France)</b>
15.30 – 16.00	Refreshment break Appleton Tower		Secondary metabolism gene clusters in <i>Botrytis cinerea</i> : a high potential for sesquiterpene biosynthesis
			<b>16.30 Robert Proctor (Peoria, USA)</b>
			Variation in TRI1 in thirteen trichothecene-producing species of <i>Fusarium</i> : evidence for a complex evolutionary history of a mycotoxin
			<b>16.45 Philipp Wiemann (Munster, Germany)</b>
			Global regulation of bikaverin biosynthesis in <i>Fusarium fujikuroi</i>
			<b>17.00 Sanjay Saikia (Palmerston North, New Zealand)</b>
			Subcellular localisation of two pathway-specific geranylgeranyl diphosphate synthases in the filamentous fungus <i>Penicillium paxilli</i>
			<b>17.15 William Nierman (Rockville, USA)</b>
			Genomic insights into the chemical diversity of the opportunistic human pathogen, <i>Penicillium marneffeii</i> , and its close saprophytic relative, <i>Talaromyces stipitatus</i>
			<b>6. Regulation of gene expression</b>
			<i>Charis: Mark Caddick, Christian Kubicek</i>
			<b>14.00 Astrid Stricker and Robert Mach (Vienna, Austria)</b>
			Transcriptional regulation of hydrolase expression: lessons from the industrially important fungus <i>Trichoderma reesei</i> .
			<b>14.30 Peter Hortschansky (Jena, Germany)</b>
			Novel mechanisms of redox and iron regulation of fungal transcription factors.
			<b>15.00 Michael Hynes (Melbourne, Australia)</b>
			Transcription factors controlling the utilisation of gluconeogenic carbon sources.
			<b>16.00 Matthew Sachs (Beaverton, USA)</b>
			Post-transcriptional control of gene expression in <i>Neurospora</i>
			<b>16.30 Katharyn Sue (Armidale, Australia)</b>
			Expression profile of Xprg; a regulator of the response to starvation in <i>Aspergillus nidulans</i>
			<b>16.45 Kazuo Shishido (Yokohama, Japan)</b>
			Unusual binding of the basidiomycete <i>Lentinula edodes</i> CDC5 to a newly isolated target gene cooperatively with a novel interacting protein CIPB
			<b>17.00 Igor Morozov (Liverpool, UK)</b>
			The PopB deadenylase mediates nitrogen metabolite signalled transcript degradation
			<b>17.15 Agnieszka Dzikowska (Warsaw, Poland)</b>
			Two GATA factors AREA and AREB participate in nitrogen metabolite repression of arginine catabolism genes in <i>Aspergillus nidulans</i>
			<b>Animal-fungal interactions; Secondary metabolism; Regulation of gene expression</b>
	17.30 – 19.00	Poster Session 2 Appleton Tower	
	19.30 – 20.30	Whisky Tasting Playfair Library, Old College	
Tuesday 8 April	09.00 – 10.30	Plenary Session 3 McEwan Hall	<i>Chair: Kees van den Hondel (Leiden, The Netherlands)</i>
			<b>09.00 Martha Merrow (Groningen, The Netherlands)</b>
			The clock in the cell: <i>Neurospora</i> as a window on clocks in “higher” organisms
			<b>09.45 Kathy Borkovich (Riverside, USA)</b>

		The role of G proteins and two component regulatory systems in <i>Neurospora</i> sexual reproduction
10.30 – 11.00	Refreshment break	
11.00 – 11.30	Announcements McEwan Hall	Posters to be mounted by 11.00 and authors to be attendance from 11.00 until 14.00 (allowing for a lunch-break).
11.30 – 14.00	Poster Session 3 Posters in Appleton Tower	<b>Fungal Biotechnology; Hyphal growth and morphogenesis; Evolutionary and population biology</b>
12.00 – 14.00	Lunch Teviot Row	
14.00 – 17.30	Parallel Symposia Appleton Tower	<p><b>7. Fungal Biotechnology</b>  <b>Chairs: Geoff Robson, Merja Pentillä</b>  <b>14.00 Masayuki Machida (Tsukuba, Japan)</b>  Transcriptional regulation of <i>Aspergillus oryzae</i> genes and fermentation  <b>14.30 Marco van den Berg (Delft, The Netherlands)</b>  <i>Penicillium chrysogenum</i>; what is the genomic secret behind penicillin production?  <b>15.00 Tiina Pakula (Espoo, Finland)</b>  Genome-wide analyses for identification of factors affecting protein production in <i>Trichoderma reesei</i>.  <b>16.00 Tamas Papp (Szeged, Hungary)</b>  Production of oxygenated beta-carotene derivatives by modified <i>Mucor circinelloides</i>  <b>16.15 Robbert Damveld (Delft, The Netherlands)</b>  The contribution of the <i>Aspergillus niger</i> genome sequence and annotation to the discovery of novel products  <b>16.30 Takahiro Shintani (Sendai, Japan)</b>  Cellular responses to the expression of aberrant secretory proteins in <i>Aspergillus oryzae</i>  <b>16.45 Benjamin Nitsche (Leiden, The Netherlands)</b>  Deceiving <i>Aspergillus niger</i> to illuminate new putative antifungal compounds from natural extracts and their targets  <b>17.00 Levente Karaffa (Debrecen, Hungary)</b>  Lack of aldose 1-epimerase in <i>Hypocrea jecorina</i> is a key to cellulase gene expression on lactose  <b>17.15 Antonio Pisabarro (Pamplona, Spain)</b>  Quantitative linkage mapping of lignin-degrading enzymatic activities in <i>Pleurotus ostreatus</i></p> <p><b>8. Hyphal growth and morphogenesis</b>  <b>Chairs Nick Read, Marc-Henri Lebrun</b>  <b>14.00 Brian Shaw (Texas, USA)</b>  Apically localised fimbrin couples endocytosis and hyphal tip growth  <b>14.30 Meritzel Riquelme (Ensenada, Mexico)</b>  Localization of chitin synthases during hyphal tip growth in <i>Neurospora</i>.  <b>15.00 Richard O'Connell (Cologne, Germany)</b>  Infection-related morphogenesis and host invasion by the hemibiotroph <i>Colletotrichum higginsianum</i>  <b>16.00 Alex Brand (Aberdeen, UK)</b>  Calcium signalling and directional growth of <i>Candida albicans</i> hyphae</p>
15.30 – 16.00	Refreshment break Appleton Tower	

**16.30 Gabriela Roca (Edinburgh, UK)**

Nuclear dynamics and mitosis in *Neurospora crassa*

**16.45 Yvonne Rolke (Muenster, Germany)**

The small GTPase Rac and the Pak kinase Cla4 in *Claviceps purpurea*: interaction and impact on polarity, development and pathogenicity

**17.00 Norio Takeshita (Karlsruhe, Germany)**

Apical sterol-rich membranes are essential for localizing cell end markers that determine growth directionality in the filamentous fungus *Aspergillus nidulans*

**17.15 Veronica Vese-Jimenez (Aberdeen, UK)**

Influence of vacuolar inheritance in the growth and cell cycle progression of *Candida albicans*

**9. Evolutionary and population biology**

*Chairs: Paul Dyer, Stephanie Pöggeler*

**14.00 Rytas Vilgalys (Durham, USA)**

The Fungal Tree of Life: new insights revealed through studies of phylogeny.

**14.30 Gillian Turgeon (Ithaca, USA)**

Structure and evolution of Ascomycete mating mode.

**15.00 Matthew Fisher (London, UK)**

Linking spatial and multilocus genotype data within the global mapping tools demonstrated by the *Batrachochytrium dendrobatidis* and *Cryptococcus neoformans* databases

**16.00 Stefanie Pöggeler (Göttingen, Germany)**

Evolutionary aspects of sexual reproduction in filamentous ascomycetes.

**16.30 Magnus Karlsson (Uppsala, Sweden)**

Comparative evolutionary histories of the fungal chitinase gene family reveal non-random size expansions and contractions due to adaptive natural selection

**16.45 Anne van Diepeningen (Wageningen, The Netherlands)**

Calorie restriction increases reproductive life span and postpones mtDNA instability in *Podospora anserina*

**17.00 Matthieu Paoletti (Bordeaux, France)**

Dynamic evolution of a set of non self recognition genes in *Podospora anserina*

**17.15 Christophe Basse (Marburg, Germany)**

Investigating mitochondrial inheritance during the sexual cycle of *Ustilago maydis*

15.30 – 16.00

Refreshment break  
Appleton Tower

19.00 for 20.00

Conference Dinner  
Dynamic Earth