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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

27 February - 1 March 2014 - Madrid, Spain

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## POSTER LIST

POSTER NUMBER	ABSTRACT TITLE & LEAD AUTHOR	POSTER SESSION
1	<b>The clinical relevance of <i>Aspergillus</i> isolation from respiratory tract samples &amp; detection of <i>Aspergillus</i> galactomannan antigen in serum of patients with acute exacerbation of COPD</b> MS Fathi	1
2	<b>A ten-year survey of general hospital corridors fungal aero-contamination: reliable sentinel to predict fungal exposure risk?</b> AP Bellanger	1
3	<b>A systematic comparison of pre-treatment procedures and DNA extraction for the standardization of aspergillosis real-time PCR diagnostic</b> B Greiderer-Kleinlercher	1
4	<b>Determination of the ideal specimen for the detection of <i>Aspergillus</i> during invasive aspergillosis</b> B Greiderer-Kleinlercher	1
5	<b>First diagnostic of invasive aspergillosis in Algeria by galactomannan test</b> M Chekiri	1
6	POSTER WITHDRAWN	
7	<b>Diagnosing invasive pulmonary aspergillosis in ICU patients: the role of bronchoalveolar lavage lateral-flow device test</b> M Hoenigl	1
8	<b>Factors associated with low posaconazole plasma concentrations and impact of structured patient education</b> M Hoenigl	1
9	<b>Efficacy of antifungal therapy with inhaled itraconazole against murine invasive pulmonary aspergillosis with azole-low susceptible <i>Aspergillus fumigatus</i></b> M Yoshida	1
10	POSTER WITHDRAWN	
11	<b>Insulation <i>Aspergillum</i> Spp. with vegetarian food</b> I Zurak	1
12	<b>Diagnosis of invasive aspergillosis (IA) in HIV infected patients</b> B Denis	
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
13	<b>Environmental study of azole-resistant <i>Aspergillus fumigatus</i> with TR34/L98H mutations in the cyp51A gene in Iran</b> H Badali	

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27 February - 1 March 2014 - Madrid, Spain

---

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14	<b>Anti-fungal activity of <i>Uvariadendron calophyllum</i> fractions</b> EZ Menkem	1
15	<b>Antifungal activity of <i>Aloe vera</i> extract against pathogenic species of <i>Aspergillus</i> isolated from Kathmandu, Nepal</b> US Khwakhali	1
16	<b>The fungi of the genus <i>Aspergillus</i> in lung cavities of tuberculosis patients: a species spectrum and susceptibility to antimycotics</b> A Kulko	1
17	<b>Multi-azole resistant aspergillosis due to TR<sub>34</sub>/L98H <i>Aspergillus fumigatus</i> in a tertiary care hospital in Delhi, India, 2009-2012</b> A Chowdhary	1
18	<b>Voriconazole resistant <i>Aspergillus fumigatus</i> carrying TR<sub>46</sub>/Y121F/T289A mutation from the Indian environment</b> C Sharma	1
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
19	<b>Influence of hypoxia on antifungal susceptibility, sterol pattern and biomarker release of <i>Aspergillus</i> spp.</b> U Binder	1
20	<b>Fitness of <i>A. fumigatus</i> Cyp51A triazole resistant strains</b> I Valsecchi	1
21	<b>Isolation and identification of <i>Aspergillus</i> spp, other mould and yeast of contagious skin necrosis in camels (<i>Camelus dromedarius</i>) in Gadarif state, Sudan</b> G Abdalla	1
22	<b>Diagnosis and treatment combination of invasive aspergillosis and mucormycosis in hematological patients in Saint-Petersburg, Russia</b> S Khostelidi	1
23	<b>Baseline parameters of survival in chronic pulmonary aspergillosis</b> D Lowes	1
24	<b>DNA based aspergillosis diagnostics in Hungary; state of the art and further challenges</b> M Paholcsek	1
25	<b><i>Aspergillus fumigatus</i> in an Irish cystic fibrosis patient cohort; epidemiology and antifungal susceptibility</b> K Dunne	1
26	<b>Monitoring of <i>Aspergillus fumigatus</i> development by quantitative PCR and galactomannan enzyme immunoassay from lung tissues of intra-tracheally infected turkeys (<i>Meleagris gallopavo</i>)</b> E Melloul	1
27	<b>Comparison of <i>Aspergillus</i> precipitin with quantitative <i>Aspergillus</i> IgG assay</b> Y Fujita	1

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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

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---

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28	<b>Molecular epidemiology of <i>Aspergillus</i> nosocomial infections a novel restriction enzyme</b> K Diba	1
29	<b>Two cases of successful treatment of histologically proved chronic necrotizing pulmonary aspergillosis</b> NN Klimko	1
30	<b>Pulmonary colonization by <i>Aspergillus fumigatus</i> and serum specific IgG against this fungus in patients with tuberculosis</b> MT Hedayati	1
31	<b>Detection of bismethylgliotoxin in serum from patients with probable aspergillosis: validation of the biomarker and development of an ELISA test</b> EM Galvez	1
32	<b>Effect of ghrelin for prevention in murine invasive pulmonary aspergillosis model</b> K Takeda	1
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
33	<b>Combination of invasive aspergillosis and <i>Pneumocystis jirovecii</i> pneumonia in hematological patients</b> NN Klimko	1
34	<b>Lectins of human probiotic bacteria influence biorhythmic landscapes of human biofilms "<i>Candida</i> – <i>Aspergillus</i>/<i>Penicillium</i>": resistant in time lysis regions possessing synergistic broadened antimicrobial spectrum</b> V Lakhtin*	1
35	<b>Clinical risk factors and bronchoscopic features of invasive aspergillosis in Intensive Care Unit patients</b> S Khodavaisy*	1
36	<b><i>In vitro</i> combination therapy of isavuconazole against medically important <i>Aspergillus</i> spp.</b> TJ Walsh	1
37	<b><i>Aspergillus</i> section <i>Circumdati</i> – underestimated pathogens?</b> R Sabino	1
38	<b>Identification of <i>Aspergillus fumigatus</i> wall compounds that affect activity and function of human platelets</b> C Speth	1
	<i>NOTE: This abstract has also been selected for Oral Presentation</i>	
39	<b>Fungus-driven opsonization of platelets might influence the pathology of invasive aspergillosis</b> G Rambach	1

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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

27 February - 1 March 2014 - Madrid, Spain

---

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40	<b>Study of the <i>mtfA</i> transcription factor in the opportunistic fungal pathogen <i>Aspergillus fumigatus</i></b> TD Smith  <i>NOTE: Abstract also selected for Oral Presentation</i>	1
41	<b>The bioinformatics and molecular approaches for identification of novel drug targets against the human fungal pathogen <i>Aspergillus fumigatus</i></b> S Malek Zadeh	1
42	<b>Induction of oxidative stress response in <i>Aspergillus fumigatus</i> when exposed to caspofungin</b> A Eshwika	1
43	<b>Sulphur metabolism affects <i>Aspergillus fumigatus</i> pathogenesis</b> J Amich	1
44	<b>Differential regulation of the host response to <i>Aspergillus fumigatus</i> by NOD receptors</b> MS Gresnigt  <i>NOTE: Abstract also selected for Oral Presentation</i>	1
45	<b>Sequential role of MyD88 and CARD9 in neutrophil recruitment during respiratory fungal infection</b> A Jhingran	1
46	<b>Vitamin D effect on invasive aspergillosis</b> C Sirivoranankul	1
47	<b>Isolation and identification of airbourne fungi and their relation to allergic disease in Sulaimani city, Iraq</b> NA Ramadan	1
48	<b>MALDI-TOF-mass-spectrometry of protein extracts for ascertainment of phylogenetic relationships between clinical isolates of <i>Aspergillus fumigatus</i> and <i>A. niger</i></b> IA Riabinin	1
49	<b><i>Aspergillus fumigatus</i> biofilm and the effect of <i>Pseudomonas aeruginosa</i> phenotypes</b> JC Penner	1
50	<b>Characterization of <i>Aspergillus</i> species isolated from cereals in aflotoxigenic hot zones in Kenya</b> OMM Mashedi	1
51	<b><i>Pseudomonas aeruginosa</i> inhibition of <i>Aspergillus fumigatus</i> is dependent on the source, phenotype and growth conditions of the bacterium</b> JA Ferreira	1
52	<b>Identification of genes regulating cell wall permeability and antifungal responses in <i>Aspergillus fumigatus</i></b> S Raj	1

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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

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---

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53	<b>Deacetylation of <i>Aspergillus fumigatus</i> galactosaminogalactan is required for adherence and virulence</b> MJ Lee	1
54	<b>Isolation and molecular identification of <i>Aspergillus</i> spp. from ICU, indoor and outdoor environments of hospitals, northern Iran</b> A Nasrollahi Omran	1
55	<b>Molecular characterization of <i>Aspergillus fumigatus</i> CrzA targets by chromatin immunoprecipitation - DNA sequence (ChIP-seq)</b> GH Goldman	1
56	<b>Hypoxia promotes danger-mediated inflammation via RAGE in cystic fibrosis</b> RG Iannitti	1
57	<b>IL-1 blockade as a potential therapeutic target in aspergillosis</b> A De Luca	1
58	<b><i>Aspergillus fumigatus</i> CalA binds to <math>\beta</math>1 integrins and mediates host cell invasion and virulence</b> H Liu  <i>NOTE: Abstract also selected for Oral Presentation</i>	1
59	<b>Transcriptional regulation of the hypoxia response in <i>Aspergillus fumigatus</i> by a family of sterol regulatory element binding proteins</b> RA Cramer	1
60	<b>Molecular detection of <i>Aspergillus fumigatus</i> and section <i>Fumigati</i> by multiplex real time PCR using ITS and <math>\beta</math>-tubuline sequences</b> JV Fernandez-Molina*, A Abad-Diaz-de-Cerio, M Sueiro-Olivares, A Pellón, A Ramirez-Garcia, J Garaizar, J Pemán, FL Hernando, A Rementeria  <i>NOTE: Abstract also selected for Oral Presentation</i>	1
61	<b>Signalling process and activation of SltA, a transcription factor involved in cation/alkalinity stress response</b> L Mellado*, HN Arst, EA Espeso	1
62	<b>Role of <i>Aspergillus nidulans</i> SltA transcription factor and protein kinase HalA in a murine model of invasive aspergillosis</b> P Hernandez-Ortiz	1
63	<b>The role of protein kinases in <i>Aspergillus fumigatus</i> hypoxia adaptation and virulence</b> SR Beattie	1
64	<b>Efficacy of PTX3 and posaconazole combination in a rat model of invasive pulmonary aspergillosis</b> G Salvatori	1
65	<b>Platelet-rich plasma modulates the immune response of dendritic cells and macrophages in <i>Aspergillus fumigatus</i> infections</b> K Czakai	1

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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

27 February - 1 March 2014 - Madrid, Spain

---

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66	<b>Hypoxia and hypoxia-inducible factor 1<math>\alpha</math> modulate the response of human dendritic cells against <i>Aspergillus fumigatus</i></b> M Fliesser	1
67	<b>The <math>\beta</math>-1,3-glucanase ENG families of <i>Aspergillus fumigatus</i> are important for conidial cell wall morphogenesis</b> I Mouyna	1
68	<b>A novel transcriptional regulator AtrR of <i>Aspergillus fumigatus</i> is required for azole resistance, hypoxia growth, and expression of ABC transporter gene <i>cdr1B</i></b> D Hagiwara  <i>NOTE: Abstract also selected for Oral Presentation</i>	1
69	<b>Prevalence of cryptic species of <i>Aspergillus</i> isolated from clinical samples in Brazil</b> SS Gonçaves	1
70	<b>Characterization the <i>rtfA</i> gene in <i>Aspergillus fumigatus</i></b> AM Calvo	1
71	<b>Unusual forms of chronic pulmonary aspergillosis in patients with solid tumors</b> M Peghin	1
72	<b>Complementarity of conventional and molecular methods in the assessment of fungal contamination caused by <i>Aspergillus fumigatus</i> complex in one Portuguese composting plant</b> C Viegas	1
73	<b>Efficacy and toxicity in clinical practice of antifungal combination therapy for proven or probable invasive mold diseases in hematopoietic stem cell transplantation</b> A Candoni	2
74	<b>Posaconazole plasma concentrations: correlation of early trough levels (day 4) with steady-state concentrations</b> M Hoenigl	2
75	<b>Beta-D-glucan for guidance of antifungal therapy at the ICU: a retrospective evaluation in a real life setting</b> M Hoenigl	2
76	ABSTRACT WITHDRAWN	
77	<b>AFLP genotyping, <i>in vitro</i> antifungal susceptibility and evaluation of antifungal combinations of amphotericin B, voriconazole and anidulafungin against 126 clinical <i>Aspergillus terreus</i> species complex isolates from a tertiary care Chest Hospital, Delhi, India</b> A Chowdhary	2
78	<b><i>Galleria mellonella</i> as alternative model to study the <i>in vivo</i> efficacy of amphotericin B against <i>Aspergillus terreus</i> infections and its influence on larval immune response</b> E Maurer	2

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---

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79	<b>Control of azole resistance <i>Aspergillus fumigatus</i> by using of RNAi based on cyp51A gene</b> B Mousavi	2
80	<b>Study the antifungal activity of new imidazole, benzimidazoles, triazoles, benzotriazoles and tetrazoles derivatives against <i>Aspergillus flavus</i> and <i>Aspergillus fumigatus</i></b> K Zomorodian	2
81	<b>Investigation on airborne fungi in sheep houses</b> WG Abdalla	2
82	<b>Random amplified polymorphic DNA as a novel method for making a link between the <i>Aspergillus</i> clinical and hospital environmental isolates</b> K Diba	2
83	<b><i>Aspergillus terreus</i> as an emerging cause for pulmonary fungus ball: a case report</b> A Rezaei-Matehkolaei	2
84	<b><i>In vivo</i> manipulation of lung oxygen content to reduce fungal growth during murine invasive pulmonary aspergillosis</b> RA Cramer  <i>NOTE: Abstract also selected for Oral Presentation</i>	2
85	<b>Antifungal susceptibility and the frequency of <i>Aspergillus fumigatus</i>-related species of clinical strains collected as "<i>A. fumigatus</i>" from various area in Japan</b> A Watanabe	2
86	<b>The subClinical environmental investigations have proven to provide diagnostic leads to the clinicians. Mycoses involving <i>Aspergillus</i> and other genera. Case studies, exposure assessment and findings</b> J Dumanov*	2
87	<b>Suitability of bis(methyltio)gliotoxin for invasive pulmonary aspergillosis diagnosis</b> M Vidal	2
88	<b>Coinfection of invasive pulmonary aspergillosis and <i>Pneumocystis jirovecii</i> in severely immunocompromised patients: a diagnostic and clinical challenge</b> M Reinwald	2
89	<b>Monitoring <i>Aspergillus</i> biomarkers: a two centres approach</b> J Springer	2
90	<b>Combination of invasive aspergillosis and invasive candidiasis in hematological patients</b> E Shagdileeva	2
91	<b>Antifungal activities of herbal plants essential oils against <i>Aspergillus</i> species</b> K Pakshir	2

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# 6<sup>th</sup> ADVANCES AGAINST ASPERGILLOSIS

27 February - 1 March 2014 - Madrid, Spain

---

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92	<b><i>In vitro</i> antifungal susceptibility testing of clinical isolates of <i>Aspergillus flavus</i> against tree triazoles</b> S Khodavaisy	2
93	<b>Evaluation of the <i>in vitro</i> potency of itraconazole, voriconazole, and posaconazole and resistance in <i>Aspergillus</i> isolates from the United States</b> NP Wiederhold	1
94	<b>The use of the serum galactomannan assay in high-risk hematology patients on primary prophylaxis with posaconazole: towards an efficient diagnostic strategy</b> I Sánchez-Ortega	2
95	<b>Direct detection of an <i>Aspergillus fumigatus</i>-specific breath volatile organic metabolite profile for the diagnosis of invasive aspergillosis</b> S Koo  <i>NOTE: Abstract also selected for Oral Presentation</i>	2
96	<b>Rapid discrimination of <i>Aspergillus fumigatus</i> <i>cyp51A</i> resistance mutations by pyrosequencing</b> L Novak Frazer	2
97	<b>Detection of <i>Aspergillus</i> antibodies by a new indirect haemagglutination assay</b> MD Richardson	2
98	<b><i>Aspergillus</i> as a cause of fungal empyema thoracis: experience of a Cancer Center</b> JM Munita	2
99	<b>Mycological profile of fungal sinusitis: a retrospective study over a 7-year period in a tertiary care hospital in Riyadh, Saudi Arabia</b> AM Albarrag	2
100	<b><i>Aspergillus</i> pulmonary nodules; presentation, radiology, and histology features</b> EG Muldoon	2
101	<b>Combination of <i>Aspergillus</i> mitochondrial and ribosomal QPCR for early diagnosis of invasive aspergillosis in hematology patients</b> L Millon	2
102	<b>Galactomannan testing of serum and bronchoalveolar lavage fluid for diagnosis of invasive aspergillosis in different hematological patients in Saint-Petersburg, Russia</b> SM Ignatyeva	2
103	<b>The temporal sequence of the transition from asthma through allergic broncho-pulmonary aspergillosis to chronic pulmonary aspergillosis</b> D Lowes  <i>NOTE: Abstract also selected for Oral Presentation</i>	2
104	<b>Susceptibility of clinical isolates of <i>Aspergillus</i> spp. from Russia to amphotericin B and itraconazole</b> NV Vasilyeva	2



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---

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105	<b><i>Aspergillus</i> species is a frequent finding in the sputum of Iranian CF-patients</b> H Badali	2
106	<b>Pharmacokinetics and efficacy of isavuconazole for treatment of experimental invasive pulmonary aspergillosis</b> R Petraitiene, V Petraitis, PW Moradi, GE Strauss, BT Huertas, A Katragkou, E Petraityte, TJ Walsh	2
107	<b>Co-infection of probable invasive pulmonary aspergillosis and cutaneous <i>Fusarium</i> infection in a patient with pyoderma gangrenosum: a case report</b> A Abdollahi	2
108	<b>Antifungal drug interactions database and apps for iPhone and Android</b> GT Atherton	2
109	<b>The increase of the antimycotic effect of nystatin on <i>Aspergillus</i> species due to microbial exoenzymes</b> NP Sachivkina	2
110	<b>Comparison of <i>Aspergillus</i> species-complexes detected in different environmental settings</b> R Sabino	1
111	<b>Noncanonical autophagy is a target of fungal cell wall melanin</b> T Akoumianaki  <i>NOTE: Abstract also selected for Oral Presentation</i>	2
112	<b>Identification of the DNA sequence to which binds the ZafA transcriptional activator of zinc homeostasis in <i>Aspergillus fumigatus</i></b> R Vicentefranqueira	2
113	<b>Effect of pH and zinc availability on PacC processing in <i>Aspergillus fumigatus</i></b> H Toledo	2
114	<b>The role of caspase 1 inflammasome and IL-18 during colonization infection</b> B Ralph	2
115	<b>Epithelial invasion of <i>Aspergillus fumigatus</i> is genetically regulated and requires the transcription factor PacC</b> M Bertuzzi	2
116	<b>Modification of exopolysaccharide composition can increase the virulence of non-pathogenic <i>Aspergillus</i> species</b> MJ Lee  <i>NOTE: Abstract also selected for Oral Presentation</i>	2
117	<b>FIBCD1 binds to <i>Aspergillus fumigatus</i> chitin and modulates the inflammatory response induced by cell wall polysaccharides, proteases and intact organism</b> LK Dubey	2

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---

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118	<b>Neutrophil S100A8/A9 (calprotectin) zinc chelation regulates <i>Aspergillus fumigatus</i> hyphal growth <i>in vitro</i> and in a murine model of corneal infection</b> HL Clark	2
119	<b>Development and application of rapid gene silencing system using diced siRNAs in <i>Aspergillus</i> spp.</b> N Kalleda	2
120	<b>Polo-like kinase regulates colony growth, conidiation, and cell polarity in <i>Aspergillus fumigatus</i></b> T Umeyama	2
121	<b>New customized expression microarray for <i>Aspergillus fumigatus</i>: effect of temperature on the transcriptome during the earliest steps of germination</b> M Sueiro-Olivares	2
122	<b>The interplay between the microbiota and mycobiota in the human lower respiratory airways</b> L Pitzurra	2
123	<b>Lysine acetylation as a novel approach to compromise Hsp90 function in virulence and antifungal resistance in <i>Aspergillus fumigatus</i></b> F Lamoth	2
124	<b>Digital droplet PCR: a promising method for rare events detection for invasive aspergillosis diagnosis</b> B Greiderer-Kleinlercher	2
125	<b>Mortality due to invasive aspergillosis in graft-versus-host disease after experimental allogeneic bone marrow transplantation can be reduced by transfer of donor CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells</b> B Echtenacher	2
126	<b>Characterization of human natural killer cell receptors recognizing <i>Aspergillus fumigatus</i></b> S Brueggemann	2
127	<b>Impaired Th1 and Th17 immunity in chronic pulmonary aspergillosis</b> R Doffinger	2
128	<b>Structural characterization of the new immunosuppressive galactosaminogalactan produced by <i>Aspergillus fumigatus</i></b> T Fontaine	2
129	<b>Hypoxia inducible factor 1 alpha is required for pulmonary innate immune response to <i>Aspergillus fumigatus</i></b> KM Shepardson	2
130	<b><i>Aspergillus fumigatus</i> – deciphering the role of the chitin synthase families I and II by multiple gene targeting deletion</b> V Aimaganianda	2

*NOTE: Abstract also selected for Oral Presentation*

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---

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131	<b>Understanding the role of septins in <i>Aspergillus fumigatus</i> growth and development</b> JM Vargas-Muniz	2
132	<b>Differential upregulation of surface dectin-1 expression on sputum neutrophils in CF-ABPA</b> RB Moss	2
133	<b>Effect of <math>\beta</math>-glucan supplementation on the growth and cell wall structure of <i>Aspergillus</i> spp.</b> K Ishibashi	2
134	<b>How does the phylogenetic species concept correlate with biological characteristics of the pathogenic species in <i>Aspergillus</i> section <i>Fumigati</i>?</b> JA Sugui	2
135	<b>Induction of MUC5AC expression to <i>Aspergillus fumigatus</i> in airway epithelial cells and suppressive effects brought about macrolide antibacterial agents</b> K Hirano	2
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
136	<b><math>\alpha</math>-Glucanase inhibits conidial agglutination of <i>Aspergillus fumigatus</i> and promote inflammatory cytokine production from THP-1</b> S Ide	2
137	<b>Activation and evasion of innate immunity by <i>Aspergillus fumigatus</i></b> SGE Braem	2
138	<b><i>Aspergillus fumigatus</i> and <i>Aspergillus terreus</i> virulence in the <i>Galleria mellonella</i> insect model</b> K Dunne	2
139	<b>The ZrfC alkaline zinc transporter is required for <i>Aspergillus fumigatus</i> virulence and its growth in the presence of the Zn/Mn-chelating protein calprotectin</b> J Amich	2
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
140	<b>New insights into the pathogenesis of invasive pulmonary aspergillosis: real time imaging of hypoxia and inflammation</b> O Ibrahim-Granet	2
141	<b>Mid1/Cch1/Yvc1 calcium channels are involved in <i>Aspergillus fumigatus</i> virulence</b> GH Goldman	2
142	<b><i>Aspergillus</i> lipoxygenase: a novel instigator of asthma?</b> GJ Fischer	2
	<i>NOTE: Abstract also selected for Oral Presentation</i>	
143	<b>Comparative genome analysis of <i>Aspergillus tanneri</i>, <i>A. fumigatus</i>, <i>A. parasiticus</i>, and <i>A. flavus</i> predicts mechanisms of differential host virulence</b> L Losada	2