Fungal Genetics Reports

Volume 51 Article 15

Aspergillus Bibliography

John Clutterbuck
University of Glasgow

Recommended Citation
Clutterbuck, J. (2004) "Aspergillus Bibliography," *Fungal Genetics Reports*: Vol. 51, Article 15.
https://doi.org/10.4148/1941-4765.1145

Aspergillus Bibliography

Abstract

This bibliography attempts to cover genetical and biochemical publications on Aspergillus nidulans and also includes selected references to related species and topics. Entries have been checked as far as possible, but please tell me of any errors and omissions. Authors are kindly requested to send a copy of each article to the FGSC for its reprint collection.

ASPERGILLUS BIBLIOGRAPHY

This bibliography attempts to cover genetical and biochemical publications on *Aspergillus nidulans* and also includes selected references to related species and topics. Entries have been checked as far as possible, but please tell me of any errors and omissions. Authors are kindly requested to send a copy of each article to the FGSC for its reprint collection.

John Clutterbuck. Institute of Biomedical and Life Sciences, Anderson College,University of Glasgow, Glasgow G11 6NU, Scotland, UK. Email: j.clutterbuck@bio.gla.ac.uk

Author index

Keyword index

1. **Adams, D.J.** 2004 Fungal cell wall chitinases and glucanases. Microbiology **150:**2029-2035
2. **Aimi, T., Taguchi, H. & Morinaga, T.** 2003 Primary structure of cytochrome c gene from the white root rot fungus *Rosellinia necatrix*. Biosci. Biotechnol. Biochem. **67:**174-178
3. **Amillis, S., Cecchetto, G., Sophianopoulou, V., Koukaki, M., Scazzocchio, C. & Diallinas, G.** 2004 Transcription of purine transporter genes is activated during the isotropic growth phase of *Aspergillus nidulans* conidia. Mol. Microbiol. **52:**205-216
4. **Arst, H.N.Jr. & Peñalva, M.A.** 2003 Recognizing gene regulation by ambient pH. Fungal Genet. Biol. **40:**1-3
5. **Bañuelos, O., Naranjo, L., Casqueiro, J., Gutiérrez, S. & Martín, J.F.** 2003 Co-transformation with autonomous replicating and integrative plasmids in *Penicillium chrysogenum* is highly efficient and leads in some cases to rescue of the intact integrative plasmid. Fungal Genet. Biol. **40;**83-92
6. **Baptista, F., Machado, M.F. & Castro-Prado, M.A.** 2003 Alternative reproduction pathway in *Aspergillus nidulans*. Folia Microbiol. **48:**597-604
7. **Barreto-Bergter, E., Pinto, M.R. & Rodrigues, M.L.** 2004 Structure and biological functions of fungal cerebrosides. An. Acad. Bras. Ciênc. **76:**67-84
8. **Bennion, B., Park, C., Fuller, M., Lindsey, R., Momany, M., Jennemann, R. & Levery, S.B.** 2003 Glycosphingolipids of the model fungus *Aspergillus nidulans*: characterization of GIPCs with oligo-a-mannose-type glycans. J. Lipid Res. **44:**2073-2088
9. **Berthet, N., Faure, O., Bakri, A., Ambroise-Thomas, P., Grillot, R. & Brugère J.-F.** 2003 *In vitro* susceptibility of *Aspergillus* spp. clinical isolates to albendazole. J. Antimicrob. Chemother. **51:**1419-422
10. **Boase, N.A. & Kelly, J.M.** 2004 A role for *creD*, a carbon catabolite repression gene from *Aspergillus nidulans*, in ubiquitination. Mol. Microbiol. **53:**929-940
11. **Bok, J.W. & Keller, N.P.** 2004 LaeA, a regulator of secondary metabolism in *Aspergillus* spp. Euk. Cell **3:**527-535
12. **Boyce, K.J., Hynes, M.J. & Andrianopoulos, A.** 2003 Control of morphogenesis and actin localization by the *Penicillium marneffei* RAC homolog. J. Cell Sci. **116:**1249-1260
13. **Boyd, J., Gradmann, D. & Boyd, C.M.** 2003 Transinhibition and voltage-gating in a fungal nitrate transporter. J. Membrane Biol. **195:**109-120
14. **Bruggeman, J., Debets, A.J. & Hoekstra, R.F.** 2004 Selection arena in *Aspergillus nidulans*. Fungal Genet. Biol. **41:**181-188
15. **Busso, C. & Castro-Prado, M.A.** 2004 Cremophor EL stimulates mitotic recombination in *uvsH//uvsH* diploid strain of *Aspergillus nidulans*. An. Acad. Bras. Ciênc. **76:**49-55
16. **Calvo, A.M., Bok, J., Brooks, W. & Keller, N.P.** 2004 *veA* is required for toxin and sclerotial production in *Aspergillus parasiticus.* Appl. Environ. Microbiol. **70:**4733-4739
17. **Cánovas, D., Mukhopadhyay, R., Rosen, BP. & de Lorenzo, V.** 2003 Arsenate transport and reduction in the hyper-tolerant fungus Aspergillus sp. P37. Environ. Microbiol. **5:**1087-1093
18. **Cecchetto, G., Amillis, S., Diallinas, G., Scazzocchio, C. & Drevet, C.** 2004 The AzgA purine transporter of *Aspergillus nidulans*. Characterization of a protein belonging to a new phylogenetic cluster. J. Biol. Chem. **279:**3132-3141
19. **Chang, P.-K., Yabe, K. & Yu, J.** 2004 The *Aspergillus parasiticus estA*-encoded esterase converts versiconal hemiacetal acetate to versiconal and versiconol acetate to versiconol in aflatoxin biosynthesis. Appl. Environ.

Microbiol. **70:**3593-3599
20. Chang, Y.C., Tsai, H.-F., Karos, M. & Kwon-Chung, K.J. 2004 *THTA*, a thermotolerance gene of *Aspergillus fumigatus*. Fungal Genet. Biol. **41:**888-896
21. Chitarra, G.S., Abee, T., Rombouts, F.M., Posthumus, M.A. & Dijksterhuis, J. 2004 Germination of *Penicillium paneum* conidia is regulated by 1-octen-3-ol, a volatile self-inhibitor. Appl. Environ. Microbiol. **70:**2833-2829
22. Clutterbuck, A.J. 2004 MATE transposable elements in *Aspergillus nidulans*: evidence of repeat-induced point mutation. Fungal Genet. Biol. **41:**308-316
23. Dai, Z., Mao, X., Magnuson, J.K. & Lasure, L.L. 2004 Identification of genes associated with morphology in *Aspergillus niger* by using suppression subtractive hybridization. Appl. Environ. Microbiol. **70:**2474-2485
24. De Souza, C.P.C., Horn, K.P., Masker, K. & Osmani, S.A. 2003 The SONB^{NUP98} nucleoporin interacts with the NIMA kinase in *Aspergillus nidulans*. Genetics **165:**1071-1081
25. do Nascimento, A.M., Goldman, M.H. & Goldman, G.H. 2002 Molecular characterization of ABC transporter-encoding genes in *Aspergillus nidulans*. Genet. Mol. Res. **1:**337-349
26. Dotis, J. & Roilides, E. 2004 Osteomyelitis due to *Aspergillus* spp. in patients with chronic granulomatous disease: comparison of *Aspergillus nidulans* and *Aspergillus fumigatus*. Int. J. Infect. Dis. **8:**103-110
27. Dou, X., Wu, D., An, W., Davies, J., Hashmi, S.B., Ukil, L. & Osmani, S.A. 2003 The PHOA and PHOB cyclin-dependent kinases perform an essential function in *Aspergillus nidulans.* Genetics **165:**1105-1115
28. Dyer, P.S., Paoletti, M. & Archer, D.B. 2003 Genomics reveals sexual secrets of *Aspergillus*. Microbiology **149:**2301-2303
29. Dynesen, J. & Nielsen, J. 2003 Surface hydrophobicity of *Aspergillus nidulans* conidiospores and its role in pellet formation. Biotechnol. Prog. **19:**1049-1052
30. Dynesen, J. & Nielsen, J. 2003 Branching is coordinated with mitosis in growing hyphae of *Aspergillus nidulans*. Fungal Genet. Biol. **40:**15-24
31. Efimov, V.P. 2003 Roles of NUDE and NUDF proteins of *Aspergillus nidulans*: insights from intracellular localization and overexpression effects. Mol. Biol. Cell **14:**871-888
32. Eisendle, M., Oberegger, H., Buttinger, R., Illmer, P. & Haas, H. 2004 Biosynthesis and uptake of siderophores is controlled by a PacC-mediated ambient-pH regulatory system in *Aspergillus nidulans*. Euk. Cell **3:**561-563
33. Eisenhaber, B., Schneider, G., Wildpaner, M. & Eisenhaber, F. 2004 A sensitive predictor for potential GPI lipid modification sites in fungal protein sequences and its application to genome-wide studies for *Aspergillus nidulans, Candida albicans, Neurospora crassa, Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*. J. Mol. Biol. **337:**243-253
34. Fekete, E., Karaffa, L., Sándor, E., Bányai, I., Seiboth, B., Gyémánt, G., Sepsi, A., Szentirmai, A. & Kubicek, C.P. 2004 The alternative D-galactose degrading pathway of *Aspergillus nidulans* proceeds via L-sorbose. Arch. Microbiol. **181:**35-44
35. Fernández-Martinez, J., Brown, C.V., Díez, E., Tilburn, J., Arst, H.N.Jr., Peñalva, M.A. & Espeso, E.A. 2003 Overlap of nuclear localisation signal and specific DNA-binding residues within the zinc finger domain of PacC. J. Mol. Biol. **334:**667-684
36. Fierro, F., Laich, F., García-Rico, R.O. & Martín, J.F. 2004 High efficiency transformation of *Penicillium nalgiovense* with integrative and autonomously replicating plasmids. Int. J. Food Microbiol. **90:**237-248
37. Flipphi, M., Kocialkowska, J. & Felenbok, B. 2003 Relationships between the ethanol utilization (*alc*) pathway and unrelated catabolic pathways in *Aspergillus nidulans*. Eur. J. Biochem. **270:**3555-3564
38. Fortwendel, J.R., Panepinto, J.C., Seitz, A.E., Askew, D.S. & Rhodes, J.C. 2004 *Aspergillus fumigatus rasA* and *rasB* regulate the timing and morphology of asexual development. Fungal Genet. Biol. **41:**129-139
39. Gatherar, I.M., Pollerman, S., Dunn-Coleman, N. & Turner, G. 2004 Identification of a novel gene *hbrB* required for polarised growth in *Aspergillus nidulans*. Fungal Genet. Biol. **41:**463-471
40. Goldman, G.H. & Kafer, E. 2004 *Aspergillus nidulans* as a model system to characterize the DNA damage response in eukaryotes. Fungal Genet. Biol. **41:**428-442
41. Gómez, D., García, I., Scazzocchio, C. & Cubero, B. 2003 Multiple GATA sites: protein binding and physiological relevance for the regulation of the proline transporter gene of *Aspergillus nidulans*. Molecular Microbiology. **50:**277-289
42. Grell, M.N., Mouritzen, P. & Giese, H. 2003 A *Blumeria graminis* gene family encoding proteins with a C-terminal variable region with homologues in pathogenic fungi. Gene **311:**181-192

43. Guelfi, A., Azevedo, R.A., Lea, P.J. & Molina, S.M. 2003 Growth inhibition of the filamentous fungus *Aspergillus nidulans* by cadmium: an antioxidant enzyme approach. J. Gen. Appl. Microbiol. **49:**63-73
44. Guest, G.M., Lin, X. & Momany, M. 2004 *Aspergillus nidulans* RhoA is involved in polar growth, branching and cell wall synthesis. Fungal Genet. Biol. **41:**13-22
45. Haas, H. 2003 Molecular genetics of fungal siderophore biosynthesis and uptake: the role of siderophores in iron uptake and storage. Appl. Microbiol. Biotechnol. **62:**316-330
46. Hallsworth, J.E., Prior, B.A., Nomura, Y., Iwahara, M. & Timmis, K.N. 2003 Compatible solutes protect against chaotrope (ethanol)-induced, nonosmotic water stress. Appl. Environ. Microbiol. **69:**7032-7034
47. Han, K.-H., Seo, J.A. & Yu, J.H. 2004 A putative G-protein-coupled receptor negatively controls sexual development in *Aspergillus nidulans.* Mol. Microbiol. **51:**1333-1345
48. Han, K.-H., Seo, J.A. & Yu, J.H. 2004 Regulators of G-protein signalling in *Aspergillus nidulans*: RgsA downregulates stress response and stimulates asexual sporulation through attenuation of GanB (Ga) signalling. Mol. Microbiol. **53:**529-540
49. Harris, S.D. & Momany, M. 2004 Polarity in filamentous fungi: moving beyond the yeast paradigm. Fungal Genet. Biol. **41:**391-400
50. Harvey, A.C. & Downs, J.A. 2004 What functions do linker histones provide? Mol. Microbiol. **53:**771-775
51. Hasper, A.A., Trindade, L.M., van der Veen, D., van Ooyen, A.J.J. & de Graaff, L.H. 2004 Functional analysis of the transcriptional activator XlnR from *Aspergillus niger*. Microbiology **150:**1367-1375
52. Hernandez-Lopez, M.J., Blasco, A., Prieto, J.A. & Randez-Gil, F. 2003 Ura$^-$ host strains for genetic manipulation and heterologous expression of *Torulaspora delbrueckii*. Int. J. Food Microbiol. **86:**79-86
53. Hoffmann, B., Zuo, W., Liu, A. & Morris, N.R. 2004 Retraction of: Hoffmann B, Zuo W, Liu A, Morris NR. 2001 The LIS1-related protein NUDF of Aspergillus nidulans and its interaction partner NUDE bind directly to specific subunits of dynein and dynactin and to a- and g-tubulin. J. Biol. Chem. 276:38877-38884 J. Biol. Chem. **279**:820.
54. Holzbaur, E.L. 2004 Tangled NUDELs? [Comment on entry 92 below**]** Nature Cell Biol. **6:**569-570
55. Jadoun, J., Shadkchan, Y. & Osherov, N. 2004 disruption of the *Aspergillus fumigatus argB* gene using a novel in vitro transposon-based mutagenesis approach. Curr. Genet. **45:**235-241
56. Jaques. A.K., Fukamizo, T., Hall, D., Barton, R.C., Escott, G.M., Parkinson, T., Hitchcock, C.A. & Adams, D.J. 2003 Disruption of the gene encoding the ChiB1 chitinase of *Aspergillus fumigatus* and characterization of a recombinant gene product. Microbiology **149:**2931-2939
57. Johnson, H., Whiteford, J.R., Eckert, S.E. & Spanu, P.D. 2003 Production and secretion of *Aspergillus nidulans* catalase B in filamentous fungi driven by the promoter and signal peptide of the *Cladosporium fulvum* hydrophobin gene *hcf-1*. Curr. Genet. **44:**155-163
58. Joseph, J.D., Daigle, S.N. & Means, A.R. 2004 PINA is essential for growth and positively influences NIMA function in *Aspergillus nidulans*. J. Biol. Chem. **279:**32373-32384
59. Kacprzak, M.M., Lewandowska, I., Matthews, R.G. & Paszewski, A. 2003 Transcriptional regulation of methionine synthase by homocysteine and choline in *Aspergillus nidulans*. Biochem. J. **376:**517-524
60. Kahl, C.R. & Means, A.R. 2003 Regulation of cell cycle progression by calcium/calmodulin-dependent pathways. Endocrine Rev. **24:**719-736
61. Kato, N., Brooks, W. & Calvo, A.M. 2003 The expression of sterigmatocystin and penicillin genes in *Aspergillus nidulans* is controlled by *veA*, a gene required for sexual development. Eukaryot. Cell **2:**1178-1186
62. Kiso, T., Fujita, K.-I., Ping, X., Tanaka, T. & Taniguchi, M. 2004 Screening for microtubule-disrupting antifungal agents by using a mitotic-arrest mutant of *Aspergillus nidulans* and novel action of phenylalanine derivatives accompanying tubulin loss. Antimicrob. Agents Chemother. **48:**1739-1748
63. Koch, K.V., Suelmann, R. & Fischer, R. 2003 Deletion of *mdmB* impairs mitochondrial distribution and morphology in *Aspergillus nidulans*. Cell Motil. Cytoskel. **55:**114-124
64. Koukaki, M., Giannoutsou, E., Karagouni, A. & Diallinas, G. 2003 A novel improved method for *Aspergillus nidulans* transformation. J. Microbiol. Meth. **55:**687-695
65. Krappmann, S., Bignell, E.M., Reichard, U., Rogers, T., Haynes, K. & Braus, G.H. 2004 The *Aspergillus fumigatus* transcriptional activator CpcA contributes significantly to the virulence of this fungal pathogen. Mol. Microbiol. **52:**785-799
66. Kusumoto, K.-I., Suzuki, S. & Kashiwagi, Y. 2003 Telomeric repeat sequence of *Aspergillus oryzae* consists of dodeca-nucleotides. Appl. Microbiol. Biotechnol. **61:**247-251

67. Lamb, H.K., Leslie, K., Dodds, A.L., Nutley, M., Cooper, A., Johnson, C., Thompson, P., Stammers, D.K. & Hawkins, A.R. 2003 The negative transcriptional regulator NmrA discriminates between oxidized and reduced dinucleotides. J. Biol. Chem. **278:**32107-32114
68. Lara-Ortíz, T., Riveros-Rosas, H. & Aguirre, J. 2003 Reactive oxygen species generated by microbial NADPH oxidase NoxA regulate sexual development in *Aspergillus nidulans*. Mol. Microbiol. **50:**1241-1255
69. Larrondo, L.F., Salas, L., Melo, F., Vicuña, R. & Cullen, D. 2003 A novel extracellular multicopper oxidase from *Phanerochaete chrysosporium* with ferroxidase activity. Appl. Environ. Microbiol. **69:**6257-6263
70. Lee, J.I., Choi, J.H., Park, B.C., Park, Y.H., Lee, M.Y., Park, H.M. & Maeng, P.J. 2004 Differential expression of the chitin synthase genes of *Aspergillus nidulans, chsA, chsB,* and *chsC*, in response to developmental status and environmental factors. Fungal Genet. Biol. **41:**635-646
71. Liebmann, B., Mühleisen, T.W., Müller, M., Hecht, M., Weidner, G., Braun, A., Brock, M. & Brakhage, A.A. 2004 Deletion of the *Aspergillus fumigatus* lysine biosynthesis gene *lysF* encoding homoaconitase leads to attenuated virulence in a low-dose mouse infection model of invasive aspergillosis. Arch. Microbiol. **181:**378-383
72. Lin, X., Momany, C. & Momany, M. 2003 SwoHp, a nucleoside diphosphate kinase, is essential in *Aspergillus nidulans*. Eukaryot. Cell **2:**1169-1177
73. Lin, X. & Momany, M. 2003 The *Aspergillus nidulans swoC1* mutant shows defects in growth and development. Genetics **165:**543-554
74. Mabey, J.E., Anderson, M.J., Giles, P.F., Miller, C.J., Attwood, T.K., Paton, N.W., Bornberg-Bauer, E., Robson, G.D., Oliver, S.G. & Denning. D.W. 2004 CADRE: the Central Aspergillus Data REpository. Nucleic Acids Res. **32 (**Database issue) D401-405
75. MacCabe, A.P., Miró, P., Ventura, L. & Ramón, D. 2003 Glucose uptake in germinating *Aspergillus nidulans* conidia: involvement of the *creA* and *sorA* genes. Microbiology **149:**2129-2136
76. Maurer-Stroh, S., Washietl, S. & Frank, E. 2003 Protein prenyltransferases: anchor size, pseudogenes and parasites. Biol. Chem. **384:**977-989
77. Medina, M.L., Kiernan, U.A. & Francisco, W.A. 2004 Proteomic analysis of rutin-induced secreted proteins from *Aspergillus flavus*. Fungal Genet. Biol. 41;327-335
78. Melin, P., Schnürer, J. & Wagner, E.G. 2003 Characterization of *phiA*, a gene essential for phialide development in *Aspergillus nidulans*. Fungal Genet. Biol. **40:**234-241
79. Melin, P., Schnürer, J. & Wagner, E.G. 2004 Disruption of the gene encoding the V-ATPase subunit A results in inhibition of normal growth and abolished sporulation in *Aspergillus nidulans*. Microbiology **150:**743-748
80. Meyer, V., Mueller, D., Strowig, T. & Stahl, U. 2003 Comparison of different transformation methods for *Aspergillus giganteus.* Curr. Genet. **43:**371-377
81. Michielse, C.B., Ram, A.F.J., Hooykaas, P.J.J. & van den Hondel, C.A.M.J.J. 2004 Role of bacterial virulence proteins in *Agrobacterium*-mediated transformation of *Aspergillus awamori*. Fungal Genet. Biol. **41:**571-578
82. Michielse, C.B., Ram, A.F.J. & van den Hondel, C.A.M.J.J. 2004 The *Aspergillus nidulans amdS* gene as a marker for the identification of multicopy T-DNA integration events in *Agrobacterium*-mediated transformation of *Aspergillus awamori*. Curr. Genet. **45:**399-403
83. Michielse, C.B., Salim, K., Ragas, P., Ram, A.F., Kudla, B., Jarry, B., Punt, P.J. & van den Hondel, C.A. 2004 Development of a system for integrative and stable transformation of the zygomycete *Rhizopus oryzae* by *Agrobacterium*-mediated DNA transfer. Mol. Gen. Genomics **271:**499-510 + erratum Mol. Genet. Genomics **271:**638.
84. Mizutani. O., Nojima, A., Yamamoto, M., Furukawa, K., Fujioka, T., Yamagata, Y., Abe, K. & Nakajima, T. 2004 Disordered cell integrity signaling caused by disruption of the *kexB* gene in *Aspergillus oryzae*. Eukaryot. Cell **3:**1036-1048
85. Morris, N.R. & Osbourn A.E. 2004 2003 Asilomar meeting report. Fungal Genet. Biol. **41:**109-114
86. Mousavi, S.A.A. & Robson, G.D. 2003 Entry into stationary phase is associated with a rapid loss of viability and an apoptotic-like phenotype in the opportunistic pathogen *Aspergillus fumigatus*. Fungal Genet. Biol. **39:**221-229
87. Mousavi, S.A.A. & Robson, G.D. 2004 Oxidative and amphotericin B-mediated cell death in the opportunistic pathogen *Aspergillus fumigatus* is associated with an apoptotic-like phenotype. Microbiology **150:**1937-1945
88. Mukherjee, M., Hadar, R., Mukherjee, P.K. & Horwitz, B.A. 2003 Homologous expression of a mutated beta-tubulin gene does not confer benomyl resistance on *Trichoderma virens*. J. Appl. Microbiol. **95:**861-867
89. Mulder, H.J., Saloheimo, M., Penttilä, M. & Madrid, S.M. 2004 The transcription factor HACA mediates the unfolded protein response in *Aspergillus niger*, and up-regulates its own transcription. Mol. Gen. Genomics **271:**130-140

90. Nahalkova, J. & Fatehi, J. 2003 Red fluorescent protein (DsRed2) as a novel reporter in *Fusarium oxysporum* f. sp. *lycopersici*. FEMS Microbiol. Lett. **225:**305-309
91. Nelson, G., Kozlova-Zwinderman, O., Collis, A.J., Knight, M.R., Fincham, J.R.S., Stanger, C.P., Renwick. A., Hessing, J.G.M., Punt, P.J., van den Hondel, C.A.M.J.J. & Read, N.D. 2004 Calcium measurement in living filamentous fungi expressing codon-optimized aequorin. Mol. Microbiol. **52:**1437-1450
92. Nguyen, M.D., Shu, T., Sanada, K., Larivière, R.C., Tseng, H.-C., Park, S.K., Julien, J.-P. & Tsai, L.-H. 2004 A NUDEL-dependent mechanism of neurofilament assembly regulates the integrity of CNS neurons. Nature Cell Biol. **6:**595-608 [Comment on entry 54 above]
93. Nozawa, S.R., Ferreira-Nozawa, M.S., Martinez-Rossi, N.M. & Rossi, A. 2003 The pH-induced glycosylation of secreted phosphatases is mediated in *Aspergillus nidulans* by the regulatory gene pacC-dependent pathway. Fungal Genet. Biol. **39:**286-295 + addendum: **40:**287-288
94. O'Callaghan, J., Caddick, M.X. & Dobson, A.D.W. 2003 A polyketide synthase gene required for ochratoxin A biosynthesis in *Aspergillus ochraceus*. Microbiology **149:**3485-3491
95. O'Connell, M.J., Krien, M.J. & Hunter, T. 2003 Never say never. The NIMA-related protein kinases in mitotic control. Trends Cell Biol. **13:**221-228
96. Oakley, B.R. 2004 Tubulins in *Aspergillus nidulans*. Fungal Genet. Biol. **41:**420-427
97. Oberegger, H., Eisendle, M., Schrettl, M., Graessle, S. & Haas, H. 2003 4'-phosphopantetheinyl transferase-encoding *npgA* is essential for siderophore biosynthesis in *Aspergillus nidulans.* Curr. Genet. **44:**211-215
98. Obrian, G.R., Fakhoury, A.M. & Payne, G.A. 2003 identification of genes differentially expressed during aflatoxin biosynthesis in *Aspergillus flavus* and *Aspergillus parasiticus*. Fungal Genet. Biol. **39:**118-127
99. Oka, M., Maruyama, J., Arioka M., Nakajima, H. & Kitamoto, K. 2004 Molecular cloning and functional characterization of *avaB*, a gene encoding Vam6p/Vps39p-like protein in *Aspergillus nidulans*. FEMS Microbiol. Lett. **232:**113-121
100. Osmani, S.A. & Mirabito, P.M. 2004 The early impact of genetics on our understanding of cell cycle regulation in *Aspergillus nidulans*. Fungal Genet. Biol. **41:**401-410
101. Ota, T., Hamaguchi, T., Sameshima, Y., Goto, M. & Furukawa, K. 2004 Molecular characterization of protein *O*-mannosyltransferase and its involvement in cell-wall synthesis in *Aspergillus nidulans*. Microbiology **150:**1973-1982
102. Ovechkina, Y., Maddox, P., Oakley, C.E., Xiang, X., Osmani, S.A., Salmon, E.D. & Oakley, B.R. 2003 Spindle formation in *Aspergillus* is coupled to tubulin movement into the nucleus. Mol. Biol. Cell **14:**2192-2200
103. Pain, A., Woodward, J., Quail, M.A., Anderson, M.J., Clark, R., Collins, M., Fosker, N., Fraser, A., Harris, D., Larke, N., Murphy, L., Humphray, S., O'Neil, S., Pertea, M., Price, C., Rabbinowitsch, E., Rajandream, M.A., Salzberg, S., Saunders, D., Seeger, K., Sharp, S., Warren, T., Denning, D.W., Barrell, B. & Hall, N. 2004 Insight into the genome of *Aspergillus fumigatus*: analysis of a 922 kb region encompassing the nitrate assimilation gene cluster. Fungal Genet. Biol. **41:**443-453
104. Palmer, D.R.J., Balogh, H., Ma, G., Zhou, X., Marko, M. & Kaminsky, S.G.W..2004 Synthesis and antifungal properties of compounds which target the a-aminoadipate pathway. Pharmazie **59:**93-98 + Correction: **59:**336.
105. Payan, F., Leone, P., Porciero, S., Furniss, C., Tahir, T., Williamson, G., Durand, A., Manzanares, P., Gilbert, H.J., Juge, N. & Roussel, A. 2004 The dual nature of wheat xylanase protein inhibitor XIP-1. J. Biol. Chem. **279:**36029-36037
106. Pellier, A.-L., Laugé, R., Veneault-Fourrey, C. & Langin, T. 2003 CLNR1, the AREA/NIT2-like global nitrogen regulator of the plant fungal pathogen *Colletotrichum lindemuthianum* is required for the infection cycle. Mol. Microbiol. **48:**639-655
107. Pérez, P., Martínez, Ó., Romero, B., Olivas, I., Pedregosa, A.M., Palmieri, F., Laborda, F. & De Lucas, J.R. 2003 Functional analysis of mutations in the human carnitine/acylcarnitine translocase in *Aspergillus nidulans*. Fungal Genet. Biol. **39:**211-220
108. Pitt, C.W., Moreau, E., Lunness, P.A. & Doonan, J.H. 2004 The *pot1*$^{+}$ homologue in *Aspergillus nidulans* is required for ordering mitotic events. J. Cell Sci. **117:**199-209
109. Plüddemann, A. & van Zyl, W.H. 2003 Evaluation of *Aspergillus niger* as host for virus-like particle production, using hepatitis B surface antigen as a model. Curr. Genet. **43:**439-446
110. Plumridge, A., Hesse, S.J.A., Watson, A.J., Lowe, K.C., Stratford, M. & Archer, D.B. 2004 The weak acid preservative sorbic acid inhibits conidial germination and mycelial growth of *Aspergillus niger* through intracellular

acidification. Appl. Environ. Microbiol. **70:**3506-3511
111. Prathumpai, W., Gabelgaard, J.B., Wanchanthuek. P., van de Vondervoort, P.J., de Groot, M.J., McIntyre, M. & Nielsen, J. 2003 Metabolic control analysis of xylose catabolism in *Aspergillus*. Biotechnol. Prog. **19:**1136-1141
112. Prathumpai, W., McIntyre, M. & Nielsen, J. 2004 The effect of CreA in glucose and xylose catabolism in *Aspergillus nidulans*. Appl. Microbiol. Biotechnol. **63:**748-753
113. Pries, R., Bömeke, K., Draht, O., Künzler, M. & Braus, G.H. 2004 Nuclear import of yeast Gcn4p requires karyopherins Srp1p and Kap95p. Mol. Genet. Genomics **271:**257-266
114. Ramírez-Coronel, M.A., Viniegra-González, G., Darvill, A. & Augur, C. 2003 A novel tannase from *Aspergillus niger* with b-glucosidase activity. Microbiology **149:**2941-2946
115. Ramón, A.M. & Fonzi, W.A. 2003 Diverged binding specificity of Rim101p, the *Candida albicans* ortholog of PacC. Euk. Cell **2:**718-728
116. Ray, A., Macwana, S., Ayoubi, P., Hall, L.T., Prade, R. & Mort, A.J. 2004 Negative subtraction hybridization: an efficient method to isolate large numbers of condition-specific cDNAs. BMC Genomics. **5:**22.
117. Ribard, C., Rochet, M., Labedan, B., Daignan-Fornier, B., Alzari, P., Scazzocchio, C. & Oestreicher, N. 2003 Sub-families of a/b barrel enzymes: a new adenine deaminase family. J. Mol. Biol. **334:**1117-1131
118. Rischitor, P.E., Konzack, S. & Fischer, R. 2004 The Kip3-like kinesin KipB moves along microtubules and determines spindle position during synchronized mitosis in *Aspergillus nidulans* hyphae. Euk. Cell **3:**632-645
119. Rodríguez, J.M., Ruíz-Sala, P., Ugarte, M. & Peñalva, M.A. 2004 Fungal metabolic model for 3-methylcrotonyl-CoA carboxylase deficiency. J. Biol. Chem. **279:**4578-4587
120. Rodríguez, J.M., Ruíz-Sala, P., Ugarte, M. & Peñalva, M.Á. 2004 Fungal metabolic model for type I 3-methylglutaconic aciduria. J. Biol. Chem, **279:**32385-32392
121. Romero, B., Turner, G., Olivas, I., Laborda, F. & De Lucas, J.R. 2003 The *Aspergillus nidulans alcA* promoter drives tightly regulated conditional gene expression in *Aspergillus fumigatus* permitting validation of essential genes in this human pathogen. Fungal Genet. Biol. **40:**103-114
122. Rösen-Wolff, A., Koch, A., Friedrich, W., Hahn, G., Gahr, M. & Roesler, J. 2004 Successful elimination of an invasive *Aspergillus nidulans* lung infection by voriconazole after failure of a combination of caspofungin and liposomal amphotericin B in a boy with chronic granulomatous disease. Pediatr. Infect. Dis. J. **23:**584-586
123. Roze, L.V., Calvo, A.M., Gunterus, A., Beaudry, R., Kall, M. & Linz, J.E. 2004 Ethylene modulates development and toxin biosynthesis in *Aspergillus* possibly via an ethylene sensor-mediated signaling pathway. J. Food Protect. **67:**438-447
124. Roze, L.V., Miller, M.J., Ratrick, M., Mahanti, N. & Linz, J.E. 2004 A novel cAMP-response element, CRE1, modulates expression of *nor-1* in *Aspergillus parasiticus*. J. Biol. Chem. **279:**27428-27439
125. Ruijter, G.J.G., Bax, M., Patel, H., Flitter, S.J., van de Vondervoort, P.J., de Vries, R.P., vanKuyk, P.A. & Visser, J. 2003 Mannitol is required for stress tolerance in *Aspergillus niger* conidiospores. Euk. Cell. **2:**690-698
126. Ruijter, G.J.G., Visser, J. & Rinzema, A. 2004 Polyol accumulation by *Aspergillus oryzae* at low water activity in solid-state fermentation. Microbiology **150:**1095-1101
127. Rutherford, J.C. & Bird, J. 2004 Metal-responsive transcription factors that regulate iron, zinc, and copper homeostasis in eukaryotic cells. Eukaryot. Cell **3:**1-13
128. Sadanandom, A., Findlay, K., Doonan, J.H., Schulze-Lefert, P. & Shirasu, K. 2004 CHPA, a cysteine- and histidine-rich-domain-containing protein, contributes to maintenance of the diploid state in *Aspergillus nidulans*. Eukaryot. Cell **3:**984-991
129. Saxena, S., Madan, T., Muralidhar, K. & Sarma, P.U. 2003 cDNA cloning, expression and characterization of an allergenic L3 ribosomal protein of *Aspergillus fumigatus*. Clin. Exp. Immunol. **134:**86-91
130. Schmidt D. & Rath P.-M. 2003 Faster genetic identification of medically important aspergilli by using gellan gum as gelling agent in mycological media. J. Med. Microbiol. **52:**653-655
131. Seif, E.R., Forget, L., Martin, N.C. & Lang, B.F. 2003 Mitochondrial RNase P RNAs in ascomycete fungi: lineage-specific variations in RNA secondary structure. RNA **9:**1073-1083
132. Seo, J.-A., Guan, Y. & Yu, J.-H. 2003 Suppressor mutations bypass the requirement of *fluG* for asexual reproduction and sterigmatocystin production in *Aspergillus nidulans.* Genetics **165:**1083-1093
133. Shi, X., Sha, Y. & Kaminskyj, S. 2004 *Aspergillus nidulans hypA* regulates morphogenesis through the secretion pathway. Fungal Genet. Biol. **41:**75-88
134. Shimizu, K., Hicks, J.K., Huang, T.-P. & Keller, N.P. 2003 Pka, Ras and RGS protein interactions regulate

activity of AflR, a Zn(II)2Cys6 transcription factor in *Aspergillus nidulans*. Genetics **165:**1095-1104
135. Siddiqi, O. 2002 Guido Pontecorvo, 29 November 1907 - 25 September 1999. Biograph. Memoirs Fellows Roy. Soc. **48:**377-390
136. Sims, A.H., Robson, G.D., Hoyle, D.C., Oliver, S.G., Turner, G., Prade, R.A., Russell, H.H., Dunn-Coleman, N.S. & Gent, M.E. 2004 Use of expressed sequence tag analysis and cDNA microarrays of the filamentous fungus *Aspergillus nidulans*. Fungal Genet. Biol. **41:**199-212
137. Sorensen, J.L. & Vederas, J.C. 2003 Monacolin N, a compound resulting from derailment of type I iterative polyketide synthase function *en route* to lovastatin. Chem. Commun. **2003:**1492-1493
138. Stock, M.F., Chu, J. & Hackney, D.D. 2003 The kinesin family member BimC contains a second microtubule binding region attached to the N terminus of the motor domain. J. Biol. Chem. **278:**52315-52322
139. Su, W, Li, S., Oakley, B.R. & Xiang, X. 2004 Dual-color imaging of nuclear division and mitotic spindle elongation in live cells of *Aspergillus nidulans*. Euk. Cell **3:**553-556
140. Takasaki, K., Shoun, H., Yamaguchi, M., Takeo, K., Nakamura, A., Hoshino, T. & Takaya, N. 2004 Fungal ammonia fermentation, a novel metabolic mechanism that couples the dissimilatory and assimilatory pathways of both nitrate and ethanol. Role of acetyl CoA synthetase in anaerobic ATP synthesis. J. Biol. Chem. **279:**12414-12420
141. Tanton, L.L., Nargang, C.E., Kessler, K.E., Li, Q. & Nargang, F.E. 2003 Alternative oxidase expression in *Neurospora crassa*. Fungal Genet. Biol. **39:**176-190
142. Tanzer, M.M., Arst, H.N., Skalchunes, A.R., Coffin, M., Darveaux, B.A., Heiniger, R.W. & Shuster, J.R. 2003 Global nutritional profiling for mutant and chemical mode-of-action analysis in filamentous fungi. Funct. Integr. Genomics. **3:**160-170
143. Tavoularis. S.N., Tazebay, U.H., Diallinas, G., Sideridou, M., Rosa, A., Scazzocchio, C. & Sophianopoulou, V. 2003 Mutational analysis of the major proline transporter (PrnB) of *Aspergillus nidulans*. Mol. Membrane Biol. 20:285-297
144. Thrane, C., Kaufmann, U., Stummann, B.M. & Olsson, S. 2004 Activation of caspase-like activity and poly(ADP-ribose) polymerase degradation during sporulation in *Aspergillus nidulans.* Fungal Genet. Biol. 41:361-368
145. Toews, M.W., Warmbold, J., Konzack, S., Rischitor, P., Veith, D., Vienken, K., Vinuesa, C., Wei, H. & Fischer, R. 2004 Establishment of mRFP1 as a fluorescent marker in *Aspergillus nidulans* and construction of expression vectors for high-throughput protein tagging using recombination in vitro (GATEWAY). Curr. Genet. **45:**383-389
146. Tsitsigiannis, D.I., Zarnowski, R. & Keller, N.P. 2004 The lipid body protein, PpoA, coordinates sexual and asexual sporulation in *Aspergillus nidulans*. J. Biol. Chem. **279:**11344-11353
147. Tüncher, A., Reinke, H., Martic, G., Caruso, M.L. & Brakhage, A.A. 2004 A basic-region helix-loop-helix protein-encoding gene (*devR*) involved in the development of *Aspergillus nidulans*. Mol. Microbiol. **52:**227-241
148. Unkles, S.E., Wang, R., Wang, Y., Glass, A.D.M., Crawford, N.M. & Kinghorn, J.R. 2004 Nitrate reductase activity is required for nitrate uptake into fungal but not plant cells. J. Biol. Chem. **279:**28182-28186
149. Valdez-Taubas, J., Harispe, L., Scazzocchio, C., Gorfinkiel, L. & Rosa, A.L. 2004 Ammonium-induced internalisation of UapC, the general purine permease from *Aspergillus nidulans*. Fungal Genet. Biol. **41:**42-51
150. Valkonen, M., Ward, M., Wang, H., Penttilä, M. & Saloheimo, M. 2003 Improvement of foreign-protein production in *Aspergillus niger* var. *awamori* by constitutive induction of the unfolded-protein response. Appl. Environ. Microbiol. **69:**6979-6986
151. vanKuyk, P.A., Diderich, J.A., MacCabe, A.P., Hererro, O., Ruijter, G.J. & Visser, J. 2004 *Aspergillus niger mstA* encodes a high-affinity sugar/H^+ symporter which is regulated in response to extracellular pH. Biochem. J. **379:**375-383
152. Varanasi, N.L., Baskaran, I., Alangaden, G.J., Chandrasekar, P.H. & Manavathu, E.K. 2004 Novel effect of voriconazole on conidiation of *Aspergillus* species. Int. J. Antimicrob. Agents **23:**72-79
153. Walther, A. & Wendland, J. 2003 Septation and cytokinesis in fungi. Fungal Genet. Biol. **40:**187-196
154. Wei, H., Vienken, K., Weber, R., Bunting, S., Requena, N. & Fischer, R. 2004 A putative high affinity hexose transporter, *hxtA*, of *Aspergillus nidulans* is induced in vegetative hyphae upon starvation and in ascogenous hyphae during cleistothecium formation. Fungal Genet. Biol. **41:**148-156
155. Wilson, R.A., Chang, P.K., Dobrzyn, A., Ntambi, J.M., Zarnowski, R. & Keller, N.P. 2004 Two D9-stearic acid desaturases are required for *Aspergillus nidulans* growth and development. Fungal Genet. Biol. **41:**501-509

156. Xiang, X. & Fischer, R. 2004 Nuclear migration and positioning in filamentous fungi. Fungal Genet, Biol. **41:**411-419
157. Xu, J. & Gong, Z.Z. 2003 Intron requirement for AFP gene expression in *Trichoderma viride*. Microbiology **149:**3093-3097
158. Xue, T., Nguyen, K., Romans, A. & May, G.S. 2004 A mitogen-activated protein kinase that senses nitrogen regulates conidial germination and growth in *Aspergillus fumigatus*. Euk. Cell **3:**557-560
159. Yu, J., Chang, P.-K., Ehrlich, K.C., Cary, J.W., Bhatnagar, D., Cleveland, T.E., Payne, G.A., Linz, J.E., Woloshuk, C.P. & Bennett, J.W. 2004 Clustered Pathway Genes in Aflatoxin Biosynthesis Appl. Environ. Microbiol. **70:**1253-1262
160. Zhang, Y.Q. & Keller, N.P. 2004 Blockage of methylcitrate cycle inhibits polyketide production in *Aspergillus nidulans*. Mol. Microbiol. **52:**541-550

Authors

Abe, K. 84
Abee, T. 21
Adams, D.J. 1 56
Aguirre, J. 68
Aimi, T. 2
Alangaden, G.J. 152
Alzari, P. 117
Ambroise-Thomas, P. 9
Amillis, S. 3 18
An, W. 27
Anderson, M.J. 74 103
Andrianopoulos, A. 12
Archer, D.B. 28 110
Arioka M. 99
Arst, H.N.Jr. 4 35 142
Askew, D.S. 38
Attwood, T.K. 74
Augur, C. 114
Ayoubi, P. 116
Azevedo, R.A. 43
Bakri, A. 9
Balogh, H. 104
Bañuelos, O. 5
Bányai, I. 34
Baptista, F. 6
Barrell, B. 103
Barreto-Bergter, E. 7
Barton, R.C. 56
Baskaran, I. 152
Bax, M. 125
Beaudry, R. 123
Bennett, J.W. 159
Bennion, B. 8
Berthet, N. 9
Bhatnagar, D. 159
Bignell, E.M. 65
Bird, J. 127
Blasco, A. 52
Boase, N.A. 10
Bok, J.W. 11 16
Bömeke, K. 113
Bornberg-Bauer, E. 74
Boyce, K.J. 12
Boyd, C.M. 13
Boyd, J. 13
Brakhage, A.A. 71 147
Braun, A. 71
Braus, G.H. 65 113
Brock, M. 71
Brooks, W. 16 61
Brown, C.V. 35
Brugère J.-F. 9
Bruggeman, J. 14
Bunting, S. 154
Busso, C. 15
Buttinger, R. 32
Caddick, M.X. 94
Calvo, A.M. 16 61 123
Cánovas, D. 17

Caruso, M.L. 147
Cary, J.W. 159
Casqueiro, J. 5
Castro-Prado, M.A. 6 15
Cecchetto, G. 3 18
Chandrasekar, P.H. 152
Chang, P.K. 19 155 159
Chang, Y.C. 20
Chitarra, G.S. 21
Choi, J.H. 70
Chu, J. 138
Clark, R. 103
Cleveland, T.E. 159
Clutterbuck, A.J. 22
Coffin, M. 142
Collins, M. 103
Collis, A.J. 91
Cooper, A. 67
Crawford, N.M. 148
Cubero, B. 41
Cullen, D. 69
Dai, Z. 23
Daigle, S.N. 58
Daignan-Fornier, B. 117
Darveaux, B.A. 142
Darvill, A. 114
Davies, J. 27
de Graaff, L.H. 51
de Groot, M.J. 111
de Lorenzo, V. 17
De Lucas, J.R. 107 121
De Souza, C.P.C. 24
de Vries, R.P. 125
Debets, A.J. 14
Denning, D.W. 74 103
Diallinas, G. 3 18 64 143
Diderich, J.A. 151
Díez, E. 35
Dijksterhuis, J. 21
do Nascimento, A.M. 25
Dobrzyn, A. 155
Dobson, A.D.W. 94
Dodds, A.L. 67
Doonan, J.H. 108 128
Dotis, J. 26
Dou, X. 27
Downs, J.A. 50
Draht, O. 113
Drevet, C. 18
Dunn-Coleman, N.S. 39 136
Durand, A. 105
Dyer, P.S. 28
Dynesen, J. 30 29
Eckert, S.E. 57
Efimov, V.P. 31
Ehrlich, K.C. 159
Eisendle, M. 32 97
Eisenhaber, B. 33
Eisenhaber, F. 33
Escott, G.M. 56
Espeso, E.A. 35
Fakhoury, A.M. 98
Fatehi, J. 90
Faure, O. 9
Fekete, E. 34
Felenbok, B. 37
Fernández-Martinez, J. 35
Ferreira-Nozawa, M.S. 93
Fierro, F. 36
Fincham, J.R.S. 91
Findlay, K. 128
Fischer, R. 63 118 145 154 156
Flipphi, M. 37
Flitter, S.J. 125
Fonzi, W.A. 115
Forget, L. 131
Fortwendel, J.R. 38
Fosker, N. 103
Francisco, W.A. 77
Frank, E. 76
Fraser, A. 103

Friedrich, W. 122
Fujioka, T. 84
Fujita, K.-I. 62
Fukamizo, T. 56
Fuller, M. 8
Furniss, C. 105
Furukawa, K. 84 101
Gabelgaard, J.B. 111
Gahr, M. 122
García, I. 41
García-Rico, R.O. 36
Gatherar, I.M. 39
Gent, M.E. 136
Giannoutsou, E. 64
Giese, H. 42
Gilbert, H.J. 105
Giles, P.F. 74
Glass, A.D.M. 148
Goldman, G.H. 25 40
Goldman, M.H. 25
Gómez, D. 41
Gong, Z.Z. 157
Gorfinkiel, L. 149
Goto, M. 101
Gradmann, D. 13
Graessle, S. 97
Grell, M.N. 42
Grillot, R. 9
Guan, Y. 132
Guelfi, A. 43
Guest, G.M. 44
Gunterus, A. 123
Gutiérrez, S. 5
Gyémánt, G. 34
Haas, H. 32 45 97
Hackney, D.D. 138
Hadar, R. 88
Hahn, G. 122
Hall, D. 56
Hall, L.T. 116
Hall, N. 103
Hallsworth, J.E. 46
Hamaguchi, T. 101
Han, K.-H. 47 48
Harispe, L. 149
Harris, D. 103
Harris, S.D. 49
Harvey, A.C. 50
Hashmi, S.B. 27
Hasper, A.A. 51
Hawkins, A.R. 67
Haynes, K. 65
Hecht, M. 71
Heiniger, R.W. 142
Hererro, O. 151
Hernandez-Lopez, M.J. 52
Hesse, S.J.A. 110
Hessing, J.G.M. 91
Hicks, J.K. 134
Hitchcock, C.A. 56
Hoekstra, R.F. 14
Hoffmann, B. 53
Holzbaur, E.L. 54
Hooykaas, P.J.J. 81
Horn, K.P. 24
Horwitz, B.A. 88
Hoshino, T. 140
Hoyle, D.C. 136
Huang, T.-P. 134
Humphray, S. 103
Hunter, T. 95
Hynes, M.J. 12
Illmer, P. 32
Iwahara, M. 46
Jadoun, J. 55
Jaques. A.K. 56
Jarry, B. 83
Jennemann, R. 8
Johnson, C. 67
Johnson, H. 57
Joseph, J.D. 58

Juge, N. 105
Julien, J.-P. 92
Kacprzak, M.M. 59
Kafer, E. 40
Kahl, C.R. 60
Kall, M. 123
Kaminskyj, S.G.W. 104 133
Karaffa, L. 34
Karagouni, A. 64
Karos, M. 20
Kashiwagi, Y. 66
Kato, N. 61
Kaufmann, U. 144
Keller, N.P. 11 16 134 146 155 160
Kelly, J.M. 10
Kessler, K.E. 141
Kiernan, U.A. 77
Kinghorn, J.R. 148
Kiso, T. 62
Kitamoto, K. 99
Knight, M.R. 91
Koch, A. 122
Koch, K.V. 63
Kocialkowska, J. 37
Konzack, S. 118 145
Koukaki, M. 3 64
Kozlova-Zwinderman, O. 91
Krappmann, S. 65
Krien, M.J. 95
Kubicek, C.P. 34
Kudla, B. 83
Künzler, M. 113
Kusumoto, K.-I. 66
Kwon-Chung, K.J. 20
Labedan, B. 117
Laborda, F. 107 121
Laich, F. 36
Lamb, H.K. 67
Lang, B.F. 131
Langin, T. 106
Lara-Ortíz, T. 68
Larivière, R.C. 92
Larke, N. 103
Larrondo, L.F. 69
Lasure, L.L. 23
Laugé, R. 106
Lea, P.J. 43
Lee, J.I. 70
Lee, M.Y. 70
Leone, P. 105
Leslie, K. 67
Levery, S.B. 8
Lewandowska, I. 59
Li, Q. 141
Liebmann, B. 71
Lin, X. 44 72 73
Lindsey, R. 8
Linz, J.E. 123 124 159
Liu, A. 53
Lowe, K.C. 110
Lunness, P.A. 108
Ma, G. 104
Mabey, J.E. 74
MacCabe, A.P. 75 151
Machado, M.F. 6
Macwana, S. 116
Madan, T. 129
Maddox, P. 102
Madrid, S.M. 89
Maeng, P.J. 70
Magnuson, J.K. 23
Mahanti, N. 124
Manavathu, E.K. 152
Manzanares, P. 105
Mao, X. 23
Marko, M. 104
Martic, G. 147
Martín, J.F. 5 36
Martin, N.C. 131
Martínez, O. 107
Martinez-Rossi, N.M. 93

Maruyama, J. 99
Masker, K. 24
Matthews, R.G. 59
Maurer-Stroh, S. 76
May, G.S. 158
McIntyre, M. 111 112
Means, A.R. 58 60
Medina, M.L. 77
Melin, P. 78 79
Melo, F. 69
Meyer, V. 80
Michielse, C.B. 81-83
Miller, C.J. 74
Miller, M.J. 124
Mirabito, P.M. 100
Miró, P. 75
Mizutani. O. 84
Molina, S.M. 43
Momany, C. 72
Momany, M. 8 44 49 72 73
Moreau, E. 108
Morinaga, T. 2
Morris, N.R. 53 85
Mort, A.J. 116
Mouritzen, P. 42
Mousavi, S.A.A. 86 87
Mueller, D. 80
Mühleisen, T.W. 71
Mukherjee, M. 88
Mukherjee, P.K. 88
Mukhopadhyay, R. 17
Mulder, H.J. 89
Müller, M. 71
Muralidhar, K. 129
Murphy, L. 103
Nahalkova, J. 90
Nakajima, H. 99
Nakajima, T. 84
Nakamura, A. 140
Naranjo, L. 5
Nargang, C.E. 141
Nargang, F.E. 141
Nelson, G. 91
Nguyen, K. 158
Nguyen, M.D. 92
Nielsen, J. 29 30 111 112
Nojima, A. 84
Nomura, Y. 46
Nozawa, S.R. 93
Ntambi, J.M. 155
Nutley, M. 67
O'Callaghan, J. 94
O'Connell, M.J. 95
O'Neil, S. 103
Oakley, B.R. 96 102 139
Oakley, C.E. 102
Oberegger, H. 32 97
Obrian, G.R. 98
Oestreicher, N. 117
Oka, M. 99
Oka, T. 100
Olivas, I. 107 121
Oliver, S.G. 74 136
Olsson, S. 144
Osbourn A.E. 85
Osherov, N. 55
Osmani, S.A. 24 27 100 102
Ota, T. 101
Ovechkina, Y. 102
Pain, A. 103
Palmer, D.R.J. 104
Palmieri, F. 107
Panepinto, J.C. 38
Paoletti, M. 28
Park, B.C. 70
Park, C. 8
Park, H.M. 70
Park, S.K. 92
Park, Y.H. 70
Parkinson, T. 56
Paszewski, A. 59

Patel, H. 125
Paton, N.W. 74
Payan, F. 105
Payne, G.A. 98 159
Pedregosa, A.M. 107
Pellier, A.-L. 106
Peñalva, M.A. 35 4 119 120
Penttilä, M. 89 150
Pérez, P. 107
Pertea, M. 103
Ping, X. 62
Pinto, M.R. 7
Pitt, C.W. 108
Plüddemann, A. 109
Plumridge, A. 110
Pollerman, S. 39
Porciero, S. 105
Posthumus, M.A. 21
Prade, R.A. 116 136
Prathumpai, W. 111 112
Price, C. 103
Pries, R. 113
Prieto, J.A. 52
Prior, B.A. 46
Punt, P.J. 83 91
Quail, M.A. 103
Rabbinowitsch, E. 103
Ragas, P. 83
Rajandream, M.A. 103
Ram, A.F.J. 81-3
Ramírez-Coronel, M.A. 114
Ramón, A.M. 115
Ramón, D. 75
Randez-Gil, F. 52
Rath P.-M. 130
Ratrick, M. 124
Ray, A. 116
Read, N.D. 91
Reichard, U. 65
Reinke, H. 147
Renwick. A. 91
Requena, N. 154
Rhodes, J.C. 38
Ribard, C. 117
Rinzema, A. 126
Rischitor, P.E. 118 145
Riveros-Rosas, H. 68
Robson, G.D. 74 86 87 136
Rochet, M. 117
Rodrigues, M.L. 7
Rodríguez, J.M. 119 120
Roesler, J. 122
Rogers, T. 65
Roilides, E. 26
Romans, A. 158
Rombouts, F.M. 21
Romero, B. 107 121
Rosa, A.L. 143 149
Rosen, BP. 17
Rösen-Wolff, A. 122
Rossi, A. 93
Roussel, A. 105
Roze, L.V. 123 124
Ruijter, G.J.G. 125 126 151
Ruíz-Sala, P. 119 120
Russell, H.H. 136
Rutherford, J.C. 127
Sadanandom, A. 128
Salas, L. 69
Salim, K. 83
Salmon, E.D. 102
Saloheimo, M. 89 150
Salzberg, S. 103
Sameshima, Y. 101
Sanada, K. 92
Sándor, E. 34
Sarma, P.U. 129
Saunders, D. 103
Saxena, S. 129
Scazzocchio, C. 3 18 41 117 143 149
Schmidt D. 130

Schneider, G. 33
Schnürer, J. 78 79
Schrettl, M. 97
Schulze-Lefert, P. 128
Seeger, K. 103
Seiboth, B. 34
Seif, E.R. 131
Seitz, A.E. 38
Seo, J.A. 47 48 132
Sepsi, A. 34
Sha, Y. 133
Shadkchan, Y. 55
Sharp, S. 103
Shi, X. 133
Shimizu, K. 134
Shirasu, K. 128
Shoun, H. 140
Shu, T. 92
Shuster, J.R. 142
Siddiqi, O. 135
Sideridou, M. 143
Sims, A.H. 136
Skalchunes, A.R. 142
Sophianopoulou, V. 3 143
Sorensen, J.L. 137
Spanu, P.D. 57
Stahl, U. 80
Stammers, D.K. 67
Stanger, C.P. 91
Stock, M.F. 138
Stratford, M. 110
Strowig, T. 80
Stummann, B.M. 144
Su, W, Li, S. 139
Suelmann, R. 63
Suzuki, S. 66
Szentirmai, A. 34
Taguchi, H. 2
Tahir, T. 105
Takasaki, K. 140
Takaya, N. 140
Takeo, K. 140
Tanaka, T. 62
Taniguchi, M. 62
Tanton, L.L. 141
Tanzer, M.M. 142
Tavoularis. S.N. 143
Tazebay, U.H. 143
Thompson, P. 67
Thrane, C. 144
Tilburn, J. 35
Timmis, K.N. 46
Toews, M.W. 145
Trindade, L.M. 51
Tsai, H.-F. 20
Tsai, L.-H. 92
Tseng, H.-C. 92
Tsitsigiannis, D.I. 146
Tüncher, A. 147
Turner, G. 39 121 136
Ugarte, M. 119 120
Ukil, L. 27
Unkles, S.E. 148
Valdez-Taubas, J. 149
Valkonen, M. 150
van de Vondervoort, P.J. 111 125
van den Hondel, C.A.M.J.J. 81-83 91
van der Veen, D. 51
van Ooyen, A.J.J. 51
van Zyl, W.H. 109
vanKuyk, P.A. 125 151
Varanasi, N.L. 152
Vederas, J.C. 137
Veith, D. 145
Veneault-Fourrey, C. 106
Ventura, L. 75
Vicuña, R. 69
Vienken, K. 145 154
Viniegra-González, G. 114
Vinuesa, C. 145
Visser, J. 125 126 151

Wagner, E.G. 78
Wagner, E.G. 79
Walther, A. 153
Wanchanthuek. P. 111
Wang, H. 150
Wang, R. 148
Wang, Y. 148
Ward, M. 150
Warmbold, J. 145
Warren, T. 103
Washietl, S. 76
Watson, A.J. 110
Weber, R. 154
Wei, H. 145 154
Weidner, G. 71
Wendland, J. 153
Whiteford, J.R. 57
Wildpaner, M. 33
Williamson, G. 105
Wilson, R.A. 155
Woloshuk, C.P. 159
Woodward, J. 103
Wu, D. 27
Xiang, X. 102 139 156
Xu, J. 157
Xue, T. 158
Yabe, K. 19
Yamagata, Y. 84
Yamaguchi, M. 140
Yamamoto, M. 84
Yu, J. 19 159
Yu, J.H. 47 48 132
Zarnowski, R. 146 155
Zhang, Y.Q. 160
Zhou, X. 104
Zuo, W. 53

Keywords

ABC transporters 25
Acetylated FacA 140
Acriflavine resistance 10
Actin interaction 12
Adenine deaminases 117
Aequorin 91
Aflatoxin biosynthesis 11 16 19 98 123 124 134 159
Agrobacterium-mediated transformation 80-83
Albendazole 9
Aldehyde catabolism 37
Allergens 129
Alpha/beta barrel enzymes 117
Alpha-aminoadipate pathway 104
Alternative oxidase 141
Alternative reproduction 6
AMA1 sequence 5 36
Ammonia fermentation 140
Ammonium-induced redistribution 149
Amphotericin B 87
Antifungal agents 7 9 104 122
Antigen production 109
APC transporters 143
Apoptosis 86 87 144
Arabitol dehydrogenase 34
Arabitonol dehydrogenase 119
Arrestin domain 10
Arsenate transport 17
Asilomar report 85
Aspergillus data repository 74
Autoregulation 89
Bafilomycin 78 79
Benomyl resistance 88
Benzimidazoles 9
bHLH transcription factor 147
Cadmium toxicity 43
CADRE 74
Calcium 60
Calcium measurement 91

Calmodulin 60
cAMP response 124 141
Carbon regulation 10 112 124 136 142
Carnitine/acylcarnitine translocase 107
Caspases 87 144
cDNA isolation 116
Cell cycle 24 27 30 31 31 53 58 60 95 101 108 153
Cell integrity signalling 84
Cell walls 1 8 44 100
Central Aspergillus data repository 74
Cerebrosides 7
Chaotropic agents 46
Chitin synthases 70
Chitinases 1 56
Chitosanase 119
CHP domain 128
Chronic granulomatous disease 26 122
Citric acid production 23
Colony morphology 23 147
Concanamycin 79
Conidial germination 3 21 38 46 72 73 75 110 158
Conidial robustness 125
Conidiation 12 38 48 61 70 73 78 84 132 144 147 152 155
Copper oxidase 69
Cotransformation 5
Cremophor EL 15
Cross-pathway control 65 113
Cyclin-dependent kinases 27
Cytochrome C 2
Cytokinesis 153
Cytoskeleton 49 96 156
Data repository 74
Dipeptidyl aminopeptidase 28
Diploid maintenance 118 128
DNA damage response 40
Dual-color imaging 139
Dynein 31
Endocytosis 149
Erythritol accumulation 46
Essential genes 121
Esterase 19
ESTs 136
Ethanol utilization 37 140
Ethanol-induced stress 46
Ethylene 123
Expressed sequence tags 136
Expression vectors 121 145
Farnesyltransferase 28
Fatty acid biosynthesis 155
Fatty acid dioxygenase 146
Fatty acid metabolism 107
Filamentous/pellet growth 23
Flavonoid degradation 75 76
Fluorescent markers 145
Fungal genetics 85
Galactitol 34
Galactose catabolism 34
GATA sites 41
GATEWAY 145
Gellan gum 130
Gene clusters 119 159
Gene disruption 55
Genome analysis 103
Genome database 74
Germination inhibitor 21
Glucanases 1
Glucose uptake 75
Glucosidase 114
Glufosinate 142
Glycans 8
Glycerol accumulation 46
Glycosphingolipids 8
Glycosylation 93
GPI lipid anchor prediction 33
G-protein receptors 47
G-protein regulators 48
Growth measurement 104 108 142
GTPases 12
Guido Pontecorvo 135
Heterokaryon recombination 6
Hexose transporter 154

Histone H1 50
Homoaconitase 71
Hydrophobicity 29
Hydrophobins 57
Hyphal branching 30 44 79 84 133 134
Hyphal polarity 12 39 44 49 72 73
Hyphal walls 1 8 44 100
Inhibitor-enzyme interaction 105
Intracellular acidification 110
Introns 89 157
Intron insertion 2
Iron uptake 45
Karyopherins 35 113
Kinesins 118 138
Leucine catabolism 119 120
Lignocellulose degradation 69 112
Linker histones 50
Lipid anchor 76
Lovastatin biosynthesis 11 137
Lysine biosynthesis 104
Manganese regulation 23
Mannitol 125
MAP kinase 158
MATE transposons 22
Mating type 28
Medical identification 130
Membrane proteins 76
Membrane trafficking 133
Metacaspases 144
Metal response 127
Methionine biosynthase 59
Methyl transferase 11
Methylcitrate cycle 160
Methylcrotonyl-CoA carboxylase 119
Methylglutaconic aciduria 120
Methylglutaconyl-CoA hydratase/lyase 120
Microarray, phenotypic 142
Microarrays 136
Microtubules 62
Microtubules binding 138
Mitochondrial distribution 63
Mitochondrial membrane 107
Mitochondrial RNase P 131
Mitosis 102 139
Mitotic arrest 62
Mitotic recombination 15
Mitotic spindle 62 102 118 139
Monacolin N 137
Multicopy transformants 82
Multiple drug resistance 25
NADPH oxidase 68
Negative subtractive hybridization 116
Neurofilament assembly 54 55 92
Nitrate assimilation 140
Nitrate reductase 148
Nitrate uptake 13 148
Nitrogen regulation 41 57 67 106
Nitrogen sensing 158
Nitrogen sources 142
Nuclear distribution 31 54 92 156
Nuclear transport 35 51 102 113
Nucleoporin 24
Nucleoside diphosphate kinase 72
Nutritional profiling 142
Ochratoxin production 94
Octenols 21
O-mannosyltransferase 100
Osmotic stress 70
Osteomyelitis 26
Oxidative stress 87
Parameiosis 6
PARP 144
Pathogenicity 26 42 65 71 106 122
Pellet formation 29
Penicillin production 11 61
Peptidyl-prolyl isomerase 58
pH regulation 4 32 35 110 115 151
pH sensitivity 79
Phenotypic microarray 142
Phenylalanine derivatives 62
Pheromone 28

Phialide development 78 147
Phosphatases 93
Plasmid integration 64 83
Polarity 12 39 44 49 72 73
Poly(ADP-ribose) polymerase 144
Polyketide biosynthesis 94 137 160
Polyol accumulation 46 126
Pontecorvo 135
Predicting protein motifs 33
Prenyl protease 28
Prenylation 76 77
Prenylcysteine carboxymethyl transferase 28
Proline transport 143
Promoter analysis 41 124
Propionate metabolism 160
Protein excretion 93
Protein folding 150
Protein kinases 95
Protein phosphorylation 134
Protein prenylation 76
Protein production 150
Protein secretion 57
Protein tagging 145
Proteolytic processing 84
Proteomics 75
Psi factors 146
Purine transport 18 149
RAC homologue 12
Reactive oxygen species 43 68
Red fluorescent protein 90
Redox sensing 67
Regulatable promoter 121
Repeat-induced point mutation 22
Replicating plasmid 5 36 64
Ribosomal proteins 129
Ribosomal spacer 130
RIP 22
RNase P 131
Rutin-induced proteins 77
Sclerotia 16
Secondary metabolism 11
Selection arena 14
Self-sterility 14
Septation 153
Sexual reproduction 14 47 61 68 70 123 154 155
Sexual/asexual balance 146
Siderophore 32 45 97 127
Solid-state fermentation 126
Somatic selection 14
Sorbic acid 110
Sorbose 34
Spindle 62 102 118 139
Stationary phase 86
Stearic acid desaturases 155
Sterigmatocystin biosynthesis 11 61 159 132 160
Stress tolerance 48 125
Sugar transporters 151
Subtractive hybridization 23
Tannase 114
Taxonomy 2
T-DNA 81 82
Telomeres 66 108
Thermotolerance 20
Transcription factors 51
Transformation
Transformation 5 36 64 80-83
Transposable elements 22
Transposon mutagenesis 55
Transposon tagging 18
Tubulins 88 96 102
Ubiquitin ligases 10
Ubiquitination 10
Unfolded protein response 89 150
Ura-blasting 52
Vacuolar membrane 99
Vacuole 149
V-ATPase 78 79
Vesicle trafficking 49
Virulence proteins 81
Virus-like particles 109
Voltage-gated nitrate transport 13

Voriconazole 122 152
Water activity 126
Water stress 46
Xylanase inhibitor 105
Xylose catabolism 111 112
Zinc binuclear cluster 51
Zinc finger 35
Zinc sensitivity 79

Genes

Superscripts:
[e] Heterologous gene expression in *Aspergillus*
[h] *Aspergillus* gene expressed elsewhere
[t] Transformation selective marker

A. nidulans

abcD 25
acuH 107
alc genes 37
alcA 121
alcR 37
amdS^t 82
aod-1 141
apsA 31
apyA 10 14
araA 34
arbD 119
areA 106[h] 142
avaB 99
azgA 3 18
benA33 62
bimC 138
catB 57[h]
chpA 128
chsA,B,C 70
cpcA 113 [h]
creA 75 112
creD 10
crnA 13[h]
csnA 119
devR 147
dewA 29
facA 140
fluG 132
galE 34
ganB 48
gprA-I 47
hbrB 39
hlyA 120
hulA-F 10
hxtA 154
hypA 133
ivdA 119
kapA 35
kex1 28
kipB 118
laeA 11
lysF 104
mat-1,-2 28
mccA,B 119
mcsA 160
mdmB 63
metH 59
mirA-C 32
MRP1 131
mstA 151 154
mstB 154
nadA 117
nimA 58 95
nimU 108
nmrA 67
noxA 68
npgA 97
nrtA 13[h] 148
nudE 31 53 54 92
nudF 31 53
pacC 32 35 93 115

phiA 78
phoA,B 27
pinA 58
pmtA 100
ppgA 28
ppoA 146
preA,B 28
prnB 41 143
ram1,2 28
rasA,B 38
rgsA-C 48 61
rhoA 44
rodA 29
sdeA,B 155
sfgA-D 132
sidA 32
sonB 24
sorA 75
ste13,14,24 28
swoC 73
swoH 72
uapA,C 3
uvsH 15
veA 61
vmaA 79
xlnB 52[h]
xlnC 105

A. flavus
aflA-Y 159

A. fumigatus
argB 55
chiB1 56
cnx1,3 148
egh16H 42
laeA 11
lysF 71
matA 28
nudC 121
rasA rasB 38
rpl3 129
sakA 158
thtA 20

A. giganteus
AFP 157

A. niger
hacA 89
mpdA 125
mstA 151
niaD 148
xlnR 51

A. occhraceus
pks 94

A. oryzae
kexB 84
niaD 148

A. parasiticus
aflA-Y 159
estA 19
norR 124
veA 16

A. terreus
lovB,C^[e], lovC^[e] 137

Blumeria graminis
Egh16H 42

Candida albicans
rim101 115

Colletotrichum lindemuthianu
clnr1^[e] 106

DOI: 10.4148/1941-4765.1145

Gelasinospora aod-1 141

Neurospora crassa
aod-1 141
nit-3,10 148

Penicillium funiculosum
xynC 105

Penicillium marneffei
cflB 12

Phanerochaete chrysosporium
mco1^e 69

Saccharomyces cerevisiae
aah1 117
gnn4 113

Schizosaccharomyces pombe
dea2 117

Arabidopsis
NIA2 148

Homo sapiens
NUDEL 54,92

Organisms (see also “genes”

fungi

A. awamori 81 82 91
A. flavus 9 77 98 152
A. fumigatus 9 26 65 86 87 103 130 142
A. fumigatus 52
A. giganteus 80
A. niger 9 23 91 109 110 111 114 150 152
A. oryzae 66 126
A. parasiticus 98 123
A. terreus 9 11 130
A. ustus 130
Aspergillus sp.P37 17
Cladosporium fulvum 57^h
Fusarium oxysporum 90
Magnaporthe grisea 142
Mycosphaerella graminicola 142
Neurospora crassa 91
Penicillium chrysogenum 5
Penicillium paneum 21
Pichia pastoris 148
Rhizopus oryzae 83
Rosellinia necatrix 2
Torulaspora delbrueckii 52
Trichoderma virens 88 157

Other organims

Agrobacterium tumefaciens 80-82
Pichia pastoris 56^h
Xenopus laevis 13^h