

ASPERGILLUS BIBLIOGRAPHY 2010

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. School of Biology, College of Medical, Veterinary and Life Sciences, University of Glasgow. Present address: Flat B/R, 43 Partickhill Road, Glasgow G11 5BY, Scotland, UK.

Email: jclutterbuck481@btinternet.com

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1. **Aguilar-Osorio, G., vanKuyk, P.A., Seiboth, B., Blom, D., Solomon, P.S., Vinck, A., Kindt, F., Wösten, H.A.B. & de Vries, R.P.** 2010 Spatial and developmental differentiation of mannitol dehydrogenase and mannitol-1-phosphate dehydrogenase in *Aspergillus niger*. *Eukaryot. Cell* **9**: 1398-1402
2. **Ahmed, S., Rinz, S. & Jamil, A.** 2009 Molecular cloning of fungal xylanases. *Appl. Microbiol. Biotechnol.* **84**: 19-35
3. **Amich, J., Vicente-franqueira, R., Leal, F. & Calera, J.A.** 2010 *Aspergillus fumigatus* survival in alkaline and extreme zinc-limiting environments relies on the induction of a zinc homeostasis system encoded by the *zrfC* and *asf2* genes. *Eukaryot. Cell* **9**: 424-437
4. **Antony-Babu, S. & Singleton, I.** 2009 Effect of ozone on spore germination, spore production and biomass production in two *Aspergillus* species. *Ant. van Leeuwenhoek.* **96**: 413-422
5. **Baker, S.E.** 2009 Selection to sequence: opportunities in fungal genomics. *Env. Microbiol.* **11**: 2955-2958
6. **Balázs, A., Pócsi, I., Hamari, Z., Leiter, E., Emri, T., Miskei, M., Oláh, J., Tóth, V., Hegedús, N., Prade, R.A., Molnár, M. & Pócsi, I.** 2010 *AtfA* bZIP-type transcription factor regulates oxidative and osmotic stress responses in *Aspergillus nidulans*. *Mol. Gen. Genom.* **283**: 289-303
7. **Barakat, H., Spielvogel, A., Hassan, M., El-Desouky, A., El-Mansy, H., Rath, F., Meyer, V. & Stahl, U.** 2010 The antifungal protein AFP from *Aspergillus giganteus* prevents secondary growth of different *Fusarium* species on barley. *Appl. Microbiol. Biotechnol.* **87**: 617-624
8. **Bauer, I., Graessle, S., Loidl, P., Hohenstein, K. & Brosch, G.** 2010 Novel insights into the functional role of three protein arginine methyltransferases in *Aspergillus nidulans*. *Fungal Genet. Biol.* **47**: 551-561
9. **Bayram, Ö., Braus, G.H., Fischer, R. & Rodriguez-Romero, J.** 2010 Spotlight on *Aspergillus nidulans* photosensory systems. *Fungal Genet. Biol.* **47**: 900-908
10. **Beckham, K.S., Potter, J.A. & Unkles, S.E.** 2010 Formate-nitrite transporters: optimisation of expression, purification and analysis of prokaryotic and eukaryotic representatives. *Protein Expres. Purif.* **71**: 184-189
11. **Behera, B.C., Sonone, A. & Makhija, U.** 2009 Protoplast isolation from cultured lichen *Usnea ghattensis*, their fusion with protoplasts of *Aspergillus nidulans*, fusant regeneration and production of usnic acid. *Folia Microbiol.* **54**: 415-418
12. **Bien, V.M. & Espenshade, P.J.** 2010 Sterol regulatory element binding proteins in fungi: hypoxic transcription factors linked to pathogenesis. *Eukaryot. Cell* **9**: 352-359
13. **Binder, U., Chu, M., Read, N.D. & Marx, F.** 2010 The antifungal activity of the *Penicillium chrysogenum* protein PAF disrupts calcium homeostasis in *Neurospora crassa*. *Eukaryot. Cell* **9**: 1374-1382
14. **Binder, U., Oberparleiter, C., Meyer, V. & Marx, F.** 2010 The antifungal protein PAF interferes with PKC/MPK and cAMP/PKA signalling of *Aspergillus nidulans*. *Mol. Microbiol.* **75**: 294-307
15. **Bok, J.W., Chiang, Y.-M., Szewczyk, E., Reyes-Dominguez, Y., Davidson, A.D., Sanchez, J.F., Lo, H.-C., Watanabe, K., Strauss, J., Oakley, B.R., Wang, C.C.C. & Keller, N.P.** 2009 Chromatin-level regulation of biosynthetic gene clusters. *Nat. Chem. Biol.* **5**: 462-464, comment: pp. 450-452. corrigendum p. 696.
16. **Brambl, R.** 2009 Fungal physiology and the origins of molecular biology. *Microbiol.* **154**: 3799-3809
17. **Brodhun, F., Schneider, S., Göbel, C., Hornung, E. & Feussner, I.** 2010 PpoC from *Aspergillus nidulans* is a fusion protein with only one active haem. *Biochem. J.* **425**: 553-565
18. **Brown-Marshall, C.D., Diebold, A.R. & Solomon, E.I.** 2010 Reaction coordinate of isopenicillin N synthase: oxidase versus oxygenase activity. *Biochem.* **49**: 1176-1182
19. **Bugeja, H.E., Hynes, M.J. & Alexopoulos, A.** 2010 The RFX protein RfxA is an essential regulator of growth and morphogenesis in *Penicillium marneffeii*. *Eukaryot. Cell* **9**: 578-591

20. Cairns, T., Minjuzzi, F. & Bignell, E. 2010 The host-infecting fungal transcriptome. *FEMS Lett.* **307**: 1-11
21. Cao, W., Maruyama, J.-i., Kitamoto, K., Sumikoshi, K., Terada, T., Nakamura, S. & Shimizu, K. 2009 Using a new GPI-anchored-protein identification system to mine the protein databases of *Aspergillus fumigatus*, *Aspergillus nidulans*, and *Aspergillus oryzae*. *J. Gen. Appl. Microbiol.* **55**:381-393
22. Cardoso, R.A., Pires, L.T.A., Zucchi, T.D., Zucchi, F.D. & Zucchi, T.M.A.D. 2010 Mitotic crossing-over induced by two commercial herbicides in diploid strains of the fungus *Aspergillus nidulans*. *Genet. Mol. Res.* **9**: 231-238
23. Carr, P.D., Tuckwell, D., Hey, P.M., Simon, L., d'Enfert, C., Birch, M., Oliver, J.D. & Bromley, M.J. 2010 The transposon *impala* is activated by low temperatures: use of a controlled transposition system to identify genes critical for viability of *Aspergillus fumigatus*. *Eukaryot. Cell* **9**: 438-448
24. Carvalho, N.D.S.P., Arentshorst, M., Kwon, M.J., Meyer, V. & Ram, A.F.J. 2010 Expanding the *ku70* toolbox for filamentous fungi: establishment of complementation vectors and recipient strains for advanced gene analysis. *Appl. Microbiol. Biotechnol.* **87**: 1463-1473
25. Chellegatti, M.A.S.C., Yuvamoto, P.D. & Said, S. 2010 Role of phospholipase C and protein kinase C in *Aspergillus nidulans* during growth on pectin or glucose: Effects on germination and duplication cycle. *Folia Microbiol.* **55**:228-232
26. Chen, S., Song, Y., Cao, J., Wang, G., Wei, H., Xu, X. & Lu, L. 2010 Localization and function of calmodulin in live-cells of *Aspergillus nidulans*. *Fungal Genet. Biol.* **47**:268-278
27. Chen, X.-a., Ishida, N., Todaka, N., Nakamura, R., Maruyama, J.-i., Takahashi, H. & Kitamoto, K. 2010 Promotion of efficient saccharification of crystalline cellulose by *Aspergillus fumigatus* Swol. *Appl. Env. Microbiol.* **76**: 2556-2561
28. Chiang, Y.-M., Oakley, B.R., Keller, N.P. & Wang, C.C.C. 2010 Unravelling polyketide synthesis in members of the genus *Aspergillus*. *Appl. Microbiol. Biotechnol.* **86**: 1719-1736
29. Chiang, Y.-M., Szewczyk, E., Davidson, A.D., Entwistle, R., Keller, N.P., Wang, C.C.C. & Oakley, B.R. 2010 Characterization of the *Aspergillus nidulans* monodictyphenone gene cluster. *Appl. Env. Microbiol.* **76**: 2067-2074
30. Chiang, Y.-M., Szewczyk, E., Davidson, A.D., Keller, N.P., Oakley, B.R. & Wang, C.C.C. 2009 A gene cluster containing two fungal polyketide synthases encodes the biosynthetic pathway for a polyketide, asperfuranone, in *Aspergillus nidulans*. *J. Am. Chem. Soc.* **131**: 2965-2970
31. de Castro-Prado, J., Franco, C.C.da S., de Sant'Anna, J.R., Miyamoto, C.T. & de Castro-Prado, M.A.A. 2009 Recombinogenic activity of fluoxetine in *Aspergillus nidulans*. *Drug Chem. Toxicol.* **32**: 338-343
32. de Oliveira, J.M.P.F., van Passel, M.W.J., Schaap, P.J. & de Graaf, L.H. 2010 Shotgun proteomics of *Aspergillus niger* microsomes upon D-xylose induction. *Appl. Env. Microbiol.* **76**: 4421-4429
33. Dichtl, K., Ebel, F., Dirr, F., Routier, F.H., Heesemann, J. & Wagener, J. 2010 Farnesol misplaces tip-localized Rho proteins and inhibits cell wall integrity signalling in *Aspergillus fumigatus*. *Mol. Microbiol.* **76**: 1191-1204
34. Drioch, H., Roth, A., Dersch, P. & Wittmann, C. 2010 Optimized bioprocess for production of fructofuranosidase by recombinant *Aspergillus niger*. *Appl. Microbiol. Biotechnol.* **87**: 2011-2024
35. Ehrlich, K.C., Chang, P.-K., Scharfenstein, L.L.Jr., Cary, J.W., Crawford, J.M. & Townsend, C.A. 2010 Absence of the aflatoxin biosynthesis gene, *norA*, allows accumulation of deoxyaflatoxin B₁ in *Aspergillus flavus* cultures. *FEMS Microbiol. Lett.* **305**: 65-70
36. Ejzykowicz, D.E., Solis, N.V., Gravelat, F.N., Chabot, J., Li, X., Sheppard, D.C. & Filler, S.G. 2010 Role of *Aspergillus fumigatus* DvrA in host cell interactions and virulence. *Eukaryot. Cell* **9**: 1432-1440
37. El-Ganiny, A.M., Sheoran, I., Sanders, D.A.R. & Kaminskij, S.G.W. 2010 *Aspergillus nidulans* UDP-glucose-4-epimerase UgeA has multiple roles in wall architecture, hyphal morphogenesis, and asexual development. *Fungal Genet. Biol.* **47**:629-635
38. Etxebeste, O., Markina-Iñarrairaegui, A., Garzia, A., Herrero-García, E., Ugalde, U. & Espeso, E.A. 2009 KapI, a non-essential member of the Pse1p/Imp5 karyopherin family, controls colonial and asexual development in *Aspergillus nidulans*. *Microbiol.* **155**: 3934-3945
39. Fang, W., Ding, W., Wang, B., Zhou, H., Ouyang, H., Ming, J. & Jin, C. 2010 Reduced expression of the O-mannosyltransferase 2 (AfPmt2) leads to deficient cell wall and abnormal polarity in *Aspergillus fumigatus*. *Glycobiol.* **20**: 542-552
40. Fang, W., Yu, X., Wang, B., Zhou, H., Ouyang, H., Ming, J. & Jin, C. 2009 Characterization of the *Aspergillus fumigatus* phosphomannose isomerase Pmi1 and its impact on cell wall synthesis and morphogenesis. *Microbiol.*

155: 3281-3293

41. Findon, H., Calcagogno-Pizarelli, A.-M., Martínez, J.L., Spielvogel, A., Markina-Iñárraiaegui, A., Indrakumar, T., Ramos, J., Peñalva, M.A., Espeso, E.A. & Arst, H.N.Jr. 2010 Analysis of a novel calcium auxotrophy in *Aspergillus nidulans*. *Fungal Genet. Biol.* **47**: 647-655
42. Fleck, C.B. & Brock, M. 2010 *Aspergillus fumigatus* catalytic glucokinase and hexokinase: expression analysis and importance for germination, growth, and conidiation. *Eukaryot. Cell* **9**: 1120-1135
43. Fleißner, A. & Dersch, P. 2010 Expression and export: recombinant protein production systems for *Aspergillus*. *Appl. Microbiol. Biotechnol.* **87**: 1255-1277
44. Fontaine, T., Beauvais, A., Loussert, C., Thevenard, B., Fuigsang, C.C., Ohno, N., Clavaud, C., Prevost, M.-C. & Latgé, J.-P. 2010 Cell wall α 1-3glucans induce the aggregation of germinating conidia of *Aspergillus fumigatus*. *Fungal Genet. Biol.* **47**: 707-712
45. Frandsen, R.J.N., Albertsen, K.S., Stougaard, P., Sørensen, J.L., Nielsen, K.F., Olsson, S. & Giese, H. 2010 Methylenetetrahydrofolate reductase activity is involved in the plasma membrane redox system required for pigment biosynthesis in filamentous fungi. *Eukaryot. Cell* **9**: 1225-1235
46. Gamarra, N.N., Villena, G.K. & Gutiérrez-Correa, M. 2010 Cellulase production by *Aspergillus niger* in biofilm, solid-state, and submerged fermentations. *Appl. Microbiol. Biotechnol.* **87**: 545-551
47. Garzia, A., Etchebeste, O., Herrero-García, E., Ugalde, U. & Espeso, E.A. 2010 The concerted action of bZip and cMyb transcription factors FlbB and FlbD induces *brlA* expression and asexual development in *Aspergillus nidulans*. *Mol. Microbiol.* **75**: 1314-1324
48. Gastebois, A., Fontaine, T., Latgé, J.-P. & Mouyna, I. 2010 b(1-3)glucanosyltransferase Gel4p is essential for *Aspergillus fumigatus*. *Eukaryot. Cell* **9**: 1294-1298
49. Ge, W., Clifton, I.J., Stok, J.E., Adlington, R.M., Baldwin, J.E. & Rutledge, P.J. 2010 The crystal structure of an LLL-configured depsipeptide substrate analogue bound to isopenicillin N synthase. *Org. Biomol. Chem.* **8**: 122-127
50. Gehrke, A., Heinekamp, T., Jacobsen, I.D. & Brakhage, A.A. 2010 Heptahelical receptors GprC and GprD of *Aspergillus fumigatus* are essential regulators of colony growth, hyphal morphogenesis, and virulence. *Appl. Env. Microbiol.* **76**: 3989-3998
51. Godet, M. & Munaut, F. 2010 Molecular strategy for identification in *Aspergillus* section *Flavi*. *FEMS Microbiol. Lett.* **304**: 157-168
52. Gonzales, F.P., da Silva, S.H., Roberts, D.W. & Braga, G.U. 2010 Photodynamic inactivation of conidia of the fungi *Metarhizium anisopliae* and *Aspergillus nidulans* with methylene blue and toluidine blue. *Photochem. Photobiol.* **86**: 653-661
53. Gournas, C., Amillis, S., Vlanti, A. & Diallinas, G. 2010 Transport-dependent endocytosis and turnover of a uric acid-xanthine permease. *Mol. Microbiol.* **75**: 246-260
54. Gravelat, F.N., Ejzykowicz, D.E., Chiang, L.Y., Chabot, J.C., Urb, M., Macdonald, K.D., al-Bader, N., Filler, S.G. & Sheppard, D.C. 2010 *Aspergillus fumigatus* MedA governs adherence, host cell interactions and virulence. *Cell. Microbiol.* **12**: 473-488
55. Han, K.-H., Chun, Y.-H., Figueiredo, B.De C.P., Soriani, F.M., Savoldi, M., Almeida, A., Rodriguez, F., Cairns, C.T., Bignell, E., Tobal, J.M., Goldman, M.H.S., Kim, J.-H., Bahn, Y.-S., Goldman, G.H. & Ferreira, M.E.Da S. 2010 The conserved and divergent roles of carbonic anhydrases in filamentous fungi *Aspergillus fumigatus* and *Aspergillus nidulans*. *Mol. Microbiol.* **75**: 1372-1388
56. Han, M.-J., Kim, N.-J., Lee, S.Y. & Chang, H.N. 2010 Extracellular proteome of *Aspergillus terreus* grown on different carbon sources. *Curr. Genet.* **56**: 369-382
57. Hartmann, T., Dümig, M., Jaber, B.M., Szewczyk, E., Olbermann, P., Morschhäuser, J. & Krappmann, S. 2010 Validation of a self-excising marker in the human pathogen *Aspergillus fumigatus* by employing the b-rec/six site-specific recombination system. *Appl. Env. Microbiol.* **76**: 6313-6317
58. Hasegawa, S., Takizawa, M., Suyama, H., Shintani, T. & Gomi, K. 2009 Characterization and expression analysis of a maltose-utilizing (*MAL*) cluster in *Aspergillus oryzae*. *Fungal Genet. Biol.* **47**: 1-9, erratum p. 497.
59. Hervás-Aguilar, A., Galindo, A. & Peñalva, M.A. 2010 Receptor-independent ambient pH signaling by ubiquitin attachment to fungal arrestin-like PalF. *J. Biol. Chem.* **285**: 18095-18102
60. Hervás-Aguilar, A. & Peñalva, M.A. 2010 Endocytic machinery protein is dispensable for polarity establishment but necessary for polarity maintenance in hyphal tip cells of *Aspergillus nidulans*. *Eukaryot. Cell* **9**: 1504-1518
61. Hervás-Aguilar, A., Rodriguez-Galán, O., Galindo, A., Abenza, J.F., Arst, H.N.Jr. & Peñalva, M.A. 2010

- Characterization of *Aspergillus nidulans* DidB^{Did2}, a non-essential component of the multivesicular body pathway. Fungal Genet. Biol. **47**: 636-646
62. Hoff, B., Kamerewerd, J., Sigl, C., Mitterbauer, R., Zadra, I., Kürsteiner, H. & Kück, U. 2010 Two components of a velvet-like complex control hyphal morphogenesis, conidiophore development, and penicillin biosynthesis in *Penicillium chrysogenum*. Eukaryot. Cell **9**: 1236-1250
63. Hoff, B., Kamerewerd, J., Sigl, C., Zadra, I. & Kück, U. 2009 Homologous recombination in the antibiotic producer *Penicillium chrysogenum*: strain DPcku70 shows up-regulation of genes from the HOG pathway. Appl. Microbiol. Biotechnol. **85**: 1081-1094
64. Hoi, J.W.S. & Dumas, B. 2010 Ste12 and Ste12-like proteins, fungal transcription factors regulating development and pathogenicity. Eukaryot. Cell **9**: 480-485
65. Hynes, M.J. & Murray, S.L. 2010 ATP-citrate lyase is required for production of cytosolic acetyl coenzyme A and development in *Aspergillus nidulans*. Eukaryot. Cell **9**: 1039-1048
66. Hynes, M.J., Murray, S.L. & Kahn, F.K. 2010 Deletion of the RING-finger peroxin 2 gene in *Aspergillus nidulans* does not affect meiotic development. FEMS Microbiol. Lett. **306**: 67-71
67. Jackson-Hayes, L., Hill, T.W., Loprete, D.M., Gordon, B.S., Groover, C.J., Johnson, L.R. & Martin, S.A. 2010 GDP-mannose transporter paralogues play distinct roles in polarized growth of *Aspergillus nidulans*. Mycologia **102**: 305-310
68. Jin, F.J., Takahashi, T., Machida, M. & Koyama, Y. 2009 Identification of a basic helix-loop-helix-type transcription regulator gene in *Aspergillus oryzae* by systematically deleting large chromosome segments. Appl. Env. Microbiol. **75**: 5943-5951
69. Jin, F.J., Takahashi, T., Utsushikawa, M., Furukido, T., Nishida, M., Ogawa, M., Tokuoka, M. & Koyama, Y. 2010 A trial of minimization of chromosome 7 in *Aspergillus oryzae* by multiple chromosomal deletions. Mol. Gen. Genomics **283**: 1-12
70. Jørgensen, T.R., Nitsche, B.M., Lamers, G.E., Arentshorst, M., van den Hondel, C.A. & Ram, A. 2010 Transcriptomic insights into the physiology of *Aspergillus niger* approaching a specific growth rate of zero. Appl. Env. Microbiol. **76**: 5344-5355
71. Khaldi, N., Seifudin, F.T., Turner, G., Haft, D., Nierman, W.C., Wolfe, K.H. & Fedorova, N.D. 2010 SMURF: genomic mapping of fungal secondary metabolite clusters. Fungal Genet. Biol. **47**: 736-741
72. Kim, B., Sullivan, R.P. & Zhao, H. 2010 Cloning, characterization, and engineering of fungal L-arabinitol dehydrogenases. Appl. Microbiol. Biotechnol. **87**: 1407-1414
73. Kojima, T., Hashimoto, Y., Kato, M., Kobayashi, T. & Nakano, H. 2010 High-throughput screening of DNA binding sites for transcription factor AmyR from *Aspergillus nidulans* using DNA beads display system. J. Biosci. Bioeng. **109**: 519-525
74. Konwarth, R., Kalita, D., Mahanta, C., Mandal, M. & Karak, N. 2010 Magnetically recyclable, antimicrobial, and catalytically enhanced polymer-assisted "green" nanosystem-immobilized *Aspergillus niger* amyloglucosidase. Appl. Microbiol. Biotechnol. **87**: 1983-1992
75. Kosti, V., Papageorgiou, I. & Diallinas, G. 2010 Dynamic elements at both cytoplasmically and extracellularly facing sides of the UapA transporter selectively control the accessibility of substrates to their translocation pathway. J. Mol. Biol. **397**: 1132-1143
76. Kotz, A., Wagener, J., Engel, J., Routier, F., Echtenacher, B., Pich, A., Rohde, M., Hoffmann, P., Heesemann, J. & Ebel, F. 2009 The *mitA* gene of *Aspergillus fumigatus* is required for mannosylation of inositol-phosphorylceramide, but is dispensable for pathogenicity. Fungal Genet. Biol. **47**: 169-178
77. Kück, U. & Hoff, B. 2010 New tools for the genetic manipulation of filamentous fungi. Appl. Microbiol. Biotechnol. **86**: 51-62
78. Kwon, N.-J., Garzia, A., Espeso, E.A., Ugalde, U. & Yu, J.-H. 2010 FlbC is a putative C₂H₂ transcription factor regulating development in *Aspergillus nidulans*. Mol. Microbiol. **77**: 1203-1219
79. Lambou, K., Lamarre, C., Beau, R., Dufour, N. & Latgé, J.-P. 2010 Functional analysis of the superoxide dismutase family in *Aspergillus fumigatus*. Mol. Microbiol. **75**: 910-923
80. Lee, H.-U., Park, J.-B., Lee, H., Chae, K.-S., Han, D.-M. & Jahng, K.-Y. 2010 Predicting the chemical composition and structure of *Aspergillus nidulans* hyphal wall surface by atomic force microscopy. J. Microbiol. **48**: 243-248
81. Levdansky, E., Kashi, O., Sharon, H., Shadkchan, Y. & Osherov, N. 2010 The *Aspergillus fumigatus* *cspA* gene encoding a repeat-rich cell wall protein is important for normal conidial cell wall architecture and interaction with <https://newprairiepress.org/fgr/vol57/iss1/6>
DOI: 10.4148/1941-4765.1072

host cells. *Eukaryot. Cell* **9**: 1403-1415

82. Li, C.-Y., Liu, L., Yang, J., Li, J.-B., Su, Y., Zhang, Y., Wang, Y.Y. & Zhu, Y.-Y. 2009 Genome-wide analysis of microsatellite sequence in seven filamentous fungi. *Interdisc. Sci. Comput. Life Sci.* **1**: 141-150
83. Lindsey, R., Cowden, S., Hernández-Rodríguez, Y. & Momany, M. 2010 Septins AspA and AspC are important for normal development and limit the emergence of new growth foci in the multicellular fungus *Aspergillus nidulans*. *Eukaryot. Cell* **9**: 155-163
84. Liu, H.L., Osmani, A.H., Ukil, L., Son, S., Markossian, S., Shen, K.-F., Govindaraghavan, M., Varadaraj, A., Hashmi, S.B., De Souza, C.P. & Osmani, S.A. 2010 Single-step affinity purification for fungal proteomics. *Eukaryot. Cell* **9**: 831-833
85. López-Villavicencio, M., Aguileta, G., Giraud, T., de Vienne, D.M., Lacoste, S., Couloux, A. & Dupont, J. 2010 Sex in *Penicillium*: combined phylogenetic and experimental approaches. *Fungal Genet. Biol.* **47**:693-706
86. Luo, Y., Gao, W. & Doster, T.J. 2009 Quantification of conidial density of *Aspergillus flavus* and *A. parasiticus* in soil from almond orchards using real-time PCR. *J. Appl. Microbiol.* **106**: 1649-1660
87. Malandra, A., Cantarella, M., Kaplan, O., Vejvoda, V., Uhnáková, B., Stepánková, B., Kubác, D. & Martínková, L. 2009 Continuous hydrolysis of 4-cyanopyridine by nitrilases from *Fusarium solani* 01 and *Aspergillus niger* K10. *Appl. Microbiol. Biotechnol.* **85**: 277-284
88. Marui, J., Yoshima, A., Hagiwara, D., Fujii-Watanabe, Y., Oda, K., Koike, H., Tamano, K., Ishii, T., Sano, M., Machida, M. & Abe, K. 2009 Use of *Aspergillus oryzae* actin gene promoter in a novel reporter system for exploring antifungal compounds and their target genes. *Microbiol. Biotechnol.* **87**: 1829-1840
89. Meijer, S., de Jongh, W.A., Olsson, L. & Nielsen, J. 2009 Physiological characterization of *acuB* deletion in *Aspergillus niger*. *Appl. Microbiol. Biotechnol.* **84**: 157-167
90. Min, I.S., Bang, J.Y., Seo, S.W., Lee, C.H. & Maeng, P.J. 2010 Differential expression of *citA* gene encoding the mitochondrial citrate synthase of *Aspergillus nidulans* in response to developmental status and carbon sources. *J. Microbiol.* **48**: 188-198
91. Mircus, G., Hagag, S., Levdansky, E., Sharon, H., Shadkchan, Y., Shalit, I. & Osherov, N. 2009 Identification of novel cell wall destabilizing antifungal compounds using a conditional *Aspergillus nidulans* protein kinase C mutant. *J. Antimicrob. Chemother.* **64**: 755-763
92. Miyamoto, C.T., Sant'Anna, J.R., Franco, C.C. da S., Cunico, M.M., Miguel, O.G., Cocco, L.C., Yamamoto, C.I., Correa, C. Jr. & de Castro-Prado, M.A.A. 2009 Genotoxic activity of *Eucalyptus globulus* essential oil in *Aspergillus nidulans* diploid cells. *Folia Microbiol.* **54**: 493-498
93. Mojzita, D., Wiebe, M., Hilditch, S., Boer, H., Penttilä, M. & Richard, P. 2010 Metabolic engineering of fungal strains for conversion of D-galacturonate to meso-galactarate. *Appl. Env. Microbiol.* **76**: 169-175
94. Monteiro, M.C. & De Lucas, J.R. 2009 Study of the essentiality of the *Aspergillus fumigatus triA* gene, encoding RNA triphosphatase, using the heterokaryon rescue technique and the conditional gene expression driven by the *alcA* and *niiA* promoters. *Fungal Genet. Biol.* **47**:66-79
95. Morita, H., Okamoto, A., Yamagata, Y., Kusumoto, K., Koide, Y., Ishida, H. & Takeuchi, M. 2009 Heterologous expression and characterization of Cpl, OcpA, and novel serine-type carboxypeptidase OcpB from *Aspergillus oryzae*. *Appl. Microbiol. Biotechnol.* **85**: 335-346
96. Morozov, I.Y., Jones, M.G., Razak, A.A., Rigden, D.J. & Caddick, M.X. 2010 CUCU modification of mRNA promotes decapping and transcript degradation in *Aspergillus nidulans*. *Mol. Cell. Biol.* **30**: 460-469
97. Morozov, I.Y., Jones, M.G., Spiller, D.G., Rigden, D.J., Dattenböck, C., Novotny, R., Strauss, J. & Caddick, M.X. 2010 Distinct roles for Caf1, Ccr4, Edc3 and CutA in the co-ordination of transcript deadenylation, decapping and P-body formation in *Aspergillus nidulans*. *Mol. Microbiol.* **76**: 503-516, correction p. 802.
98. Morschhäuser, J. 2009 Regulation of multidrug resistance in pathogenic fungi. *Fungal Genet. Biol.* **47**:94-106
99. Mouyna, I., Kniemeyer, O., Jank, T., Loussert, C., Mellado, E., Aïmanianda, V., Beauvais, A., Wartenberg, D., Sarfati, J., Bayry, J., Prévost, M.-C., Brakhage, A.A., Strahl, S., Huerre, M. & Latgé, J.-P. 2010 Members of protein O-mannosyltransferase family in *Aspergillus fumigatus* differentially affect growth, morphogenesis and viability. *Mol. Microbiol.* **76**: 1205-1221
100. Mullaney, E.J., Locovare, H., Sethumadhavan, K., Boone, S., Lei, X.G. & Ullah, A.H.J. 2010 Site-directed mutagenesis of disulphide bridges in *Aspergillus niger* NRRL 3135 phytase (PhyA), their expression in *Pichia pastoris* and catalytic characterization. *Appl. Microbiol. Biotechnol.* **87**: 1367-1372
101. Murray, S.L. & Hynes, M.J. 2010 Metabolic and developmental effects resulting from deletion of the *citA* gene encoding citrate synthase in *Aspergillus nidulans*. *Eukaryot. Cell* **9**: 656-666
102. Nakahama, T., Nakanishi, Y., Viscomi, A.R., Takaya, K., Kitamoto, K., Ottonello, S. & Arioka, M. 2010

- Distinct enzymatic and cellular characteristics of two secretory phospholipases A₂ in the filamentous fungus *Aspergillus oryzae*. *Fungal Genet. Biol.* **47**:318-331
103. Nakai, H., Baumann, M.J., Petersen, B.O., Westphal, Y., Hachem, M.A., Dilokpimol, A., Duus, J.Ø., Schols, H.A. & Svensson, B. 2010 *Aspergillus nidulans* α-galactosidase of glycoside hydrolase family 36 catalyses the formation of α-galacto-oligosaccharides by transglycosylation. *FEBS J.* **277**: 3538-3551
104. Nayak, T., Edgerton-Morgan, H., Horio, T., Xiong, Y., De Souza, C.P., Osmani, S.A. & Oakley, B.R. 2010 γ-tubulin regulates the anaphase-promoting complex/cyclosome during interphase. *J. Cell Biol.* **190**:317-330
105. Nicholson, M.J., Koulman, A., Monahan, B.J., Pritchard, B.L., Payne, G.A. & Scott, B. 2009 Identification of two aflatoxin biosynthesis gene loci in *Aspergillus flavus* and metabolic engineering of *Penicillium paxilli* to elucidate their function. *Appl. Env. Microbiol.* **75**: 7469-7481
106. Noguchi, Y., Sano, M., Kanamaru, K., Ko, T., Takeuchi, M., Kato, M. & Kobayashi, T. 2009 Genes regulated by AoXlnR, the xylanolytic and cellulolytic transcriptional regulator, in *Aspergillus oryzae*. *Appl. Microbiol. Biotechnol.* **85**: 141-154
107. Ogawa, M., Tokuoka, M., Jin, F.J., Takahashi, T. & Koyama, Y. 2010 Genetic analysis of conidiation regulatory pathways in koji-mold *Aspergillus oryzae*. *Fungal Genet. Biol.* **47**:10-18
108. Oh, Y.T., Ahn, C.-S., Kim, J.G., Ro, H.-S., Lee, C.-W. & Kim, J.W. 2010 Proteomic analysis of early phase of conidia germination in *Aspergillus nidulans*. *Fungal Genet. Biol.* **47**:246-253
109. Okabe, M., Lies, D., Kanamasa, S. & Park, E.Y. 2009 Biotechnological production of itaconic acid and its biosynthesis in *Aspergillus terreus*. *Appl. Microbiol. Biotechnol.* **84**: 597-606
110. Pantazopoulou, A. & Peñalva, M.A. 2009 Organization and dynamics of the *Aspergillus nidulans* Golgi during apical extension and mitosis. *Mol. Biol. Cell* **20**: 4335-4347
111. Peña-Montes, C., Lange, S., Flores, I., Castro-Ochoa, D., Schmid, R., Cruz-García, F. & Farrés, A. 2009 Molecular characterization of StcI esterase from *Aspergillus nidulans*. *Appl. Microbiol. Biotechnol.* **84**: 917-926
112. Pinchai, N., Juvvadi, P.R., Fortwendel, J.R., Perfect, B.Z., Rogg, L.E., Asfaw, Y.G. & Steinbach, W.J. 2010 The *Aspergillus fumigatus* P-type golgi apparatus Ca²⁺/Mn²⁺ ATPase PmrA is involved in cation homeostasis and cell wall integrity but is not essential for pathogenesis. *Eukaryot. Cell* **9**: 472-476
113. Pisanelli, I., Kujawa, M., Gschnitzer, D., Spadiut, O., Seiboth, B., Peterbauer, C. 2010 Heterologous expression of an *Agaricus meleagris* pyranose dehydrogenase-encoding gene in *Aspergillus* spp. and characterization of the recombinant enzyme. *Appl. Microbiol. Biotechnol.* **86**: 599-606
114. Plumridge, A., Melin, P., Stratford, M., Novodvorska, M., Shunburne, L., Dyer, P.S., Roubos, J.A., Menke, H., Stark, J., Stam, H. & Archer, D.B. 2010 The decarboxylation of the weak-acid preservative, sorbic acid, is encoded by linked genes in *Aspergillus* spp. *Fungal Genet. Biol.* **47**: 683-692
115. Pócsi, I., Leiter, E., Kwon, N.-J., Shin, K.-S., Kwon, G.-S., Pusztahelyi, T., Emri, T., Abuknesha, R.A., Price, R.G. & Yu, J.-H. 2009 Asexual sporulation signalling regulates autolysis of *Aspergillus nidulans* via modulating the chitinase ChiB production. *J. Appl. Microbiol.* **107**: 514-523
116. Puttikamonkul, S., Willger, S.D., Grahl, N., Perfect, J.R., Movahed, N., Bothner, B., Park, S., Paderu, P., Perlin, D.S. & Cramer, R.A.Jr. 2010 Trehalose 6-phosphate phosphatase is required for cell wall integrity and fungal virulence but not trehalose biosynthesis in the human fungal pathogen *Aspergillus fumigatus*. *Mol. Microbiol.* **77**: 891-911
117. Reiser, K., Davis, M.A. & Hynes, M.J. 2010 *Aspergillus nidulans* contains six possible fatty acyl-CoA synthetases with FaaB being the major synthetase for fatty acid degradation. *Arch. Microbiol.* **192**:373-382
118. Reiser, K., Davis, M.A. & Hynes, M.J. 2010 AoxA is a major peroxisomal long chain fatty acyl-CoA oxidase required for β-oxidation in *A. nidulans*. *Curr. Genet.* **56**:139-150
119. Reverberi, M., Punelli, F., Scarpari, M., Camera, E., Zjalic, S., Ricelli, A., Fanelli, C. & Fabbri, A.A. 2010 Lipoperoxidation affects ochratoxin A biosynthesis in *Aspergillus ochraceus* and its interaction with wheat seeds. *Appl. Microbiol. Biotechnol.* **85**:1935-1946
120. Reyes-Dominguez, Y., Bok, J.W., Berger, H., Schwab, E.K., Basheer, A., Gallmetzer, A., Scazzocchio, C., Keller, N. & Strauss, J. 2010 Heterochromatic marks are associated with the repression of secondary metabolism clusters in *Aspergillus nidulans*. *Mol. Microbiol.* **76**: 1376-1386
121. Robellet, X., Oestreicher, N., Guitton, A. & Vélot, C. 2010 gene silencing of transgenes inserted in the *Aspergillus nidulans* *alcM* and/or *alcS* loci. *Curr. Genet.* **56**: 341-348
122. Rodríguez-Urra, A.B., Jimenez, C., Dueñas, M. & Ugalde, U. 2009 Bicarbonate gradients modulate growth and colony morphology in *Aspergillus nidulans*. *FEMS Microbiol. Lett.* **300**: 216-221

- 123. Roth, A.H.F.J. & Dersch, P.** 2010 A novel expression system for intracellular production and purification of recombinant affinity-tagged proteins in *Aspergillus niger*. *Appl. Microbiol. Biotechnol.* **86**:659-570
- 124. Roumelioti, K., Vangelatos, I. & Sophianopoulou, V.** 2010 A cryptic role of a glycolytic-gluconeogenic enzyme (aldolase) in amino acid transporter turnover in *Aspergillus nidulans*. *Fungal Genet. Biol.* **47**:254-267
- 125. Salazar, M., Vongsangnak, W., Panagiotou, G., Andersen, M.R. & Nielsen, J.** 2009 Uncovering transcriptional regulation of glycerol metabolism in *Aspergilli* through genome-wide gene expression data analysis. *Mol. Gen. Genomics: MGG* **282**:571-586
- 126. Sanchez, J.F., Chiang, Y.-M., Szewczyk, E., Davidson, A.D., Ahuja, M., Oakley, E.C., Bok, J.W., Keller, N., Oakley, B.R. & Wang, C.C.C.** 2010 Molecular genetic analysis of the orsellinic acid/F9775 gene cluster of *Aspergillus nidulans*. *Mol. Biosyst.* **6**: 587-593
- 127. Santhiya, D., Burghard, Z., Greiner, C., Jeurgens, L.P.H., Subkowski, T. & Bill, J.** 2010 Bioinspired deposition of TiO₂ thin films induced by hydrophobins. *Langmuir* **26**: 6494-6502
- 128. Scherlach, K., Schuemann, J., Dahse, H.-M. & Hertweck, C.** 2010 Aspernidine A and B, prenylated isoindolinone alkaloids from the model fungus *Aspergillus nidulans*. *J. Antibiot.* **63**: 375-377
- 129. Schmoll, M., Seibel, C., Kotlowski, C., Vendt, F.W.G., Liebmann, B. & Kubicek, C.P.** 2010 Recombinant production of an *Aspergillus nidulans* class I hydrophobin (DewA) in *Hypochrea jecorina* (*Trichoderma reesei*) is promoter-dependent. *Appl. Microbiol. Biotechnol.* **88**: 95-103
- 130. Schneider, T., Gerrits, B., Gassmann, R., Schmid, E., Gessner, M.O., Richter, A., Battin, T., Eberl, L. & Riedel, K.** 2010 Proteome analysis of fungal and bacterial involvement in leaf litter decomposition. *Proteomics* **10**: 1819-1830
- 131. Schöbel, F., Jacobsen, I.D. & Brock, M.** 2010 Evaluation of lysine biosynthesis as an antifungal target: biochemical characterization of *Aspergillus fumigatus* homocitrate synthase and virulence studies. *Eukaryot. Cell* **9**: 878-893
- 132. Schoustra, S.E., Bataillon, T., Gifford, D.R. & Kassen, R.** 2009 The properties of adaptive walks in evolving populations of fungus. *Plos Biol.* **7**: e1000250.
- 133. Shaaban, M., Palmer, J.M., El-Naggar, W.A., El-Sokkary, M.A., Habib, E.-S.E. & Keller, N.P.** 2010 Involvement of transposon-like elements in penicillin gene cluster regulation. *Fungal Genet. Biol.* **47**:423-432
- 134. Shimizu, M., Fujii, T., Masuo, S. & Takaya, N.** 2010 Mechanism of *de novo* branched-chain amino acid synthesis as an alternative electron sink in hypoxic *Aspergillus nidulans* cells. *Appl. Env. Microbiol.* **76**: 1507-1515
- 135. Shin, K.-S., Kwon, N.-J. & Yu, J.-H.** 2009 Gbg-mediated growth and developmental control in *Aspergillus fumigatus*. *Curr. Genet.* **6**: 631-641
- 136. Si, H., Justa-Schuch, D., Seiler, S. & Harris, S.D.** 2010 Regulation of septum formation by the Bud3-Rho4 GTPase module in *Aspergillus nidulans*. *Genetics* **185**:165-176
- 137. Siewers, V., Chen, X., Huang, L., Zhang, J. & Nielsen, J.** 2009 Heterologous production of non-ribosomal peptide LLD-ACV in *Saccharomyces cerevisiae*. *Metabol. Eng.* **11**: 391-397
- 138. Silva, E.M., Freitas, J.S., Gras, D.E., Squina, F.M., Leal, J., Silveira, H.C.S., Martinez-Rossi, N.M. & Rossi, A.** 2008 Identification of genes differentially expressed in a strain of the mold *Aspergillus nidulans* carrying a loss-of-function mutation in the *pala* gene. *Can. J. Microbiol.* **54**:803-311
- 139. Singhal, A. & Thakur, I.S.** 2009 Decolourization and detoxification of pulp and paper mill effluent by *Emericella nidulans* var. *nidulans*. *J. Hazardous Materials* **171**: 619-625
- 140. Skouri-Gargouri, H., Jellouli-Chaker, N. & Gargouri, A.** 2010 factors affecting production and stability of the AcAFP antifungal peptide secreted by *Aspergillus clavatus*. *Appl. Microbiol. Biotechnol.* **86**: 535-543
- 141. Sorentino, F., Roy, I. & Keshavarz, T.** 2010 Impact of linoleic acid supplementation on lovastatin production in *Aspergillus terreus* cultures. *Appl. Microbiol. Biotechnol.* **88**: 65-73
- 142. Szewczyk, E. & Krappmann, S.** 2010 Conserved regulators of mating are essential for *Aspergillus fumigatus* cleistothecium formation. *Eukaryot. Cell* **9**: 774-783
- 143. Tabuchi, S., Ito, J., Adachi, T., Ishida, H. & Hata, Y.** 2009 Display of both N- and C-terminal target fusion proteins on the *Aspergillus oryzae* cell surface using a chitin-binding module. *Appl. Microbiol. Biotechnol.* **87**: 1783-1789
- 144. Tada, S., Matsushita-Morita, M., Suzuki, S., Kusumoto, K.-I. & Kashiwagi, Y.** 2009 Characterization of a neutral ceramidase orthologue from *Aspergillus oryzae*. *FEMS Microbiol. Lett.* **298**: 157-165
- 145. Takaya, K., Higuchi, Y., Kitamoto, K. & Arioka, M.** 2009 A cytosolic phospholipase A₂-like protein in the filamentous fungus *Aspergillus oryzae* localizes to the intramembrane space of the mitochondria. *FEMS Lett.* **301**:

201-209

- 146. Tao, L., Gao, N., Chen, S. & Yu, J.-H.** 2010 The *choC* gene encoding a putative phospholipid methyltransferase is essential for growth and development in *Aspergillus nidulans*. *Curr. Genet.* **56**: 283-296
- 147. Teves, F., Lamas-Maceiras, M., Garcia-Estrada, C., Casqueiro, J., Naranjo, L., Ullán, R.V., Scervino, J.-M., Wu, X., Velasco-Conde, T. & Martín, J.F.** 2009 Transcriptional upregulation of four genes of the lysine biosynthetic pathway by homocitrate accumulation in *Penicillium chrysogenum*: homocitrate as a sensor of lysine-pathway distress. *Microbiol.* **155**: 3881-3892
- 148. Tevz, G., Bencina, M. & Legisa, M.** 2009 Enhancing itaconic acid production by *Aspergillus terreus*. *Appl. Microbiol. Biotechnol.* **87**: 1657-1664
- 149. Thön, M., Al Abdallah, Q., Hortschansky, P., Scharf, D.H., Eisendle, M., Haas, H. & Brakhage, A.A.** 2010 The CCAAT-binding complex coordinates the oxidative stress response in eukaryotes. *Nucleic Acids Res.* **38**: 1098-1113
- 150. Tisch, D. & Schmoll, M.** 2009 light regulation of metabolic pathways in fungi. *Appl. Microbiol. Biotechnol.* **85**: 1259-1277
- 151. Tribus, M., Bauer, I., Galehr, J., Rieser, G., Trojer, P., Brosch, G., Loidl, P., Haas, H., Graessle, S.** 2010 A novel motif in fungal class 1 histone deacetylases is essential for growth and development of *Aspergillus*. *Mol. Biol. Cell* **21**: 345-353
- 152. van den Berg, R.A., Braaksma, M., van der Veen, D., van der Werf, M.J., Punt, P.J., van der Oost, J. & de Graaf, L.H.** 2010 Identification of modules in *Aspergillus niger* by gene co-expression network analysis. *Fungal Genet. Biol.* **47**: 539-550
- 153. Vangelatos, I., Roumelioti, K., Gournas, C., Suarez, T., Scazzocchio, C. & Sophianopoulou, V.** 2010 Eisosome organization in the filamentous ascomycete *Aspergillus nidulans*. *Eukaryot. Cell* **9**: 1441-1454
- 154. Vangelatos, I., Vlachakis, D., Sophianopoulou, V. & Diallinas, G.** 2009 Modelling and mutational evidence identify the substrate binding site and functional elements in APC amino acid transporters. *Mol. Memb. Biol.* **26**: 356-370
- 155. Vishwanatha, K.S, Rao, A.G.A. & Singh, S.A.** 2010 Production and characterization of a milk-clotting enzyme from *Aspergillus oryzae* MTCC 5341. *Appl. Microbiol. Biotechnol.* **85**: 1849-1859
- 156. Vongsangnak, W., Salazar, M., Hansen, K. & Nielsen, J.** 2009 Genome-wide analysis of maltose utilization and regulation in aspergilli. *Microbiol.* **155**: 3893-3902
- 157. Walker, L.A., Gow, N.A.R. & Munro, C.A.** 2009 Fungal echinocandin resistance. *Fungal Genet. Biol.* **47**: 117-126
- 158. Wang, C.-L., Shim, W.-B. & Shaw, B.D.** 2010 *Aspergillus nidulans* striatin (StrA) mediates sexual development and localizes to the endoplasmic reticulum. *Fungal Genet. Biol.* **47**: 789-799
- 159. Wang, Y., Song, J.-Z., Yang, Q., Liu, Z.-H., Huang, X.-M. & Chen, Y.** 2010 Cloning of a heat-stable chitin deacetylase gene from *Aspergillus nidulans* and its functional expression in *Escherichia coli*. *Appl. Biochem. Biotechnol.* **162**: 843-854
- 160. Wilson, R.A. & Talbot, N.J.** 2009 Fungal physiology - a future perspective. *Microbiol.* **155**: 3810-3815
- 161. Wohlleben, W., Subkowski, T., Bollschweiler, C., von Vacano, B., Liu, Y., Schrepp, W. & Baus, U.** 2010 Recombinantly produced hydrophobins from fungal analogues as highly surface-active performance proteins. *Eur. Biophys. J.* **39**: 457-468
- 162. Wölfl, S., Trienens, M. & Rohlfs, M.** 2009 Experimental evolution of resistance against a competing fungus in *Drosophila melanogaster*. *Oecologia* **161**: 781-790
- 163. Wong, K.H., Hynes, M.J., Todd, R.B. & Davis, M.A.** 2009 Deletion and overexpression of the *Aspergillus nidulans* GATA factor AreB reveals unexpected pleiotropy. *Microbiol.* **155**: 3868-3880
- 164. Wrobel, M., Lewandowska, I., Bronowicka-Adamska, P. & Paszewski, A.** 2009 The level of sulfane sulfur in the fungus *Aspergillus nidulans* wild type and mutant strains. *Amino Acids.* **37**: 565-571
- 165. Xiong, Y. & Oakley, B.R.** 2009 In vivo analysis of the functions of g-tubulin-complex proteins. *J. Cell Sci.* **122**: 4218-4227
- 166. Yoon, J., Aishan, T., Maruyama, J.-i. & Kitamoto, K.** 2010 Enhanced production and secretion of heterologous proteins by the filamentous fungus *Aspergillus oryzae* via disruption of vacuolar protein sorting gene *Aovps10*. *Appl. Env. Microbiol.* **76**: 5718-5727
- 167. Zekert, N., Veith, D. & Fischer, R.** 2010 Interaction of the *Aspergillus nidulans* microtubule-organizing center (MTOC) component ApsB with gamma-tubulin and evidence for a role of a subclass of peroxisomes in the

formation of septal MTOCs. Eukaryot. Cell **9**: 795-805

- 168. Zhang, J., Li, S., Musa, S., Zhou, H. & Xiang, X.** 2009 Dynein light intermediate chain in *Aspergillus nidulans* is essential for the interaction between heavy and intermediate chains. J. Biol. Chem. **284**:34760-34768
- 169. Zhang, Z. & Townsend, J.P.** 2009 The filamentous fungal gene expression database (FFGED). Fungal Genet. Biol. **47**: 199-204
- 170. Zhao, X., Hume, S.L., Johnson, C., Thompson, P., Huang, J., Gray, J., Lamb, H.K. & Hawkins, A.R.** 2010 The transcription repressor NmrA is subject to proteolysis by three *Aspergillus nidulans* proteases Protein Sci. **19**: 1405-1419

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gaaA 93
LAD 72
mpdA 1
mtdA 1
ohbA1 114
padA1 114
pfkA 148
phyA 100
sdrA 114
xylA,B 2
xyn6 2

xynB 2

A. ochraceus

loxA 119
pks 119

A. oryzae

actB 88
asahA 144
gene 215 68
malP,T,R 58
ocpA,B cpI 95
plA 145
plaA,B 98
ptrA 57
tglA 143
vps10 166
xlnR 106

A. terreus

lov B,F 141

Agaricus meleagris

pdh1 113

Fusarium graminearum

MET13 45

Penicillium chrysogenum

pcbAB 137
ku70 63
laeA 62
lys3 147
velA

P. marneffei

rfxA 19

P. paxilli

paxP,Q 105

Saccharomyces cerevisiae

adr1 125

Fungi

A. clavatus
A. fumigatus 44
A. giganteus 7
A. niger 32 34 43 46 74 87 123 125 152
A. ochraceus 4
A. oryzae 43 69 125 155
A. terreus 56 109 148
Aspergillus section Flavi 51
Hypochrea jecorina 129
Penicillium chrysogenum 14
Penicillium spp. 85