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## Aspergillus Bibliography

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## 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.

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- 1. Akao, T., Gomi, K., Goto, K., Okazake, N. & Akiti, O.** 2002 Subtractive cloning of cDNA from *Aspergillus oryzae* differentially regulated between solid-state culture and liquid (submerged) culture. *Curr. Genet.* **41**:275-281
- 2. Arst, H.N.Jr., Nicholas, H.B.Jr. & Caddick, M.X.** 2003 Re: Watts et al. *Proteins* 2002;48:161-168. *Proteins* **52**:125-128
- 3. Arst, H.N. & Peñalva, M.A.** 2003 pH regulation in *Aspergillus* and parallels with higher eukaryotic regulatory systems. *Trends Gen.* **19**:224-231
- 4. Baidyaroy, D., Brosch, G., Graessle, S., Trojer, P. & Walton, J.D.** 2002 Characterization of inhibitor-resistant histone deacetylase activity in plant-pathogenic fungi. *Eukaryotic Cell*. **1**:538-547
- 5. Baptista, F. & Castro-Prado, M.A.A.** 2001 A novel UV-sensitive mutation induces nucleotide excision repair phenotype and shows epistatic relationships with uvsF and uvsB groups in *Aspergillus nidulans*. *J. Microbiol.* **39**:102-108
- 6. Baptista, F. & de Castro-Prado, M.A.A.** 2002 *uvsZ1* mutation shows epistatic relations with *uvsD153* and *uvsJ1* mutations without any involvement with checkpoint control in *Aspergillus nidulans*. *Biol. Res.* **35**:441-446
- 7. Bennett, J.W. & Arnold, J.** 2001 Genomics for fungi, in *The Mycota: A comprehensive treatise on fungi as experimental systems for basic and applied research*. Biology of the fungal cell, eds R.J. Howard and N.A.R. Gow, Springer-Verlag GmbH & Co. Berlin, pp 267-297
- 8. Boase, N.A., Lockington, R.A., Adams, J.R.J., Rodbourn, L. & Kelly, J.M.** 2003 Molecular characterization and analysis of the *acrB* gene of *Aspergillus nidulans*: a gene identified by genetic interaction as a component of the regulatory network that includes the CreB deubiquitination enzyme. *Genetics* **164**:95-104

- 9. Bruggeman, J., Debets, A.J.M., Wijngaarden, P.J., deVisser, J.A.G.M. & Hoekstra, R.F.** 2003 Sex slows down the accumulation of deleterious mutations in the homothallic fungus *Aspergillus nidulans*. *Genetics* **164**:475-485
- 10. Busch, S., Bode, H.B., Brakhage, A.A. & Braus, G.H.** 2003 Impact of the cross-pathway control of the regulation of lysine and penicillin biosynthesis in *Aspergillus nidulans*. *Curr. Genet.* **42**:209-219
- 11. Busch, S., Eckert, S.E., Krappmann, S. & Braus, G.H.** 2003 The COP9 signalosome is an essential regulator of development in the filamentous fungus *Aspergillus nidulans*. *Mol. Microbiol.* **49**:717-730
- 12. Buurman, E.T., Jiang, W., McCoy, M., Averett, D.R., Thompson, C.M. & Wobbe, C.R.** 2002 Validation of Cdc68p as a novel antifungal target. *Arch. Microbiol.* **178**:428-436
- 13. Calvo, A.M., Wilson, R.A., Bok, J.W. & Keller, N.P.** 2002 Relationship between secondary metabolism and fungal development. *Microbiol. Mol. Biol. Rev.* **66**:447-459
- 14. Caracuel, Z., Roncero, M.I.G., Espeso, E.A., González-Verdejo, C.I., Garcia-Maceira, F.I. & Di Pietro, A.** 2003 The pH signalling transcription factor PacC controls virulence in the plant pathogen *Fusarium oxysporum*. *Mol. Microbiol.* **48**:765-779
- 15. Caruso, M.L., Litzka, O., Martic, G., Lottspeich, F. & Brakhage, A.A.** 2002 Novel basic-region helix-loop-helix transcription factor (AnBH1) of *Aspergillus nidulans* counteracts the CCAAT-binding complex AnCF in the promoter of a penicillin biosynthesis gene. *J. Mol. Biol.* **323**:425-439
- 16. Cary J.W., Dyer, J.M., Ehrlich, K.C., Wright, M.S., Liang, S.-H. & Linz, J.E.** 2002 Molecular and functional characterization of a second copy of the aflatoxin regulatory gene, *aflR-2*, from *Aspergillus parasiticus*. *Biochim. Biophys. Acta Gene Struct. Express.* **1576**:316-323
- 17. Chant, A., Provatopoulos, X., Manfield, I.W. & Kneale, G.G.** 2003 Structural and functional characterisation of the DNA binding domain of the *Aspergillus nidulans* gene regulatory protein AreA. *Biochim. Biophys. Acta* **1648**:84-89
- 18. Chatterjee, P., Brady, K.L., Solem, A., Ho, Y. & Caprara, M.G.** 2003 Functionally distinct nucleic acid binding sites for a group I intron encoded RNA maturase/DNA homing endonuclease. *J. Mol. Biol.* **329**:239-251
- 19. Cheng, J., Park, T.-S., Chio, L.-C., Fischl, A.S. & Ye, X.S.** 2003 Induction of apoptosis by sphingoid long-chain bases in *Aspergillus nidulans*, *Mol. Cell. Biol.* **23**:163-177
- 20. Chigira, Y., Abe, K., Gomi, K. & Nakajima, T.** 2002 *chsZ*, a gene for a novel class of chitin synthase from *Aspergillus oryzae*. *Curr. Genet.* **41**:261-267

- 21. Chiuchetta, S.J.R. & Castro-Prado, M.A.A.** 2002 Recombinagenic effect of cryptolepine in *uvSH<sup>+</sup>//uvSH<sup>+</sup>* and *uvSH//uvSH* diploid strains of *Aspergillus nidulans*. *Folia Microbiol.* **47**:516-520
- 22. Cronin, M.T.D., Dearden, J.C., Duffy, J.C., Edwards, R., Manga, N., Worth, A.P. & Worgan, A.D.P.** 2002 The importance of hydrophobicity and electrophilicity descriptors in mechanistically-based QSARs for toxicological endpoints. *Sar & Qsar Env. Res.* **13**:167-176
- 23. de Vries, R.P., Flitter, S.J., van de Vondervoort, P.J.I., Chareroche, M.-K., Fontaine, T., Fillinger, S., Ruijter, G.J.G., d'Enfert, C. & Visser, J.** 2003 Glycerol dehydrogenase, encoded by *gldB* is essential for osmotolerance in *Aspergillus nidulans*. *Mol. Microbiol.* **49**:131-141
- 24. DeBonis, S., Simorre, J.-P., Crevel, I., Lebeau, L., Skoufias, D.A., Blangy, A., Ebel, C., Gans, P., Cross, R., Hackney, D.D., Wade, R.H. & Kozelski, F.** 2003 Interaction of the mitotic inhibitor monastrol with human kinesin Eg5. *Biochem.* **42**:338-349
- 25. Dzikowska, A., Kacprzak, M., Tomecki, R., Koper, M., Scazzocchio, C. & Weglenski, P.** 2003 Specific induction and carbon/nitrogen repression of arginine catabolism gene of *Aspergillus nidulans* - functional in vivo analysis of the *otaA* promoter. *Fungal Genet. Biol.* **38**:175-186
- 26. Ehrlich, K.C., Montalbano, B.G. & Cotty, P.J.** 2003 Sequence comparison of *aflR* from different *Aspergillus* species provides evidence for variability in regulation of aflatoxin production. *Fungal Genet. Biol.* **38**:63-74
- 27. Eisendle, M., Oberegger, H., Zadra, I. & Haas, H.** 2003 The siderophore system is essential for viability of *Aspergillus nidulans*: functional analysis of two genes encoding L-ornithine N<sup>5</sup>-monooxygenase (*sidA*) and a non-ribosomal peptide synthetase (*sidC*). *Mol. Microbiol.* **49**:359-375
- 28. Espinel-Ingroff, A., Chaturvedi, V., Fothergill, A. & Rinaldi, M.G.** 2002 Optimal testing conditions for determining MICs and minimum fungicidal concentrations of new and established antifungal agents for uncommon molds: NCCLS collaborative study. *J. Clin. Microbiol.* **40**:3776-3781
- 29. Fagundes, M.R.Z.K., Fernandes, L., Savoldi, M., Harris, S.D., Goldman, M.H.S. & Goldman, G.H.** 2003 Identification of a topoisomerase I mutant, *scsA1*, as an extragenic suppressor of a mutation in *scaA<sup>VBS1</sup>*, the apparent homolog of juman nebrin in *Aspergillus nidulans*. *Genetics* **164**:935-945
- 30. Fekete, E., Karaffa, L., Sándor, E., Seiboth, B., Biró, S., Szentirmai, A. & Kubicek, C.P.** 2002 Regulation of formation of the intracellular β-galactosidase activity of *Aspergillus nidulans*. *Arch. Microbiol.* **179**:7-14
- 31. Fernández, F.J., Cardoza, R.E., Montenegro, E., Velasco, J., Gutiérrez, S. & Martín, J.F.** 2003 The isopenicillin N acyltransferases of *Aspergillus nidulans* and *Penicillium*

*chrysogenum* differ in their ability to maintain the 40-kDa  $\alpha\beta$  heterodimer in an undissociated form. Eur. J. Biochem. **270**:1958-1968

- 32. Firon, A., Beauvais, A., Latgé, J.-P., Couvé, E., Grosjean-Cournoyer, M.-C. & d'Enfert, C.** 2002 Characterization of essential genes by parasexual genetics in the human pathogen *Aspergillus fumigatus*: impact of genomic rearrangements associated with electroporation of DNA. Genetics **161**:1077-1087
- 33. Firon, A., Villalba, F., Beffa, R. & d'Enfert, C.** 2003 Identification of essential genes in the human fungal pathogen *Aspergillus fumigatus* by transposon mutagenesis. Eukaryotic Cell **2**:247-255
- 34. Flippi, M., van de Vondervoort, P.J., Ruijter, G.J., Visser, J., Arst, H.N.Jr. & Felenbok, B.** 2003 Onset of carbon catabolite repression in *Aspergillus nidulans*. Parallel involvement of hexokinase and glucokinase in sugar signaling. J. Biol. Chem. **278**:11849-11857
- 35. Fox, H., Hickey, P.C., Fernández-Ábalos, J.M., Lunness, P., Read, N.D. & Doonan, J.H.** 2002 Dynamic distribution of BIMG<sup>pp1</sup> in living hyphae of *Aspergillus* indicates a novel role in septum formation. Mol. Microbiol. **45**:1219-1230
- 36. Furukawa, K., Katsuno, Y., Urao, T., Yabe, T., Yamada-Okabe, T., Yamada-Okabe, H., Yamagata, Y., Abe, K. & Nakajima T.** 2002 Isolation and functional analysis of a gene, *tcsB*, encoding a transmembrane hybrid-type histidine kinase from *Aspergillus nidulans*. Appl. Env. Microbiol. **68**:5304-5310
- 37. Fry, A.M.** 2002 The Nek2 protein kinase: a novel regulator of centrosome structure. Oncogene. **21**:6184-6194
- 38. Geese, W.J., Kwon, Y.K., Wen, X. & Waring, R.B.** 2003 *In vitro* analysis of the relationship between endonuclease and maturase activities in the bi-functional group I intron-encoded protein, I-AniI. Eur. J. Biochem. **270**:1543-1554
- 39. Glass, N.L. & Kaneko, I.** 2003 Fatal attraction: nonself recognition and heterokaryon incompatibility in filamentous fungi. Eukaryotic Cell **2**:1-8
- 40. Greene, A.V., Keller, N., Haas, H. & Bell-Pedersen, D.** 2003 A circadian oscillator in *Aspergillus* spp. regulates daily development and gene expression. Eukaryotic Cell **2**:231-237
- 41. Haas, H., Schoeser, M., Lesuisse, E., Ernst, J.F., Parson, W., Abt, B., Winkelmann, G. & Oberegger, H.** 2003 Characterization of the *Aspergillus nidulans* transporters for the siderophores enterobactin and triacetyl fusarinine C. Biochem. J. **371**:505-513
- 42. Hamari, S., Tóth, B., Beer, Z., Gácsér, A., Kucséra, J., Pfeiffer, I., Juhász, Á. & Kevei, F.** 2003 Interpretation of intraspecific variability in mtDNAs of *Aspergillus niger* strains and rearrangement of their mtDNAs following mitochondrial transmissions. FEMS Microbiol. Lett. **221**:63-71

- 43. Hong, S., Horiuchi, H. & Ohta, A.** 2003 Molecular cloning of a phospholipase D gene from *Aspergillus nidulans* and characterization of its deletion mutants. FEMS Microbiol. Lett. **224**:231-237
- 44. Horré, R., Schumacher, G., Marklein, G., Krömer, B., Wardelmann, E., Gilges, S., de Hoog, G.S., Wahl, G. & Schaaf, K.P.** 2002 Case Report. Maxillary sinus infection due to *Emericella nidulans*. Mycoses. **45**:402-405
- 45. Ichinomiya, M., Horiuchi, H. & Ohta, A.** 2002 Different functions of the class I and class II chitin synthase genes, *chsC* and *chsA*, are revealed by repression of *chsB* expression in *Aspergillus nidulans*. Curr. Genet. **42**:51-58
- 46. Ivanov, I.P., Gesteland, R.F. & Atkins, J.F.** 2000 Antizyme expression: a subversion of triplet decoding, which is remarkably conserved in evolution, is a sensor for an autoregulatory circuit. Nucleic Acids Res. **28**: 3185-3196
- 47. Jeong, H.-Y., Kim, H., Han, D.-M., Jahng, K.-Y. & Chae, K.-S.** 2003 Expression of the *mnpA* gene that encodes the mannoprotein of *Aspergillus nidulans* is dependent on *fadA* and *flbA* as well as *veA*. Fungal Genet. Biol. **38**:228-236
- 48. Jeong, H.-Y., Song, M.H., Back, J.H., Han, D.-M., Wu, X., Monnier, V., Jahng, K.-Y. & Chae, K.S.** 2002 The *veA* gene is necessary for the inducible expression by fructosyl amines of the *Aspergillus nidulans* *faoA* gene encoding fructosyl amino acid oxidase (amadoriase, EC 1.5.3). Arch. Microbiol. **178**:344-350
- 49. Jin, Y., Bok, J.W., Guzman-de-Peña, D. & Keller, N.P.** 2002 Requirement of spermidine for developmental transitions in *Aspergillus nidulans*. Mol. Microbiol. **46**:801-812
- 50. Junker, B.H., Chu, C., Sonnewald, U., Willmitzer, L. & Fernie, A.R.** 2003 In plants the *alc* gene expression system responds more rapidly following induction with acetaldehyde than with ethanol. FEBS Lett. **535**:136-140
- 51. Kamauchi, S., Mitsui, K., Ujike, S., Haga, M., Nakamura, N., Inoue, H., Sakajo, S., Ueda, M., Tanaka, A., Kanazawa, H.** 2002 Structurally and functionally conserved domains in the diverse hydrophilic carboxy-terminal halves of various yeast and fungal Na<sup>+</sup>/H<sup>+</sup> antiporters (Nha1p). J. Biochem. **131**:821-831
- 52. Karaffa, L., Fekete, E., Sándor, E., Sepsi, A., Seiboth, B., Szentirmai, A. & Kubicek, C.P.** 2002 Carbon catabolite repression in the regulation of β-galactosidase activity in *Aspergillus nidulans*. Acta Microbiol. Immunol. Hung. **49**:261-265
- 53. Kato, N., Murakoshi, Y., Kato, M., Kobayashi, T. & Tsukagoshi, N.** 2002 Isomaltose formed by α-glucosidases triggers amylase induction in *Aspergillus nidulans*. Curr. Genet. **42**:43-50

- 54. Kawasaki, L., Sánchez, O., Shiozaki, K. & Aguirre, J.** 2002 SakA MAP kinase is involved in stress signal transduction, sexual development and spore viability in *Aspergillus nidulans*. Mol. Microbiol. **45**:1153-1163
- 55. Keszenman-Pereyra, D., Lawrence, S., Twieg, M.-E., Price, J. & Turner, G.** 2003 The npgA/cwfA gene encodes a putative 4'-phosphopantetheinyl transferase which is essential for penicillin biosynthesis in *Aspergillus nidulans*. Curr. Gen. **43**:186-190
- 56. Kim, C.-F., Lee, S.K.Y., Price, J., Jack, R.W., Turner, G. & Kong, R.Y.C.** 2003 Cloning and expression analysis of the *pcbAB-pcbC* β-lactam genes in the marine fungus *Kallichromatethys*. Appl. Env. Microbiol. **69**:1308-1314
- 57. Kim, H.-S., Han, K.-Y., Kim, K.-J., Han, D.-M., Jahng, K.-Y. & Chae, K.-S.** 2002 The *veA* gene activates sexual development in *Aspergillus nidulans*. Fungal Genet. Biol. **37**:72-80
- 58. Kim, S., Matsuo, I., Ajisaka, K., Nakajima, H. & Kitamoto, K.** 2002 Cloning and characterization of the *nagA* gene that encodes β-N-acetylglucosaminidase from *Aspergillus nidulans* and its expression in *Aspergillus oryzae*. Biosci. Biotechnol. Biochem. **66**:2168-2175
- 59. Kontoyiannis, D.P., Lewis, R.E., May, G.S., Osherov, N. & Rinaldi, M.G.** 2002 *Aspergillus nidulans* is frequently resistant to amphotericin B. Mycoses **45**:406-407
- 60. Kosman, D.J.** 2003 Molecular mechanics of iron uptake in fungi. Mol. Microbiol. **47**:1185-1197
- 61. Krappmann, S. & Braus, G.H.** 2003 Deletion of *Aspergillus nidulans aroC* using a novel blaster module that combines ET cloning and marker rescue. Mol. Gen. Genomics **268**:675-683
- 62. Langfelder, K., Gattung, S. & Brakhage, A.A.** 2002 A novel method used to delete a new *Aspergillus fumigatus* ABC transporter-encoding gene. Curr. Genet. **41**:268-274
- 63. Langfelder, K., Streibel, M., Jahn, B., Haase, G. & Brakhage, A.A.** 2003 Biosynthesis of fungal melanins and their importance for human pathogenic fungi. Fungal Genet. Biol. **38**:143-158
- 64. Larrondo, L.F., Avila, M., Salas, L., Cullen, D. & Vicuña, R.** 2003 Heterologous expression of laccase cDNA from *Ceriporiopsis subvermispora* yields copper-activated apoprotein and complex isoform patterns. Microbiol. **149**:1177-1182
- 65. Lee, I.H. & Plamann, M.** 2001 Microtubules and molecular motors. In The Mycota: A comprehensive treatise on fungi as experimental systems for basic and applied research. Biology of the fungal cell, ed. R.J. Howard & N.A.R. Gow, Springer-Verlag GmbH & Co. Berlin 225-241
- 66. Lenouvel, F., van de Vondervoort, P.J.I. & Visser, J.** 2002 Disruption of the *Aspergillus niger argB* gene: a tool for transformation. Curr. Genet. **41**:425-431

- 67. Levery, S.B., Momany, M., Lindsey, R., Toledo, M.S., Shayman, J.A., Fuller, M., Brooks, K., Doong, R.L., Straus, A.H. & Takahashi, H.K.** 2002 Disruption of the glucosylceramide biosynthetic pathway in *Aspergillus nidulans* and *Aspergillus fumigatus* by inhibitors of UDP-Glc:ceramide glucosyltransferase strongly affects spore germination, cell cycle, and hyphal growth. *FEBS Lett.* **525**:59-64, + Erratum *FEBS Lett.* **526**:151.
- 68. Liebmann, B., Gattung, S., Jahn, B. & Brakhage, A.A.** 2003 cAMP signaling in *Aspergillus fumigatus* is involved in the regulation of the virulence gene *pksP* and in defence against killing by macrophages. *Mol. Gen. Genomics* **269**:420-435
- 69. Liu, B., Xiang, X. & Lee, Y.-R.J.** 2003 The requirement of the LC8 dynein light chain for nuclear migration and septum positioning is temperature dependent in *Aspergillus nidulans*. *Mol. Microbiol.* **47**:291-301
- 70. Lockington, R.A., Rodbourn, L., Barnett, S., Carter, C.J. & Kelly, J.M.** 2002 Regulation by carbon and nitrogen sources of a family of cellulases in *Aspergillus nidulans*. *Fungal Genet. Biol.* **37**:190-196
- 71. Magnusson, J., Ström, K., Roos, S., Sjögren, J. & Schnürer, J.** 2003 Broad and complex antifungal activity among environmental isolates of lactic acid bacteria. *FEMS Microbiol. Lett.* **219**:129-135
- 72. Melin, P., Schnürer, J. & Wagner, E.G.H.** 2002 Proteome analysis of *Aspergillus nidulans* reveals proteins associated with the response to the antibiotic concanamycin A, produced by *Streptomyces* species. *Mol. Genet. Genom.* **267**:695-702
- 73. Mellado, E., Dubreucq, G., Mol, P., Sarfati, J., Paris, S., Diaquin, M., Holden, D.W., Rodriguez-Tudela, J.L. & Latgé, J.P.** 2003 Cell wall biosynthesis in a double chitin synthase mutant (*chsG*<sup>-</sup>/*chsE*<sup>-</sup>) of *Aspergillus fumigatus*. *Fungal Genet. Biol.* **38**:98-109
- 74. Meyer, V. & Stahl, U.** 2002 new insights into the regulation of the afp gene encoding the antifungal protein of *Aspergillus giganteus*. *Curr. Genet.* **42**:36-42
- 75. Mikkelsen, L., Sarrocco, S., Lübeck, M. & Jensen, D.F.** 2003 Expression of the red fluorescent protein DsRed-Express in filamentous ascomycete fungi. *FEMS Microbiol. Lett.* **223**:135-139
- 76. Momany, M.** 2002 Polarity in filamentous fungi: establishment, maintenance and new axes. *Current Opin. Microbiol.* **5**:580-585
- 77. Mootz, H.D., Schörgendorfer, K. & Marahiel, M.A.** 2002 Functional characterization of 4'-phosphopantetheinyl transferase genes of bacterial and fungal origin by complementation of *Saccharomyces cerevisiae lys5*. *FEMS Microbiol. Lett.* **213**:51-57
- 78. Morgan, L.W., Greene, A.V. & Bell-Pedersen, D.** 2003 Circadian and light-induced expression of luciferase in *Neurospora crassa*. *Fungal Genet. Biol.* **38**:327-332

- 79. Moye-Rowley, W.S.** 2003 Regulation of the transcriptional response to oxidative stress in fungi: similarities and differences. *Eukaryotic Cell* **2**:381-389
- 80. Müller, C., Hjort, C.M., Hansen, K. & Nielsen, J.** 2002 Altering the expression of two chitin synthase genes differentially affects the growth and morphology of *Aspergillus oryzae*. *Microbiol.* **148**:4025-4033
- 81. Natorff, R., Sienko, M., Brzywczky, J. & Paszewski, A.** 2003 The *Aspergillus nidulans* *metR* gene encodes a bZIP protein which activates transcription of sulphur metabolism genes. *Mol. Microbio l.* **49**:1081-1094
- 82. Nichols, C.E., Ren, J., Lamb, H.K., Hawkins, A.R. & Stammers, D.K.** 2003 Ligand-induced conformational changes and a mechanism for domain closure in *Aspergillus nidulans* dehydroquinate synthase. *J. Mol. Biol.* **327**:129-144
- 83. Nikolaev, I., Cochet, M.-F. & Felenbok, B.** 2003 Nuclear import of zinc binuclear cluster proteins proceeds through multiple, overlapping transport pathways. *Eukaryotic Cell* **2**:209-221
- 84. Nikolaev, I., Mathieu, M., van de Vondervoort, P.J.I., Visser, J. & Felenbok, B.** 2002 Heterologous expression of the *Aspergillus nidulans alcR-alcA* system in *Aspergillus niger*. *Fungal Genet. Biol.* **37**:89-97
- 85. Nozawa, S.R., May, G.S., Martinez-Rossi, N.M., Ferreira-Nozawa, M.S., Coutinho-Netto, J., Maccheroni, W.Jr. & Rossi, A.** 2003 Mutation in a calpain-like protease affects the posttranslational mannosylation of phosphatases in *Aspergillus nidulans*. *Fungal Genet. Biol.* **38**:220-227
- 86. Oberegger, H., Schoeser, M., Zadra, I., Schrett, M., Parson, W. & Haas, H.** 2002 Regulation of *freA*, *acoA*, *lysF*, and *cycA* expression by iron availability in *Aspergillus nidulans*. *Appl. Env. Microbiol.* **68**:5769-5772
- 87. Oberegger, H., Zadra, I., Schoeser, M., Abt, B., Parson, W. & Haas, H.** 2002 Identification of members of the *Aspergillus nidulans* SREA regulon: genes involved in siderophore biosynthesis and utilization. *Biochem. Soc. Trans.* **30**:781-783
- 88. O'Neil, J.D., Bugno, M., Stanley, M.S., Barham-Morris, J.B., Woodcock, N.A., Clement, D.J., Clipson, N.J.W., Whitehead, M.P., Fincham, D.A. & Hooley, P.** 2002 Cloning of a novel gene encoding a C<sub>2</sub>H<sub>2</sub> zinc finger protein that alleviates sensitivity to abiotic stresses in *Aspergillus nidulans*. *Mycol. Res.* **106**:491-498
- 89. Ohneda, M., Arioka, M., Nakajima, H. & Kitamoto, K.** 2002 Visualization of vacuoles in *Aspergillus oryzae* by expression of CPY-EGFP. *Fungal Genet. Biol.* **37**:29-38
- 90. Osherov, N., Mathew, J., Romans, A. & May, G.S.** 2002 Identification of conidial-enriched transcripts in *Aspergillus nidulans* using suppression subtractive hybridization. *Fungal Genet. Biol.* **37**:197-204

- 91. Osmani, A.H., Davies, J., Oakley, C.E., Oakley, B.R. & Osmani, S.A.** 2003 TINA interacts with the NIMA kinase in *Aspergillus nidulans* and negatively regulates astral microtubules during metaphase arrest. *Mol. Cell. Biol.* **14**:3169-3179
- 92. Panepinto, J.C., Oliver, B., Amlung, T.W., Askew, D.S. & Rhodes, J.C.** 2002 Expression of the *Aspergillus fumigatus* rheb homologue, *rhbA* is induced by nitrogen starvation. *Fungal Genet. Biol.* **36**:207-214
- 93. Park, B.-C., Park, Y.-H. & Park, H.-M.** 2003 Activation of *chsC* by AbaA during asexual development of *Aspergillus nidulans*. *FEMS Microbiol. Lett.* **220**:241-246
- 94. Patel, U. & Stearns, T.** 2002  $\gamma$ -Tubulin. *Curr. Biol.* **12**:R408-409
- 95. Paris, S., Debeaupuis, J.-P., Crameri, R., Carey, M., Charlès, F., Prévost, M.C., Schmitt, C., Philippe, B. & Latgé, J.-P.** 2003 Conidial hydrophobins of *Aspergillus fumigatus*. *Appl. Env. Microbiol.* **69**:1581-1588
- 96. Paris, S., Wysong, D., Debeaupuis, J.-P., Shibuya, K., Philippe, B., Diamond, R.D. & Latgé, J.-P.** 2003 Catalases of *Aspergillus fumigatus*. *Infect. Immun.* **71**:3551-3562
- 97. Pöggeler, S.** 2003 Genomic evidence for mating abilities in the asexual pathogen *Aspergillus fumigatus*. *Curr. Genet.* **42**:153-160
- 98. Rao, U., Kato, M., Kobayashi, T. & Tsukagoshi, N.** 2003 Characterization of AnRP-mediated negative regulation of the xylanase gene, *cgxA*, from *Chaetomium gracile* in *Aspergillus nidulans*. *Lett. Appl. Microbiol.* **36**:59-63
- 99. Rocha, E.M.F., Almeida, C.B. & Martinez-Rossi, N.M.** 2002 Identification of genes involved in terbinafine resistance in *Aspergillus nidulans*. *Lett. Appl. Microbiol.* **35**:228-232
- 100. Roncero, C.** 2002 The genetic complexity of chitin synthesis in fungi. *Curr. Genet.* **41**:367-378
- 101. Rose, S.H. & van Zyl, W.H.** 2002 Constitutive expression of the *Trichoderma reesei*  $\beta$ -1,4-xylanase gene (*xyn2*) and the  $\beta$ -1,4-endoglucanase gene (*egl*) in *Aspergillus niger* in molasses and defined glucose media. *Appl. Microbiol. Biotechnol.* **58**:461-468
- 102. Sagi, M., Scazzocchio, C. & Fluhr, R.** 2002 The absence of molybdenum cofactor sulfuration is the primary cause of the *flacca* phenotype in tomato plants. *Plant J.* **31**:305-317
- 103. Saloheimo, M., Valkonen, M. & Penttilä, M.** 2003 Activation mechanisms of the HAC1-mediated unfolded protein response in filamentous fungi. *Mol. Microbiol.* **47**:1149-1161
- 104. Sasangka, P., Matsuno, A., Tanaka, A., Akasaka, Y., Suyama, S., Kano, S., Miyazaki, M., Akao, T., Kato, M., Kobayashi, T. & Tsukagoshi, N.** 2002 Structural features of the glycogen branching enzyme encoding genes from aspergilli. *Microbiol. Res.* **157**:337-344

- 105. Scherer, M., Wei, H., Liese, R. & Fischer, R.** 2002 *Aspergillus nidulans* catalase-peroxidase gene (*cpeA*) is transcriptionally induced during sexual development through the transcription factor StuA. *Eukaryotic Cell* **1**:725-735
- 106. Semighini, C.P., Fagundes, M.R.Z.K., Ferreira, J.C., Pascon, R.C., Goldman, M.H.S. & Goldman, G.H.** 2003 Different roles of the Mre11 complex in DNA damage in *Aspergillus nidulans*. *Mol. Microbiol.* **48**:1693-1709
- 107. Sharma, K., Shukla, S.D., Mehta, P. & Bhatnagar, M.** 2002 Fungistatic activity of *Semecarpus anacardium* Linn. f nut extract. *Ind. J. Exptl. Biol.* **40**:314-318
- 108. Shaw, B.D. & Momany, M.** 2002 *Aspergillus nidulans* polarity mutant *swoA* is complemented by protein *O*-mannosyltransferase *pmtA*. *Fungal Genet. Biol.* **37**:263-270
- 109. Shibayama, M., Ooi, K., Johnson, R., Scott, B. & Itoh, Y.** 2002 Suppression of tandem-multimer formation during genetic transformation of the mycotoxin-producing fungus *Penicillium paxilli* by disrupting an orthologue of *Aspergillus nidulans uvsC*. *Curr. Genet.* **42**:59-65
- 110. Snoeijers, S.S., Pérez-García, A., Goosen, T. & De Wit, P.J.G.M.** 2003 Promoter analysis of the avirulence gene *Avr9* of the fungal tomato pathogen *Cladosporium fulvum* in the model fungus *Aspergillus nidulans*. *Curr. Genet.* **43**:96-102
- 111. Staudohar, M., Bencina, M., van de Vondervoort, P.J.I., Panneman, H., Legisa, M., Visser, J. & Ruijter, G.J.G.** 2002 Cyclic AMP-dependent protein kinase is involved in morphogenesis of *Aspergillus niger*. *Microbiol.* **148**:2635-2645
- 112. Sweetman, J.P., Chu, C., Qu, N., Greenland, A.J., Sonnewald, U. & Jepson I.** 2002 Ethanol vapor is an efficient inducer of the alc gene expression system in model and crop plant species. *Plant Physiol.* **129**:943-948
- 113. Swenson, K.I., Winkler, K.E. & Means, A.R.** 2003 A new identity for MLK3 as an NIMA-related, cell cycle-regulated kinase that is localized near centrosomes and influences microtubule organization. *Mol. Biol. Cell* **14**:156-172
- 114. Takeshita, N., Ohta, A. & Horiuchi, H.** 2002 *csmA*, a gene encoding a class V chitin synthase with a myosin motor-like domain of *Aspergillus nidulans*, is translated as a single polypeptide and regulated in response to osmotic conditions. *Biochem. Biophys. Res. Comm.* **298**:103-109
- 115. Taneja, K., Gupta, S. & Kuhad, R.C.** 2002 Properties and application of a partially purified alkaline xylanase from an alkalophilic fungus *Aspergillus nidulans* KK-99. *Bioresource Technol.* **85**:39-42

- 116.** Theis, T., Wedde, M., Meyer, V. & Stahl, U. 2003 The antifungal protein from *Aspergillus giganteus* causes membrane permeabilization. *Antimicrob. Agents Chemother.* **47**:588-593
- 117.** Todd, R.B., Greenhalgh, J.R., Hynes, M.J. & Andrianopoulos, A. 2003 TupA, the *Penicillium marneffei* Tup1p homologue, represses both yeast and spore development. *Mol. Microbiol.* **48**:85-94
- 118.** Trevaskis, B., Wandrey, M., Colebatch, G. & Udvardi, M.K. 2002 The soybean *GmN6L* gene encodes a late nodulin expressed in the infected zone of nitrogen-fixing nodules. *Mol. Plant-Microbe Interact.* **15**:630-636
- 119.** Trojer, P., Brandtner, W.E.M., Brosch, G., Loidl, P., Galehr, J., Linzmaier, R., Haas, H., Mair, K., Tribus, M. & Graessle, S. 2003 Histone deacetylases in fungi: novel members, new facts. *Nucleic Acids Res.* **31**:3971-3981
- 120.** Vanzela, A.P. de F.C & Said, S. 2002 Evidence for carbon source regulated protein kinase A and protein kinase C signaling in the duplication cycle, polarization and septum formation in *Aspergillus nidulans*. *Microbiol. Res.* **157**:239-247
- 121.** Varga, J. 2003 Mating type gene homologues in *Aspergillus fumigatus*. *Microbiol.* **149**:816-819
- 122.** Vautard-Mey, G. & Fèvre, M. 2003 Carbon and pH modulate the expression of the fungal glucose repressor encoding genes. *Curr. Microbiol.* **46**:146-150
- 123.** Vilela, C. & McCarthy, J.G.E. 2003 Regulation of fungal gene expression via short open reading frames in the mRNA 5' untranslated region. *Mol. Microbiol.* **49**:859-867
- 124.** Vincent, O., Rainbow, L., Tilburn, J., Arst, H.N.Jr. & Penalva, M.A. 2003 YPXL/I is a protein interaction motif recognized by *Aspergillus* PalA and its human homologue, AIP1/Alix. *Mol. Cell. Biol.* **23**:1647-1655
- 125.** Warris, A., Weemaes, C.M. & Verweij, P.E. 2002 Multidrug resistance in *Aspergillus fumigatus*. *New England J. Med.* **347**:2173-2174
- 126.** Watts, C., Si-Hoe, S.M., Lamb, H.K., Levett, L.J., Coggins, J.R. & Hawkins, A.R. 2002 Kinetic analysis of the interaction between the QutA and QutR transcription-regulating proteins. *Proteins.* **48**:161-168
- 127.** Wei, H., Requena, N. & Fischer, R. 2003 The MAPKK kinase SteC regulates conidiophore morphology and is essential for heterokaryon formation and sexual development in the homothallic fungus *Aspergillus nidulans*. *Mol. Microbiol.* **47**:1577-1588

- 128. Yabe, K., Chihaya, N., Hamamatsu, S., Sakuno, E., Hamaski, T., Nakajima, H. & Bennett, J.W.** 2003 Enzymatic conversion of averufin to hydroversicolorone and elucidation of a novel metabolic grid involving aflatoxin biosynthesis. *Appl. Env. Microbiol.* **69**:66-73
- 129. Yang, Q., Poole, S.I. & Borkovich, K.A.** 2002A G-protein  $\beta$  subunit required for sexual and vegetative development and maintenance of normal G $\alpha$  protein levels in *Neurospora crassa*. *Eukaryotic Cell* **1**:378-390
- 130. Zhang, J., Li, S., Fischer, R. & Xiang, X.** 2003 Accumulation of cytoplasmic dynein and dynactin at microtubule plus ends in *Aspergillus nidulans* is kinesin dependent. *Mol. Biol. Cell* **14**:1479-1488
- 131. Zuber, S., Hynes, M.J. & Andrianopoulos, A.** 2003 The G-protein  $\alpha$ -subunit GasC plays a major role in germination in the dimorphic fungus *Penicillium marneffei*. *Genetics* **164**:487-499
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### **Aspergillus Bibliography Keyword list**

ABC transporter 62  
Acetaldehyde induction 50 84  
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Aconitase 86  
Acriflavine resistance 8  
Adenyl cyclase 68  
Aflatoxin biosynthesis 16 26 128  
Amadoriase 48  
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 Ubiquitination 8 11  
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 UVS epistasis groups 6  
 Vacuoles 89  
 Virulence control 14  
 Xylanase 98 101 115  
 Zinc binuclear cluster 83  
 Zinc fillings 44  
 Zinc finger protein 88

## Genes

superscripts:

<sup>c</sup> Sequence comparison  
<sup>e</sup> heterologous gene expressed in Aspergillus  
<sup>h</sup> Aspergillus gene expressed elsewhere  
<sup>s</sup> Gene sequence and/or cloning

## Fungal genes

### *A. nidulans*

abaA 93  
 acnA 86<sup>s</sup>  
 acoA 86<sup>s</sup>  
 acrB 8<sup>s</sup>  
 agdA,B 53  
 alc 112  
 alcA 50 84<sup>he</sup>  
 alcR 50 83 84<sup>e</sup>  
 amcA 87  
 areA 17 25 70  
 areB 25  
 aroC 61  
 aromA 2 82  
 atrH 87  
 bimC 24  
 bimG 35  
 casA 19<sup>s</sup>  
 catB 87  
 cbhA 70<sup>s</sup>  
 cbhB 70<sup>s</sup>  
 cdc68 12  
 cetA-L 90<sup>s</sup>

cfwA 55 57  
chsA,B,C 45  
chsC 93  
cpcA 72  
cpeA 105<sup>s</sup>  
cpyA 89<sup>he</sup>  
creA 25 30 52 70 122  
creB 8 70  
creC 70  
csmA 114  
csnD 11<sup>s</sup>  
csnE 11<sup>s</sup>  
cycA 86  
eglA 70  
eglB 70<sup>s</sup>  
estA 87  
fadA 47  
faoA 48<sup>s</sup>  
flbA 47  
fluG 118<sup>c</sup>  
GBE 104  
gldA,B 23<sup>s</sup>  
glkA 34  
gpdA 40  
hacA 103<sup>s</sup>  
hdaA 119<sup>s</sup>  
hogA 54<sup>s</sup>  
hosB 119<sup>s</sup>  
hxB 102  
hxkA 34  
kinA 130  
lreA 40  
lreB 40  
lysA 10<sup>s</sup>  
lysF 86  
metR 81  
mirA 41 87  
mirB 41<sup>s</sup> 87  
mirC 41<sup>s</sup> 87  
mnpA 47<sup>s</sup>  
mreA 106<sup>s</sup>  
nagA 58<sup>s</sup>  
nha1 51  
nimA 37 91 113  
npgA 55 77  
nudF 130

nudG 69  
 nudM 130  
 otaA 25  
 pacC 74 122 124  
 palA 124 125  
 palB 85  
 pcrA 105<sup>s</sup>  
 penDE 31  
 penR 15<sup>s</sup>  
 pldA 43<sup>s</sup>  
 pmtA 108  
 qutA 126  
 qutR 2 3 126  
 rcoA 117  
 RP 98  
 sakA 54<sup>s</sup>  
 scaA 29 106  
 scsA 29  
 sfaD 129  
 sidA,B,C 87  
 sltA 88<sup>s</sup>  
 smcB 19<sup>s</sup>  
 sodA,B 87  
 spdA 49<sup>s</sup>  
 steC 127  
 stuA 105  
 swoA 108<sup>s</sup>  
 tcsB 36<sup>s</sup>  
 tebA,B 99  
 tinA 91<sup>s</sup>  
 uvsC 109  
 uvsH 21  
 uvsZ 5 6  
 veA 47 48 57<sup>s</sup>

***A. fumigatus***

abcA 62<sup>s</sup>  
 acyA 68  
 cat1,2 96  
 catA 96<sup>s</sup>  
 chsE,G 73  
 gpaA,B 68  
 MAT1-2 121  
 mtlA-1 97  
 pksP 68  
 rhbA 92<sup>s</sup>

- rodA,B 95  
*A. giganteus*  
afp 74  
pacC 74  
*A. niger*  
argB,I 66  
pkaR 111<sup>s</sup>  
*A. oryzae*  
chsB,C 80  
chsZ 20<sup>s</sup>  
csmA 80  
*A. parasiticus*  
aflR-2 16<sup>s</sup>  
*Chaetomium gracile*  
cgxA 98<sup>e</sup>  
*Cladosporium fulvum*  
Avr9 110  
*Fusarium oxysporum*  
pacC 14  
*Kallichroma tethys*  
pcbAB,C 56  
*Neurospora crassa*  
ccg-2 78  
gnb-1 129  
*Penicillium chrysogenum*  
penDE 31  
*Penicillium marneffei*  
gasC 131  
tupA 117  
*Penicillium paxilli*  
pprad51 109  
*Saccharomyces cerevisiae*  
lys5 77  
*Trichoderma reesei*  
xyn2 egI 101

### Genes in other organisms

- Arabidopsis thaliana*  
aba3 102  
*Glycine max*  
GmN6L 118  
*Homo sapiens*  
MLK3 113c  
AIP1/Alix 124  
nek2 37

*Lycopersicon esculentum*  
flacca 102

### Organisms (see also genes)

#### Fungi

*A. bombycis* 26  
*A. flavus* 26 40  
*A. fumigatus* 32 33 97 107 125  
*A. giganteus* 116  
*A. niger* 42 64<sup>h</sup> 84 101e 116  
*A. nomius* 26  
*A. oryzae* 1 58<sup>e</sup> 89  
*A. parasiticus* 26 128  
*A. pseudotamarii* 26  
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*Ceriporiopsis subvermispora* 64<sup>e</sup>  
*Penicillium chrysogenum* 116  
*Penicillium paxilli* 75 109  
*Sclerotinia sclerotiorum* 122

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Cochet, M.-F. 83  
Coggins, J.R. 126  
Colebatch, G. 118  
Cotty, P.J. 26  
Coutinho-Netto, J. 85  
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d'Enfert, C. 23 32 33  
Davies, J. 91  
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De Wit, P.J.G.M. 110  
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Debets, A.J.M. 9  
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