

Aspergillus Bibliography

John Clutterbuck

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Aspergillus Bibliography

Abstract

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ASPERGILLUS BIBLIOGRAPHY

This bibliography attempts to cover genetical and biochemical publications on *Aspergillus nidulans* and also includes selected references to related species and topics. I would be grateful for publication lists and reprints, especially for papers in books and less readily available periodicals. Entries have been checked as far as possible, but please tell me of any errors.

John Clutterbuck

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- 1. Aleksenko, A.Y. & Clutterbuck, A.J.** 1995 Recombinational stability of replicating plasmids in *Aspergillus nidulans* during transformation, vegetative growth and sexual reproduction. *Curr. Genet.* **28**: 87-93.
- 2. Aleksenko, A. & Clutterbuck, A.J.** 1996 The plasmid replicator AMA1 in *Aspergillus nidulans* is an inverted duplication of a low-copy-number dispersed genomic repeat. *Mol. Microbiol.* **19**: 565-574.
- 3. Aleksenko, A., Gems, D. & Clutterbuck, J.** 1996 Multiple copies of MATE elements support autonomous plasmid replication in *Aspergillus nidulans*. *Mol. Microbiol.* **20**: 427-434.
- 4. Aleksenko, A.Y., Makarova, N.A., Nikolaev, I.V. & Clutterbuck, A.J.** 1995 Integrative and replicative transformation of *Penicillium canescens* with a hetero-logous nitrate-reductase gene. *Curr. Genet.* **28**: 474-477.
- 5. Allen, S.J. & Holbrook, J.J.** 1995 Isolation, sequence and overexpression of the gene encoding NAD-dependent formate dehydrogenase from the methylotrophic yeast *Candida methylica*. *Gene* **162**: 99-104.
- 6. Amutan, M., Nyyssönen, E., Stubbs, J., Diaz-Torres, M.R. & Dunn-Coleman, N.** 1996 Identification and cloning of a mobile transposon from *Aspergillus niger* var. *awamori*. *Curr. Genet.* **29**: 468-473.
- 7. Arisan-Atac, I., Wolschek, M. & Kubicek, C.P.** 1996 Trehalose-6-phosphate synthase A affects citrate accumulation by *Aspergillus niger* under conditions of high glycolytic flux. *FEMS Microbiol. Lett.* **140**: 77-83.
- 8. Arst, H.N.Jr.** 1995 Nitrogen metabolite repression in *Aspergillus nidulans*: an historical perspective. *Can. J. Bot.* **73**: (Suppl. 1) S148-S152.
- 9. Arst, H.N.Jr. & Sheerins, A.** 1996 Translational initiation competence, 'leaky scanning' and translational reinitiation in *areA* mRNA of *Aspergillus nidulans*. *Mol. Microbiol.* **19**: 1019-1024.

- 10. Bartling, S., van den Hombergh, J.P.T.W., Olsen, O., von Wettstein, D. & Visser, J.** 1996 Expression of an *Erwinia* pectate lyase in three species of *Aspergillus*. *Curr. Genet.* **29**: 474-481.
- 11. Barton, N.R. & Goldstein, L.S.B.** 1996 Going mobile: Microtubule motors and chromosome segregation. *Proc. Nat. Acad. U.S.A.* **93**: 1735-1742.
- 12. Bonnarme, P., Gillet, B., Sepulchre, A.M., Role, C., Beloeil, J.C. & Decroq, C.** 1995 Itaconate biosynthesis in *Aspergillus terreus*. *J. Bacteriol.* **177**: 3573-3578.
- 13. Borges-Walmsley, M.I., Turner, G., Bailey, A.M., Brown, J., Lehmbek, J. & Clausen, I.G.** 1995 Isolation and characterisation of genes for sulphate activation and reduction in *Aspergillus nidulans*: implications for evolution of an allosteric control region by gene duplication. *Mol. Gen. Genet.* **247**: 423-429.
- 14. Brakhage, A.A. & van den Brulle, J.** 1995 Use of reporter genes to identify recessive *trans*-acting mutations specifically involved in the regulation of *Aspergillus nidulans* penicillin biosynthesis genes. *J. Bacteriol.* **177**: 2781-2788.
- 15. Brandhorst, T., Dowd, P.F. & Kenealy, W.R.** 1996 The ribosome-inactivating protein restrictocin deters insect feeding on *Aspergillus restrictus*. *Microbiology* **142**: 1551-1556.
- 16. Brandhorst, T. & Kenealy, W.R.** 1995 Effects of leader sequences upon the heterologous expression of restrictocin in *Aspergillus nidulans* and *Aspergillus niger*. *Can. J. Microbiol.* **41**: 601-611.
- 17. Brown, D.W., Yu, J.-H., Kelkar, H.S., Fernandes, M., Nesbitt, T.C., Keller, N.P., Adams, T.H. & Leonard, T.J.** 1996 Twenty-five coregulated transcripts define a sterigmatocystin gene cluster in *Aspergillus nidulans*. *Proc. Nat. Acad. Sci. U.S.A.* **93**: 1418-1422.
- 18. Busby, T.M., Miller, K.Y. & Miller, B.L.** 1996 Suppression and enhancement of the *Aspergillus nidulans medusa* mutation by altered dosage of the *bristle* and *stunted* genes. *Genetics* **143**: 155-163.
- 19. Caddick, M., Archer, D., Assinder, S., Catcheside, D. & Clutterbuck, J.** 1996 Meeting report: The filaments that bind us. *Microbiology* **142**: 213-214.
- 20. Cardenas, M.E., Muir, R.S., Breuder, T. & Heitman, J.** 1995 Targets of immunophilin-immunosuppressant complexes are distinct highly conserved regions of calcineurin A. *EMBO J.* **14**: 2772-2783.
- 21. Cassart, J.P., Georis, I., Östling, J., Ronne, H. & Vandenhoute, J.** 1995 The MIG1 repressor from *Kluyveromyces lactis*: Cloning, sequencing and functional analysis in *Saccharomyces cerevisiae*. *FEBS-Lett.* **371**:191-194.

- 22. Castro-Prado, M.A.A. & Zucchi, T.M.A.D.** 1996 A gene inactivation system (GIS) acting in meiosis of a duplicated strain of *Aspergillus nidulans*. *Bras. J. Genet.* **19**: 17-25.
- 23. Chang, P.-K., Cary, J.W., Yu, J., Bhatnagar, D. & Cleveland, T.E.** 1995 The *Aspergillus parasiticus* polyketide synthase gene *pksA*, a homolog of *Aspergillus nidulans* *wA*, is required for aflatoxin B1 biosynthesis. *Mol. Gen. Genet.* **248**: 270-277.
- 24. Chiu, Y.H. & Morris, N.R.** 1995 Extragenic suppressors of *nudC3*, a mutation that blocks nuclear migration in *Aspergillus nidulans*. *Genetics* **141**: 453-464.
- 25. Chu, Y.-W., Renno, D. & Saunders, G.** 1995 detection of a protein which binds specifically to the upstream region of the *pcbAB* gene in *Penicillium chrysogenum*. *Curr. Genet.* **28**: 184--189.
- 26. Clement, D.J., Stanley, M.S., Attwell, N.A., Clipson, N.J.W., Fincham, D.A. & Hooley, P.** 1996 Evidence for *sltA1* as a salt-sensitive allele of the arginase gene (*agaA*) in the ascomycete *Aspergillus nidulans*. *Curr. Genet.* **29**: 462-467.
- 27. Collett, M.A., Bradshaw, R.E. & Scott, D.B.** 1995 A mutualistic fungal symbiont of perennial ryegrass contains two different *pyr4* genes, both expressing orotidine-5'-monophosphate decarboxylase. *Gene* **158**: 31-39.
- 28. Crebelli, R., Andreoli, C., Carere, A., Conti, L., Crochi, B., Cotta-Ramusino, M. & Benigni, R.** 1995 Toxicology of halogenated aliphatic hydrocarbons: Structural and molecular determinants for the disturbance of chromosome segregation and the induction of lipid peroxidation. *Chemico-Biological-Interact.* **98**: 113-129.
- 29. Crous, J.M., Pretorius, I.S. & van Zyl, W.H.** 1995 Cloning and expression of an *Aspergillus kawachii* endo-1,4-*-xylanase* gene in *Saccharomyces cerevisiae*. *Curr. Genet.* **28**: 467-473.
- 30. De Bièvre, C. & Dujon, B.** 1995 Organisation of the mitochondrial genome of *Trichophyton rubrum*. DNA sequence analysis of the ND4 gene, the ATPase subunit-6 gene, the ribosomal RNA small-subunit gene, the ND6 gene, the *COXIII* gene, the ATPase subunit-8 gene and six tRNA genes that correspond respectively to the tyrosine, lysine, glutamine, asparagine, isoleucine and tryptophan isoacceptors. *Curr. Genet.* **28**: 553-559.
- 31. De Cal, A., Pascual, S., Larena, I. & Melgarejo, P.** 1995 Biological control of *Fusarium oxysporum* f. sp. *lycopersici*. *Plant Pathol. (Oxford)* **44**: 909-917.
- 32. Denison, S.H., Orejas, M. & Arst, H.N.Jr.** 1995 Signaling of ambient pH in *Aspergillus* involves a cysteine protease. *J. Biol. Chem.* **270**: 28519-28522.
- 33. DeVries, L., Mousli, M., Wurmser, A. & Farquhar, M.G.** 1995 GAIP, a protein that specifically interacts with the trimeric G protein G β 3, is a member of a protein family with a highly conserved core domain. *Proc. Nat. Acad. Sci. U.S.A.* **92**: 11916-11920.

- 34. Diallinas, G., Gorfinkiel, L., Arst, H.N.Jr., Cecchetto, G. & Scazzocchio, C.** 1995 Genetic and molecular characterization of a gene encoding a wide specificity purine permease of *Aspergillus nidulans* reveals a novel family of transporters conserved in prokaryotes and eukaryotes. *J. Biol. Chem.* **270**: 8610-8622.
- 35. Donnelly, E., Barnett, Y.A. & McCullough, W.** 1995 Quantification of DNA damage and repair in amino acid auxotrophs and UV-sensitive mutants of *Aspergillus nidulans* using an ELISA. *FEBS Lett.* **377**: 118-122.
- 36. Esser, K. & Blaich, R.** 1994 Heterogenic incompatibility in fungi. In Wessels, J.G.H. and Meinhardt, F. (Ed.). *The Mycota, I: Growth, differentiation and sexuality.* Springer-Verlag, Berlin, pp. 210-232.
- 37. Feng, G.H. & Leonard, T.J.** 1995 Characterization of the polyketide synthase gene (*pksLI*) required for aflatoxin biosynthesis in *Aspergillus parasiticus*. *J. Bacteriol.* **177**: 6246-6254.
- 38. Fernández-Cañón, J.M. & Peñalva, M.A.** 1995 Fungal metabolic model for human type I hereditary tyrosinaemia. *Proc. Nat. Acad. Sci. USA* **92**: 9132-9136.
- 39. Fernández-Cañón, J.M. & Peñalva, M.A.** 1995 Molecular characterization of a gene encoding a homogentisate dioxygenase from *Aspergillus nidulans* and identification of its human and plant homologues. *J. Biol. Chem.* **270**: 21199-21205.
- 40. Fierro, F., Barredo, J.L., Díez, B., Gutierrez, S., Fernández, F.J. & Martín, J.F.** 1995 the penicillin gene cluster is amplified in tandem repeats linked by conserved hexanuclotide sequences. *Proc. Nat. Acad. Sci. U.S.A.* **92**: 6200-6204.
- 41. Fierro, F., Kosalková, K., Gutiérrez, S. & Martín, J.** 1996 Autonomously replicating plasmids carry the *AMA1* region in *Penicillium chrysogenum*. *Curr. Genet.* **29**: 482-489.
- 42. Fierro, F., Montenegro, E., Gutiérrez, S. & Martín, J.F.** 1996 Mutants blocked in penicillin biosynthesis show a deletion of the entire gene cluster at a specific site within a conserved hexanucleotide sequence. *Appl. Microbiol. Biotechnol.* **44**: 597-604.
- 43. Fillinger, S. & Felenbok, B.** 1996 A newly identified gene cluster in *Aspergillus nidulans* comprises five novel genes localized in the *alc* region that are controlled both by the specific transactivator AlcR and the carbon-catabolite repressor CreA. *Mol. Microbiol.* **20**: 475-488.
- 44. Fillinger, S., Panozza, C., Mathieu, M. & Felenbok, B.** 1995 The basal level of transcription of the *alc* genes in the ethanol regulon in *Aspergillus nidulans* is controlled by the specific transactivator AlcR and the general carbon catabolite repressor CreA. *FEBS Lett.* **368**: 547-550.
- 45. Fischer, M., Durand, R. & Fèvre, M.** 1995 Characterization of the "promoter region" of the enolase-encoding gene *enol* from the anaerobic fungus *Neocallimastix frontalis*: Sequence and promoter analysis. *Curr. Genet.* **28**: 80-86.

- 46. Fogarty, W.M.** 1994 Enzymes of the genus *Aspergillus*. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 177-218.
- 47. Fontz, K.R., Wolushok, C.P. & Payne, G.A.** 1995 Cloning and assignment of linkage group loci to a karyotypic map of the filamentous fungus *Aspergillus flavus*. *Mycologia* **87**: 787-794.
- 48. Fry, A.M., Schultz, S.J., Bartek, J. & Nigg, E.A.** 1995 Substrate specificity and cell cycle regulation of the Nek2 protein kinase, a potential human homolog of the mitotic regulatory NIMA of *Aspergillus nidulans*. *J. Biol. Chem.* **270**: 12899-12905.
- 49. Geiser, D.M., Arnold, M.L. & Timberlake, W.E.** 1996 Wild chromosomal variants in *Aspergillus nidulans*. *Curr. Genet.* **29**: 293-300.
- 50. Gervais, P. & Bensoussan, M.** 1994 Solid state fermentaion of the genus *Aspergillus*. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 101-140.
- 51. Gibbons, I.R.** 1995 Dynein family of motor proteins: Present status and future questions. *Cell Motility Cytoskel.* **32**: 136-144.
- 52. Glass, N.L. & Donaldson, G.C.** 1995 Development of primer sets designed for use with the PCR to amplify conserved genes from filamentous ascomycetes. *Appl. Env. Microbiol.* **61**: 1323-1330.
- 53. Glayzer, D.C., Roberts, I.N., Archer, D.B. & Oliver, R.P.** 1995 The isolation of *Ant1*, a transposable element from *Aspergillus niger*. *Mol. Gen. Genet.* **249**: 432-438.
- 54. Goodrich-Tanrikulu, M., Mahoney, N.E. & Rodrigues, S.B.** 1995 The plant growth regulator methyl jasmonate inhibits aflatoxin production by *Aspergillus flavus*. *Microbiology* **141**: 2831-2837.
- 55. Haas, H. & Marzluf, G.A.** 1995 NRE, the major nitrogen regulatory protein of *Penicillium chrysogenum*, binds specifically to elements in the intergenic promoter regions of nitrate assimilation and penicillin biosynthetic gene clusters. *Curr. Genet.* **28**: 177-183.
- 56. Harris, S.D. & Hamer, J.E.** 1995 *SepB*: an *Aspergillus nidulans* gene involved in chromosome segregation and the initiation of cytokinesis. *EMBO J.* **14**: 5244-5257.
- 57. Harvey, W.M. & McNeill, B.** 1994 Liquid fermentation systems and product recovery of *Aspergillus*. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 141-176.
- 58. Hintz, W.E., Kalsner, I., Plawinski, E., Guo, Z. & Lagosky, P.A.** 1995 Improved gene expression in *Aspergillus nidulans*. *Can. J. Bot.* **73 suppl 1**: s876-s884.

- 59. Hegh, I., Patkar, S., Halkier, T. & Hansen, M.T.** 1995 Two lipases from *Candida antarctica*: cloning and expression in *Aspergillus oryzae*. *Can. J. Bot.* **73 Supp 1**: S869-875.
- 60. Holt, C.L. & May, G.S.** 1996 An extragenic suppressor of the mitosis-defective *bimD6* mutation of *Aspergillus nidulans* codes for a chromosome scaffold protein. *Genetics* **142**: 777-787.
- 61. Horn, B.W. & Greene, R.L.** 1995 Vegetative compatibility within populations of *Aspergillus flavus*, *A. parasiticus* and *A. tamarii* from a peanut field. *Mycologia* **87**: 324-332.
- 63. Huang, K.-X., Fujii, I., Ebizuka, Y., Gomi, K. & Sankawa, U.** 1995 Molecular cloning and heterologous expression of the gene encoding dihydrogeodin oxidase, a multicopper blue enzyme from *Aspergillus terreus*. *J. Biol. Chem.* **270**: 21495-21502.
- 64. Huang, K.-x., Iwakami, N., Fujii, I., Ebizuka, Y. & Sankawa, U.** 1995 Transformations of *Penicillium islandicum* and *Penicillium frequentans* that produce anthroquinone-related compounds. *Curr. Genet.* **28**: 580-584.
- 65. Hunter, G.D., Jones, I.G. & Sealy-Lewis, H.M.** 1996 The cloning and sequencing of the *alcB* gene, coding for alcohol dehydrogenase II, in *Aspergillus nidulans*. *Curr. Genet.* **29**: 122-129.
- 66. Hur, M. & Waring, R.B.** 1995 Two group I introns with a C G basepair at the 5' splice-site instead of the very highly conserved U G basepair: is selection post-translational? *Nucleic Acids Res.* **23**: 4466-4470.
- 67. Itoh, Y. & Scott, B.** 1994 Heterologous and homologous plasmid integration at a spore-pigment locus in *Penicillium paxilli* generates large deletions. *Curr. Genet.* **26**: 469-476.
- 68. Itoh, Y., Johnson, R. & Scott, B.** 1994 Integrative transformation of the mycotoxin-producing fungus *Penicillium paxilli*. *Curr. Genet.* **25**: 508-513.
- 69. Iwanejko, L., Cotton, C., Jones, G., Tomsett, B. & Strike, P.** 1996 *nuvA*, an *Aspergillus nidulans* gene involved in DNA repair and recombination, is a homologue of *Saccharomyces cerevisiae* RAD18 and *Neurospora crassa* *uvs-2*. *Microbiol.* **142**: 505-515.
- 70. James, S.W., Mirabito, P.M., Scacheri, P.C. & Morris, N.R.** 1995 The *Aspergillus nidulans* *bimE* (blocked-in-mitosis) gene encodes multiple cell cycle functions involved in mitotic checkpoint control and mitosis. *J. Cell Sci.* **108**: 3485-3499.
- 71. Kalsner, I., Hintz, W., Reid, L.S. & Schachter, H.** 1995 Insertion into *Aspergillus nidulans* of functional UDP-GlcNAc: 3-D-mannoside -1,2-N-acetylglucosaminyl-transferase I, the enzyme catalysing the first committed step from oligomannose to hybrid and complex N-glycans. *Glycoconjugate J.* **12**: 360-370.

- 72. Katz, M.E., Flynn, P.K., vanKuyk, P.A. & Cheetham, B.F.** 1996 Mutations affecting extracellular protease production in the filamentous fungus *Aspergillus nidulans*. *Mol. Gen. Genet.* **250**: 715-724.
- 73. Keller, N.P., Segner, S., Bhatnagar, D. & Adams, T.H.** 1995 *stcS*, a putative P-450 monooxygenase, is required for the conversion of versicolorin A to sterigmatocystin in *Aspergillus nidulans*. *Appl. Env. Microbiol.* **61**: 3628-3632.
- 74. Kersten, P.J., Witek, C., Vanden-Wymelenberg, A. & Cullen, D.** 1995 *Phanerochaete chrysosporium* glyoxal oxidase is encoded by two allelic variants: structure, genomic organization, and heterologous expression of *glx1* and *glx2*. *J. Bacteriol.* **177**: 6106-6110.
- 75. Khurana, N., Saxena, R.K., Gupta, R. & Rajan, M.V.** 1996 Polyamines as modulators of microcycle conidiation in *Aspergillus flavus*. *Microbiology* **142**: 517-523.
- 76. Kinghorn, J.R. & Unkles, S.E.** 1994 Molecular genetics and expression of foreign proteins in the genus *Aspergillus*. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 65-100.
- 77. Klich, M.A., Yu, J., Chang, P.K., Bhatnagar, D. & Cleveland, T.E.** 1995 Hybridization of genes involved in aflatoxin biosynthesis to DNA of aflatoxigenic and non-aflatoxigenic Aspergilli. *Appl. Microbiol. Biotechnol.* **44**: 439-443.
- 78. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1251: *Aspergillus flavus*. *Mycopathologia* **132**: 43-44.
- 79. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1252: *Aspergillus fumigatus* *Mycopathologia* **132**: 45-46.
- 80. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1253: *Aspergillus terreus*. *Mycopathologia* **132**: 49-50.
- 81. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1254: *Emericella nidulans*. *Mycopathologia* **132**: 49-50.
- 82. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1255: *Eurotium repens* *Mycopathologia* **132**: 51-52.
- 83. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1256: *Eurotium rubrum*. *Mycopathologia* **132**: 53-54.
- 84. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1257: *Penicillium chrysogenum*. *Mycopathologia* **132**: 55-56.
- 85. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1258: *Penicillium expansum*. *Mycopathologia* **132**: 57-58.

- 86. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1259: *Penicillium griseofulvum*. Mycopathologia **132**: 59-60.
- 87. Kozakiewicz, Z.** 1995 IMI descriptions of fungi and bacteria no. 1260: *Penicillium hirsutum*. Mycopathologia **132**: 61-62.
- 88. Kozakiewicz, Z. & Smith, O.** 1994 Physiology of *Aspergillus*.. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 23-40.
- 89. Kratzer, S. & Schüller, H.J.** 1995 Carbon source-dependent regulation of the acetyl-coenzyme A synthetase-encoding gene ACS1 from *Saccharomyces cerevisiae*. Gene **161**: 75-79.
- 90. Krell, T., Pitt, A.R. & Coggins, J.R.** 1995 The use of electrospray mass spectrometry to identify an essential arginine residue in type II dehydroquinases. FEBS Lett. **360**: 93-96.
- 91. Kumar, S. & Ramon, D.** 1996 Purification and regulation of the synthesis of a -xylosidase from *Aspergillus nidulans*. FEMS Microbiol. Lett. **135**: 287-293.
- 92. Lamb, H.K., Moore, J.D., Lakey, J.H., Levett, L.J., Wheeler, K.A., Lago, H., Coggins, J.R. & Hawkins, A.R.** 1996 Comparative analysis of the QUTR transcription repressor protein and the three C-terminal domains of the pentafunctional AROM enzyme. Biochem. J. **313**: 941-950.
- 93. Lamb, H.K., Newton, G.H., Levett, L.J., Cairns, E., Roberts, C.F. & Hawkins, A.R.** 1996 The QUTA activator and QUTR repressor proteins of *Aspergillus nidulans* interact to regulate transcription of the quinate utilization pathways genes. Microbiology **142**: 1477-1490.
- 94. Langdon, T., Sheerins, A., Ravagnani, A., Gielkens, M., Caddick, M.X. & Arst, H.N.Jr.** 1995 Mutational analysis reveals dispensability of the N-terminal region of the *Aspergillus* transcription factor mediating nitrogen metabolite repression. Mol. Microbiol. **17**: 877-888.
- 95. Lee, B.N. & Adams, T.H.** 1996 *fluG* and *flbA* function interdependently to initiate conidiophore development in *Aspergillus nidulans* through *brlA* activation. EMBO J. **15**: 299-309.
- 96. Lee, D.W., Lee, S.H., Hwang, H.-A., Kim, J.H. & Chae, K.S.** 1996 Quantitative analysis of gene expression in sexual structures of *Aspergillus nidulans* by sequencing of 3'-directed cDNA clones. FEMS Microbiol. Lett. **138**: 71-76.
- 97. Lee, J.H., Kwon, K.-S. & Han, C.Y.** 1996 Regulation of -galactosidase biosynthesis in *Aspergillus nidulans*. FEMS Microbiol. Lett. **135**: 79-84.
- 98. Lee, Y.C., Lee, B.J. & Kang, H.S.** 1996 The RNA component of mitochondrial ribonuclease P from *Aspergillus nidulans*. Eur. J. Biochem. **235**: 297-303.
- 99. Lee, Y.C., Lee, B.J., Hwang, D.S. & Kang, H.S.** 1996 Purification and characterization of mitochondrial ribonuclease P from *Aspergillus nidulans*. Eur. J. Biochem. **235**: 289-296.

- 100. Levesley, I., Newton, G.H., Lamb, H.K., van Schothorst, E., Dalglish, R.W.M., Samson, A.C.R., Roberts, C.F. & Hawkins, A.R.** 1996 Domain structure and function within the QUTA protein of *Aspergillus nidulans*: implications for the control of transcription. *Microbiology* **142**: 87-98.
- 101. Lewis, C. & Champe, S.P.** 1995 A pre-induction sporulation gene from *Aspergillus nidulans*. *Microbiology* **141**: 1821-1828.
- 102. Lewis, C.W., Anderson, J.G. & Smith, J.E.** 1994 Health related aspects of the genus *Aspergillus*. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 219-261.
- 103. Li Calzi, M., Raviolo, C., Ghibaudi, E., De Gioia, L., Salmona, M., Cazzaniga, G., Kurosaki, M., Terao, M. & Garattini, E.** 1995 Purification, cDNA cloning, and tissue distribution of bovine liver aldehyde oxidase. *J. Biol. Chem.* **270**: 31037-31045.
- 104. Litzka, O., Then-Bergh, K. & Brakhage, A.A.** 1995 Analysis of the regulation of the *Aspergillus nidulans* penicillin biosynthesis gene *aat* (*penDE*), which encodes acyl coenzyme A:6-aminopenicillanic acid acyltransferase. *Mol. Gen. Genet.* **249**: 557-569.
- 105. López-Medrano, R., Ovejero, M.C., Calera, J.A., Puente-P. & Leal, F.** 1995 *Aspergillus fumigatus* antigens. *Microbiology* **141**: 2699-2704.
- 106. Lu, K.P. & Hunter, T.** 1995 Evidence for a NIMA-like mitotic pathway in vertebrate cells. *Cell* **81**: 413-424.
- 107. Luengo, J.M.** 1995 Enzymatic synthesis of hydrophobic penicillins. *J. Antibiotics (Tokyo)* **48**: 1195-1212.
- 108. Luo, X.** 1995 Cloning and characterization of three *Aspergillus niger* promoters. *Gene* **163**: 127-131.
- 109. MacCabe, A.P., van den Hombergh, J.P.T.W., Tilburn, J., Arst, H.N.Jr. & Visser, J.** 1996 Identification, cloning and analysis of the *Aspergillus niger* gene *pacC*, a wide domain regulatory gene responsive to ambient pH. *Mol. Gen. Genet.* **250**: 367-374.
- 110. Maccheroni, W.Jr., Martinez-Rossi, N.M. & Rossi, A.** 1995 Does gene *palB* regulate the transcription or the post-translational modification of Pi-repressible phosphatases of *Aspergillus nidulans*? *Brazil. J. Med. Biol. Res.* **28**: 31-38.
- 111. Mach, R.L., Seiboth, B., Myasnikov, A., Gonzalez, R., Strauss, J., Harkki, A.M. & Kubicek, C.P.** 1995 The *bgII* gene of *Trichoderma reesei* QM 9414 encodes an extracellular, cellulose-inducible -glucosidase involved in cellulase induction by sophorose. *Mol. Microbiol.* **16**: 687-697.

- 112. Mallado, E., Aufauvre-Brown, A., Gow, N.A.R. & Holden, D.W.** 1996 The *Aspergillus fumigatus* *chsC* and *chsG* genes encode class III chitin synthases with different functions. *Mol. Microbiol.* **20**: 667-679.
- 113. Marx, F., Haas, H., Hofer, S., Stöffler, G. & Redl, B.** 1995 Sequence and structure of *Penicillium chrysogenum* *phoG*, homologous to an acid phosphatase-encoding gene of *Aspergillus nidulans*. *Gene* **160**: 137-138.
- 114. Matheucci, E.Jr., Henrique-Silva, F., El-Gogary, S., Rossini, C.H.B., Leite, A., Vera, J.E., Urioste, J.C.C., Crivellaro, O. & El-Dorry H.** 1995 Structure, organization and promoter expression of the actin-encoding gene in *Trichoderma reesei*. *Gene* **161**: 103-106.
- 115. Mernitz, G., Koch, A., Henrissat, B. & Schultz, G.** 1996 Endoglucanase II (EGII) of *Penicillium janthinellum*: cDNA sequence, heterologous expression and promoter analysis. *Curr. Genet.* **29**: 490-495.
- 116. Mizuki, M., Chikuba, K. & Tanaka, K.** 1994 A case of chronic necrotizing pulmonary aspergillosis due to *Aspergillus nidulans*. *Mycopathol.* **128**: 75-79.
- 117. Momany, M., Morrell, J.L., Harris, S.D. & Hamer, J.E.** 1995 Septum formation in *Aspergillus nidulans*. *Can. J. Bot.* **73** (Suppl 1): S396-S399.
- 118. Morawetz, R., Lendenfeld, T., Mischak, H., Mühlbauer, M., Gruber, F., Goodnight, J., de Graaf, L.H. & Visser, J.** 1996 Cloning and characterisation of genes (*pkc1* and *pkcA*) encoding protein kinase C homologues from *Trichoderma reesei* and *Aspergillus niger*. *Mol. Gen. Genet.* **250**: 17-28.
- 119. Morris, N.R., Xiang, X. & Beckwith, S.M.** 1995 Nuclear migration advances in fungi. *Trends Cell Biol.* **5**: 278-282.
- 120. Navarro, R.E., Stringer, M.A., Hansberg, W., Timberlake, W.E. & Aguirre, J.** 1995 *catA*, a new *Aspergillus nidulans* gene encoding a developmentally regulated catalase. *Curr. Genet.* **29**: 352-359.
- 121. Navarro-Bordonaba, J. & Adams, T.H.** 1994 Development of conidia and fruiting bodies in Ascomycetes. In Wessels, J.G.H. and Meinhardt, F. (Ed.). *The Mycota, I: Growth, differentiation and sexuality*. Springer-Verlag, Berlin, pp. 333-349.
- 122. Oakley, B.R.** 1995 -Tubulin and the fungal microtubule cytoskeleton. *Can. J. Bot.* **73** (Suppl. 1) S352-S358.
- 123. Oestreicher, N. & Scazzocchio, C.** 1995 A single amino acid change in a pathway-specific transcription factor results in differing degrees of constitutivity, hyperinducibility and derepression of several structural genes. *J. Mol. Biol.* **249**: 693-699.

- 124. Orejas, M., Espeso, E.A., Tilburn, J., Sarkar, S., Arst, H.N.Jr. & Peñalva, M.A.** 1995 Activation of the *Aspergillus* PacC transcription factor in response to alkaline ambient pH requires proteolysis of the carboxy-terminal moiety. *Genes. Dev.* **9**: 1622-1632.
- 125. Park, J.-C., Nemato, T., Homma, T., Sato, R., Matsuoka, H., Takatori, K. & Kurata, H.** 1994 Adaptation of *Aspergillus niger* to several antifungal agents. *Microbiology* **140**: 2409-2414.
- 126. Pérez-Esteban, B., Gómez-Pardo, E. & Peñalva, M.A.** 1995 A *lacZ* reporter fusion method for the genetic analysis of regulatory mutations in pathways of fungal secondary metabolism and its application to the *Aspergillus nidulans* penicillin pathway. *J. Bacteriol.* **177**: 6069-6076.
- 127. Platt, A., Langdon, T., Arst, H.N.Jr., Kirk, D., Tollervey, D., Mates Sanchez, J.M. & Caddick, M.X.** 1996 Nitrogen metabolite signalling involves the C-terminus and the GATA domain of the *Aspergillus* transcription factor AREA and the 3' untranslated region of its mRNA. *EMBO J.* **15**: 2791-2801.
- 128. Platt, A., Ravagnani, A., Arst, H.Jr., Kirk, D., Langdon, T. & Caddick, M.X.** 1996 Mutational analysis of the C-terminal region of AREA, the transcription factor mediating nitrogen metabolite repression in *Aspergillus nidulans*. *Mol. Gen. Genet.* **250**: 106-114.
- 129. Pu, R.T., Xu, G., Wu, L., Vierula, J., O'Donnell, K., Ye, X.S. & Osmani, S.A.** 1995 Isolation of a functional homolog of the cell cycle-specific NIMA protein kinase of *Aspergillus nidulans* and functional analysis of conserved residues. *J. Biol. Chem.* **270**: 18110-18116.
- 130. Punt, P.J., Strauss, J., Smit, R., Kinghorn, J.R., van den Hondel, C.A.M.J.J. & Scazzocchio, C.** 1995 The intergenic region between the divergently transcribed *niiA* and *niaD* genes of *Aspergillus nidulans* contains multiple NirA binding sites which act bidirectionally. *Mol. Cell. Biol.* **15**: 5688-5699.
- 131. Ramesh, M.V., Sirakova, T.D. & Kolattudy, P.E.** 1995 Cloning and characterization of the cDNAs and genes (*mep20*) encoding homologous metalloproteinases from *Aspergillus flavus* and *A. fumigatus*. *Gene* **165**: 121-125.
- 132. Ravagnani, A. & Arst, H.N.Jr.** 1995 Quantitation of oligohistidine fusion proteins using ⁶³Ni²⁺ chelation. *Nucl. Acids Res.* **23**: 3069-3070.
- 133. Redkar, R.J., Lemke, P.A. & Singh, N.K.** 1995 Isolation of differentially expressed cDNA clones from salt-adapted *Aspergillus nidulans*. *Curr. Genet.* **29**: 130-135.
- 134. Redkar, R.J., Locy, R.D., Singh, N.K.** 1995 Biosynthetic pathways of glycerol accumulation under salt stress in *Aspergillus nidulans*. *Exp. Mycol.* **19**: 241-246.
- 135. Roach, P.L., Schofield, C.J., Baldwin, J.E., Clifton, I.J. & Hajdu, J.** 1995 Crystallization and preliminary X-ray diffraction studies on recombinant isopenicillin N synthase from *Aspergillus nidulans*. *Prot. Sci.* **4**: 1007-1009.

- 136. Rodrigues, V., Cheah, P.Y., Ray, K. & Chia, W.** 1995 Malvolio, The *Drosophila* homologue of mouse NRAMP-1 (*Bcg*), is expressed in macrophages and in the nervous system and is required for normal taste behaviour. *EMBO J.* **14**: 3007-3020.
- 137. Rohe, M., Searle, J., Newton, A.C. & Knogge, W.** 1996 Transformation of the plant pathogenic fungus *Rynchosporium secalis*. *Curr. Genet.* **29**: 587-590.
- 138. Samson, R.A.** 1994 Taxonomy - current concepts of *Aspergillus* systematics. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 1-22.
- 139. Sarkar, S., Caddick, M.X., Bignell, E., Tilburn, J. & Arst, H.N.Jr.** 1996 Regulation of gene expression by ambient pH in *Aspergillus*: genes expressed at acid pH. *Biochem. Soc. Trans.* **24**: 360-363.
- 140. Scazzocchio, C., Gavrias, V., Cubero, B., Panozzo, C., Mathieu, M. & Felenbok, B.** 1995 Carbon catabolite repression in *Aspergillus nidulans*: a review. *Can. J. Bot.* **73**: (Suppl. 1) S160-S166.
- 141. Schilling, B. & Lerch, K.** 1995 Cloning, sequencing and heterologous expression of the monoamine oxidase gene from *Aspergillus niger*. *Mol. Gen. Genet.* **247**: 430-438.
- 142. Sealy-Lewis, H.M. & Fairhurst, V.** 1995 Substrate specificity of nine NAD⁺-dependent alcohol dehydrogenases in *Aspergillus nidulans*. *Microbiology* **141**: 2295-2300.
- 143. Sentandreu, R., Mormeneo, S. & Ruiz-Herrera, J.** 1994 Biogenesis of the fungal cell wall. In Wessels, J.G.H. and Meinhardt, F. (Ed.). *The Mycota, I: Growth, differentiation and sexuality*. Springer-Verlag, Berlin, pp. 111-124.
- 144. Sietsma, J.H. & Wessels, J.G.H.** 1994 Apical wall biogenesis. In Wessels, J.G.H. and Meinhardt, F. (Ed.). *The Mycota, I: Growth, differentiation and sexuality*. Springer-Verlag, Berlin, pp. 125-141.
- 145. Singh, H.B., Srivastava, M., Singh, A.B. & Srivastava, A.K.** 1995 Cinnamon bark oil, a potent fungitoxicant against fungi causing respiratory tract mycoses. *Allergy (Copenhagen)* **50**: 995-999.
- 146. Singh, N.K. & Tiwary, B.N.** 1996 Fast dissociation of phe-tRNA synthetase from *Aspergillus nidulans* immobilized on sepharose-6B column by NaCl. *J. Basic Microbiol.* **36**: 59-62.
- 147. Straffon, M.J., Hynes, M.J. & Davies, M.A.** 1995 Characterization of the *ugatA* gene of *Ustilago maydis*, isolated by homology with the *gatA* gene of *Aspergillus nidulans*. *Curr. Genet.* **29**: 360-369.

- 148. Strauss, J., Mach, R.L., Zeilinger, S., Hartler, G., Stöffler, G., Wolschek, M. & Kubicek, C.P.** 1995 Crel, the carbon catabolite repressor protein from *Trichoderma reesei*. FEBS Lett. **376**: 103-107.
- 149. Suáraz, T. & Peñalva, M.A.** 1996 Characterization of a *Penicillium chrysogenum* gene encoding a PacC transcription factor and its binding sites in the divergent *pcbAB-pcbC* promoter of the penicillin biosynthetic cluster. Mol. Microbiology **20**: 529-540.
- 150. Takano, Y., Kubo, Y., Shimizu, K., Mise, K., Okuno, T. & Furusawa, I.** 1995 Structural analysis of PKS1, a polyketide synthase gene involved in melanin biosynthesis in *Colletotrichum lagenarium*. Mol. Gen. Genet. **249**: 162-167.
- 151. Tan, D.S.H. & Sim, T.-S.** 1996 Functional analysis of conserved histidine residues in *Cephalosporium acremonium* isopenicillin N synthase by site-directed mutagenesis. J. Biol. Chem. **271**: 889-894.
- 152. Tazebay, U.H., Sophianopoulou, V., Cubero, B., Scazzocchio, C. & Diallinas, G.** 1995 Post-transcriptional control and kinetic characterization of proline transport in germinating conidiospores of *Aspergillus nidulans*. FEMS Microbiol. Lett. **132**: 27-37.
- 153. Trail, F., Mahanti, N. & Linz, J.** 1995 Molecular biology of aflatoxin biosynthesis. Microbiology **141**: 755-765.
- 154. Trinci, A.P.J., Wiebe, M.G. & Robson, G.D.** 1994 The mycelium as an integrated entity. In Wessels, J.G.H. and Meinhardt, F. (Ed.). The Mycota, I: Growth, differentiation and sexuality. Springer-Verlag, Berlin, pp. 175-193.
- 155. Unkles, S.E., Hawker, K.L., Grieve, G., Campbell, E.I., Montague, P. & Kinghorn, J.R.** 1995 Erratum of "*crnA* encodes a nitrate transporter in *Aspergillus nidulans*". Proc. Nat. Acad. Sci. USA. **88**: (1991) 204-208" (Correction of sequence). Proc. Nat. Acad. Sci. USA. **92**: 3076.
- 156. Ushijima, S.** 1994 Improvement of industrial *Aspergillus* fungi. In *Aspergillus*. Biotechnology Handbooks 7, ed. Smith, J.E., Plenum Press, New York & London, pp. 41-64.
- 157. van den Hombergh, J.P.T.W., van de Vondervoort, P.J.I., van der Heijden, N.C.B.A. & Visser, J.** 1995 New protease mutants in *Aspergillus niger* result in strongly reduced in vitro degradation of target proteins; genetical and biochemical characterization of seven complementation groups. Curr. Genet. **28**: 299-308.
- 158. van de Rhee, M.D., Graça, P.M.A., Huizing, H.J. & Mooibroek, H.** 1996 Transformation of the cultivated mushroom, *Agaricus bisporus*, to hygromycin B resistance. Mol. Gen. Genet. **250**: 252-258.
- 159. van der Veen, P., Ruijter, G.J.G. & Visser, J.** 1995 An extreme *creA* mutation in *Aspergillus nidulans* has severe effects on D-glucose utilization. Microbiology **141**: 2301-2306.

- 160. van Nistelrooy, J.G.M., van den Broek, J.M., van Kan, J.A.L., van Gorcom, R.F.M. & de Waard, M.A.** 1996 Isolation and molecular characterisation of the gene encoding eburicol 14-demethylase (CYP51) from *Penicillium italicum*. Mol. Gen. Genet. **250**: 725-733.
- 161. Varga, J., Kesztyüs, K., Téren, J. & Ferenczy, L.** 1995 Allocation of random amplified polymorphic DNA markers and enzyme activities of *Aspergillus nidulans* and *Aspergillus tetrazonus* chromosomes. Ant. van Leeuwenhoek **68**: 245-251.
- 162. Verweij, P.E., Meis, J.F.G.M., van den Hurk, P., Zoll, J., Samson, R.A. & Melchers, W.J.G.** 1995 Phylogenetic relationships of five species of *Aspergillus* and related taxa as deduced by comparison of sequences of small subunit ribosomal RNA. J. Med. Vet. Mycol. **33**: 185-190.
- 163. Ward, M.P., Gimeno, C.J., Fink, G.R. & Garrett, S.** 1995 SOK2 may regulate cyclic AMP-dependent protein kinase-stimulated growth pseudohyphal development by repressing transcription. Mol. Cell. Biol. **15**: 6854-6863.
- 164. Willins, D.A., Xiang, X. & Morris, N.R.** 1995 An alpha tubulin mutation suppresses nuclear migration mutations in *Aspergillus nidulans*. Genetics **141**: 1287-1298.
- 165. Withers, J.M., Wiebe, M.G., Robson, G.D., Osborne, D., Turner, G. & Trinci, A.P.J.** 1995 Stability of recombinant protein production by *Penicillium chrysogenum* in prolonged chemostat culture. FEMS Microbiol. Lett. **133**: 245-251.
- 166. Witteveen, C.F.B. & Visser, J.** 1995 Polyol pools in *Aspergillus niger*. FEMS Microbiol. Lett. **134**: 57-62.
- 167. Wnendt, S., Ulbrich, N. & Stahl, U.** 1994 Molecular cloning, sequence analysis and expression of the gene encoding an antifungal-protein from *Aspergillus giganteus*. Curr. Genet. **25**: 519-523.
- 168. Xiang, X., Osmani, A.H., Osmani, S.A., Xin, M. & Morris, N.R.** 1995 *NudF*, a nuclear migration gene in *Aspergillus nidulans*, is similar to the human *LIS-1* gene required for neuronal migration. Mol. Biol. Cell **6**: 297-310.
- 169. Xiang, X., Roghi, C. & Morris, N.R.** 1995 Characterization and localization of the cytoplasmic dynein heavy chain in *Aspergillus nidulans*. Proc. Nat. Acad. Sci. USA **92**: 9890-9894.
- 170. Xiong, M., Chen, H.J., Prade, R.A., Wang, Y., Griffith, J., Timberlake, W.E. & Arnold, J.** 1996 On the consistency of a physical mapping method to reconstruct a chromosome *in vitro*. Genetics **142**: 267-284.
- 171. Ye, X.S., Xu, G., Pu, R.T., Fincher, R.R., Osmani, A.H. & Osmani, S.A.** 1995 Analysis of cell cycle regulation using *Aspergillus nidulans*. Can. J. Bot. **73** (Suppl. 1): S359-S363.

- 172. Yoon, J.H., Lee, B.J. & Kang, H.S.** 1995 The *Aspergillus uvsH* gene encodes a product homologous to yeast RAD18 and Neurospora UVS-2. *Mol. Gen. Genet.* **248**: 174-181.
- 173. Yoon, Y. & Oakley, B.R.** 1995 Purification and characterization of assembly-competent tubulin from *Aspergillus nidulans*. *Biochem.* **34**: 6373-6381.
- 174. Yoshino, S., Oishi, M., Moriyama, R., Kato, M. & Tsukagoshi, N.** 1995 Two family G xylanase genes from *Chaetomium gracile* and their expression in *Aspergillus nidulans*. *Curr. Genet.* **29**: 73-80.
- 175. Yu, J., Chang, P.-K., Payne, G.A., Cary, J.W., Bhatnagar, D. & Cleveland, T.E.** 1995 Comparison of the *omtA* genes encoding O-methyltransferases involved in aflatoxin biosynthesis from *Aspergillus parasiticus* and *A. flavus*. *Gene* **163**: 121-125.
- 176. Yu, J.-H. & Leonard, T.J.** 1995 Sterigmatocystin biosynthesis in *Aspergillus nidulans* requires a novel type I polyketide synthase. *J. Bacteriol.* **177**: 4792-4800.
- 177. Yu, J.-H., Butchko, R.A.E., Fernandez, M., Keller, N.P., Leonard, T.J. & Adams, T.H.** 1996 Conservation of structure and function of the aflatoxin regulatory gene *aflR* from *Aspergillus nidulans* and *A. flavus*. *Curr. Genet.* **29**: 549-555.

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^eExpression of heterologous genes in *Aspergillus*

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^sSequence or cloning

^tTransformation or selective marker

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