

NEUROSPORA BIBLIOGRAPHY

Every attempt has been made to insure that the citations appear exactly as they do in the original publication. Copies of the bibliography are available on Macintosh discs (EndNote Plus or MS Word). All additions and corrections should be brought to the attention of Dr. Joseph C. Schmit, Medical Biochemistry, Southern Illinois University at Carbondale, Carbondale, Illinois 62901. Telephone: (618) 453-6400.

[Links to author and keyword indexes will be found at the end of this file]

Aguilar, J. and R. Harding 1992 Revision of the proposed chemical structure of a compound accumulated in the growth medium of a white collar-2 mutant of *Neurospora crassa*. *Fungal Genet. Newslett.* 39:12.

Aguilar, J., R. Harding, J. Hrkach and B. Whitaker 1992 Accumulation of sordarial in the growth medium of the white collar-2 mutant of *Neurospora crassa*. *Plant Physiol.* 99 (Suppl.):97 (Abstr.).

Aronson, B. D., K. A. Johnson, Q. Liu and J. C. Dunlap 1992 Molecular analysis of the *Neurospora* clock: cloning and characterization of the frequency and period-4 genes. *Chronobiol. Int.* 9:231-9.

Asch, D. K., G. Frederick, J. A. Kinsey and D. D. Perkins 1992 Analysis of junction sequences resulting from integration at nonhomologous loci in *Neurospora crassa*. *Genetics* 130:737-748.

Azevedo, J. E., U. Nehls, C. Eckerskorn, H. Heinrich, H. Rothe, H. Weiss and S. Werner 1992a Primary structure and mitochondrial import in vitro of the 20.9 kDa subunit of complex I from *Neurospora crassa*. *Biochem. J.* 288:29-34.

Azevedo, J. E., M. Tropschug and S. Werner 1992b Primary structure and in vitro expression of the *N. crassa* phosphoglycerate kinase. *DNA Sequence* 2:265-7.

Baima, S., A. Carattoli, G. Macino and G. Morelli 1992 Photoinduction of albino-3 gene expression in *Neurospora crassa* conidia. *J. Photochem. Photobiol. B Biol.* 15:233-238.

Barja, F., M. Jaramillo-Maranon, C. Rossier and G. Turian 1992 Differential effects of griseofulvin and benomyl on morphology and nuclear distribution during the germination of *Neurospora crassa* macroconidia. *Mycol. Res.* 96:147-150.

Barja, F. and G. Turian 1992 Chlorotetracycline fluorescent probing of Ca²⁺ sequestration in mitochondria fronting the acidic tip of germ tubes outgrowing from conidia of *Neurospora crassa*. *Biomed. Lett.* 47:35-38.

Barry, E. G. 1992 A combination inversion and translocation in *Neurospora crassa* with inviable deficiency progeny that can be rescued in heterokaryons. *Genetics* 132:403-412.

- Basu, J., M. Kundu and P. Chakrabarti 1992 Purification of a phosphatidylinositol/phosphatidylcholine transfer protein from *Neurospora crassa*. *Biochim. Biophys. Acta* 1126:286-290.
- Bechmann, G., H. Weiss and P. R. Rich 1992 Non-linear inhibition curves for tight-binding inhibitors of dimeric ubiquinol-cytochrome c oxidoreductases. Evidence for rapid inhibitor mobility. *Eur. J. Biochem.* 208:315-325.
- Becker, K., B. Guiard, J. Rassow, T. Sollner and N. Pfanner 1992 Targeting of a chemically pure preprotein to mitochondria does not require the addition of a cytosolic signal recognition factor. *J. Biol. Chem.* 267:5637-5643.
- Bell-Pedersen, D., J. C. Dunlap and J. J. Loros 1992 The *Neurospora* circadian clock-controlled gene, *cgc-2*, is allelic to *eas* and encodes a fungal hydrophobin required for formation of the conidial rodlet layer. *Genes Devel.* 6:2382-2394.
- Berbee, M. L. and J. W. Taylor 1992 Two ascomycete classes based on fruiting-body ribosomal DNA sequence. *Mol. Biol. Evol.* 9:278-284.
- Bhattacharjee, J. K. 1992 Evolution of alpha amino adipate pathway in the fungi. In: R. P. Mortlock (ed.), *The Evolution Of Metabolic Function*. CRC Press, Inc., Boca Raton, Florida, USA.
- Bowman, B. J., W. J. Dschida and E. J. Bowman 1992a Vacuolar ATPase of *Neurospora crassa*: electron microscopy, gene characterization and gene inactivation/mutation. *J. Exp. Biol.* 172:57-66.
- Bowman, B. J., N. Vazquez-Laslop and E. J. Bowman 1992b The vacuolar ATPase of *Neurospora crassa*. *J. Bioenerg. Biomembr.* 24:361-370.
- Bowman, E. J. and T. E. Knock 1992 Structures of the genes encoding the a and b subunits of the *Neurospora crassa* mitochondrial ATP synthase. *Gene* 114:157-163.
- Brennicke, A. 1992 Gene translocation between organelles. *Curr. Biol.* 2:46-47.
- Britton, K. L., P. J. Baker, D. W. Rice and T. J. Stillman 1992 Structural relationship between the hexameric and tetrameric family of glutamate dehydrogenases. *Eur. J. Biochem.* 209:851-859.
- Brody, S. 1992 Circadian rhythms in *Neurospora crassa*: the role of mitochondria. *Chronobiol. Int.* 9:222-230.
- Burge, C., A. M. Campbell and S. Karlin 1992 Over- and under-representation of short oligonucleotides in DNA sequences. *Proc. Natl. Acad. Sci. USA* 89:1358-1362.

- Burns, R. G. 1992 Analysis of the colchicine-binding site of beta-tubulin. *FEBS Lett.* 297:205-208.
- Butler, D. K. 1992 Ribosomal DNA is a site of chromosome breakage in aneuploid strains of *Neurospora*. *Genetics* 131:581-592.
- Case, M. E., R. F. Geever and D. K. Asch 1992 Use of gene replacement transformation to elucidate gene function in the qa gene cluster of *Neurospora crassa*. *Genetics* 130:729-736.
- Ciufetti, L. M., O. C. Yoder and B. G. Turgeon 1992 A microbiological assay for host-specific fungal polyketide toxins. *Fungal Genet. Newslett.* 39:18-19.
- Connerton, I. F., W. McCullough and J. R. Fincham 1992 An acetate-sensitive mutant of *Neurospora crassa* deficient in acetyl-CoA hydrolase. *J. Gen. Microbiol.* 138:1797-1800.
- Corzo, A. and D. Sanders 1992 Inhibition of Ca²⁺ uptake in *Neurospora crassa* by La³⁺: a mechanistic study. *J. Gen. Microbiol.* 138:1791-1795.
- Court, D. A. and H. Bertrand 1992 Genetic organization and structural features of maranhar, a senescence-inducing linear mitochondrial plasmid of *Neurospora crassa*. *Curr. Genet.* 22:385-397.
- Crawford, J. M., R. F. Geever, D. K. Asch and M. E. Case 1992 Sequence and characterization of the met-7 gene of *Neurospora crassa*. *Gene* 111:265-266.
- Cyert, M. S. 1992 Immunosuppressants hit the target. *Curr. Biol.* 2:18-20.
- de Serres, F. J. 1992a Characteristics of spontaneous and induced specific-locus mutation in the ad-3 region of *Neurospora crassa*: utilization in genetic risk assessment. *Environ. Mol. Mutagen.* 20:246-259.
- de Serres, F. J. 1992b Development of a specific-locus assay in the ad-3 region of two-component heterokaryons of *Neurospora*: a review. *Environ. Mol. Mutagen.* 20:225-245.
- de Serres, F. J., L. K. Overton and B. M. Sadler 1992a X-ray-induced specific-locus mutations in the ad-3 region of two-component heterokaryons of *Neurospora crassa*. X. Heterozygous effects of multilocus deletion mutations of genotype ad-3A or ad-3B. *Mutation Research* 267:105-124.
- de Serres, F. J., L. K. Overton and B. M. Sadler 1992b X-ray-induced specific-locus mutations in the ad-3 region of two-component heterokaryons of *Neurospora crassa*. XI. Heterozygous effects of gene/point mutations of genotype ad-3A or ad-3B. *Mutation Research* 269:149-169.
- Debuchy, R. and E. Coppin 1992 The mating types of *Podospora anserina*: functional analysis and sequence of the fertilization domains. *Mol. Gen. Genet.* 233:113-121.

- Dickman, M. B. and J. F. Leslie 1992 The regulatory gene nit-2 of *Neurospora crassa* complements a nnu mutant of *Gibberella zeae* (*Fusarium graminearum*). *Mol. Gen. Genet.* 235:458-462.
- Dschida, W. J. and B. J. Bowman 1992 Structure of the vacuolar ATPase from *Neurospora crassa* as determined by electron microscopy. *J. Biol. Chem.* 267:18783-18789.
- Edmunds, L. N. J., I. A. Carre, C. Tamponnet and J. Tong 1992 The role of ions and second messengers in circadian clock. *Chronobiol. Int.* 9:180-200.
- Fewson, C. A. 1992 Microbial metabolism of mandelate occurrence function evolution of mandelate dehydrogenases and other mandelate pathway. In: R. P. Mortlock (ed.), *The Evolution of Metabolic Function*. CRC Press, Inc., Boca Raton, Florida, USA.
- Fincham, J. R. S. 1992 Distinguishing self from non-self. *Curr. Biol.* 2:377-378.
- Fujimura, M., T. Kamakuma, H. Inoue, S. Inoue and I. Yamaguchi 1992 Sensitivity of *Neurospora crassa* to benzimidazoles and N-pehylcaramattes: Effect of amino acid substitutions at position 198 in beta-tubulin. *Pest. Biochem. Physiol.* 44:165-173.
- Fujimura, M., K. Oeda, H. Inoue and T. Kato 1992 A single amino-acid substitution in the beta-tubulin gene of *Neurospora* confers both carbendazim resistance and diethofencarb sensitivity. *Curr. Genet.* 21:399-404.
- Gainey, L. D. S., I. F. Connerton, E. H. Lewis, G. Turner and D. J. Ballance 1992 Characterization of the glyoxysomal isocitrate lyase genes of *Aspergillus nidulans* (acuD) and *Neurospora crassa* (acu-3). *Curr. Genet.* 21:43-47.
- Gavel, Y. and G. von Heijne 1992 The distribution of charged amino acids in mitochondrial inner-membrane proteins suggests different modes of membrane integration for nuclear and mitochondrially encoded proteins. *Eur. J. Biochem.* 205:1207-1215.
- Gebauer, G., A. Kallies and L. Rensing 1992 Effects of light and temperature signals on the inositol trisphosphate and cAMP levels in *Neurospora crassa*. *J. Interdiscipl. Cycle Res.* 23:219-220.
- Gietl, C. 1992 Malate dehydrogenase isoenzymes: cellular locations and role in the flow of metabolites between the cytoplasm and cell organelles. *Biochim. Biophys. Acta* 1100:217-234.
- Glass, N. L. and G. A. Kuldau 1992 Mating type and vegetative incompatibility in filamentous ascomycetes. *Annu. Rev. Phytopath.* 30:201-224.
- Glass, N. L. and L. Lee 1992 Isolation of *Neurospora crassa* A mating type mutants by repeat induced point (RIP) mutation. *Genetics* 132:125-133.

- Goosen, T., C. J. Bos and H. Van Den Broek 1992 Transformation and gene manipulation in filamentous fungi, overview. In: D. K. Arora, R. P. Elander and K. G. Mukerji (ed.), Handbook of Applied Mycology.
- Griffiths, A. J. F., Y. Xiao, R. Barton and C. Myers 1992 Suppression of cytoplasmic senescence in *Neurospora*. *Curr. Genet.* 21:479-484.
- Grones, J. 1991 Effect of activators and inhibitors on the activity of mitochondrial DNA polymerase. *Folia Microbiol.* 36:229-33.
- Guo, Q. and A. M. Lambowitz 1992 A tyrosyl-tRNA synthetase binds specifically to the group I intron catalytic core. *Genes Devel.* 6:1357-1372.
- Guo, X.-W. and C. A. Mannella 1992 Classification of projection images of crystalline arrays of the mitochondrial, voltage-dependent anion-selective channel embedded in aurothioglucose. *Biophys. J.* 63:418-427.
- Haedo, S. D., M. R. Mautino and A. L. Rosa 1992a Non-Oak Ridge RFLP patterns in the *Neurospora crassa* multicent-2 strains. *Fungal Genet. Newslett.* 39:23.
- Haedo, S. D., E. D. Temporini, M. E. Alvarez, H. J. F. Maccioni and A. L. Rosa 1992b Molecular cloning of a gene (*cfp*) encoding the cytoplasmic filament protein P59Nc and its genetic relationship to the snowflake locus of *Neurospora crassa*. *Genetics* 131:575-580.
- Han, J. S. 1992 Mutagenic activity and specificity of hydrogen peroxide in. *Korean J. Genet.* 14:1-12.
- Han, S. W., W. J. Maccheroni and A. Rossi 1992 The *pho-2a* mutant of *Neurospora crassa* which is deficient in Pi repressible alkaline phosphatase (EC 3.1.3.1) is also defective in Pi repressible acid phosphatase (EC 3.1.3.2). *Braz. J. Med. Biol. Res.* 25:441-447.
- Hasunuma, K. and K. Nishikawa 1992 An NTP-binding protein that cross-reacts with a Ras-specific antibody in the mycelia of *Neurospora crassa*. *Plant Cell. Physiol.* 33:889-896.
- Heinrich, H., J. E. Azevedo and S. Werner 1992 Characterization of the 9.5-kDa ubiquinone-binding protein of NADH:ubiquinone oxidoreductase (complex I) from *Neurospora crassa*. *Biochemistry* 31:11420-11424.
- Heinrich, H. and S. Werner 1992 Identification of the ubiquinone-binding site of NADH:ubiquinone oxidoreductase (complex I) from *Neurospora crassa*. *Biochemistry* 31:11413-11419.
- Heintz, K., K. Palme, T. Diefenthal and V. Russo 1992 The *Ncyp1* gene from *Neurospora crassa* is located on chromosome 2, molecular cloning and structural analysis. *Mol. Gen. Genet.* 235:413-421.

Hill, E. P., V. N. Plesofsky, A. Paulson and R. Brambl 1992 Respiration and gene expression in germinating ascospores of *Neurospora tetrasperma*. *FEMS Microbiol. Lett.* 69:111-5.

Hudspeth, M. E. S. 1992 The fungal mitochondrial genome a broader perspective. In: D. K. Arora, R. P. Elander and K. G. Mukerji (ed.), *Handbook of Applied Mycology*.

Isaya, G., F. Kalousek and L. E. Rosenberg 1992 Amino-terminal octapeptides function as recognition signals for the mitochondrial intermediate peptidase. *J. Biol. Chem.* 267:7904-7910.

Jacobson, D. J. 1992a Control of mating type heterokaryon incompatibility by the *tol* gene in *Neurospora crassa* and *N. tetrasperma*. *Genome* 35:347-353.

Jacobson, D. J. 1992b New round spore mutations in *Neurospora crassa* accompanying changes in a duplication closely linked to the R locus. *Fungal Genet. Newslett.* 39:24-27.

Jarai, G., H.-N. Truong, F. Daniel-Vedele and G. A. Marzluf 1992 NIT2, the nitrogen regulatory protein of *Neurospora crassa*, binds upstream of *nia*, the tomato nitrate reductase gene, in vitro. *Curr. Genet.* 21:37-41.

Johann, S. V., J. J. Gibbons and B. O'Hara 1992 GLVR1, a receptor for gibbon ape leukemia virus, is homologous to a phosphate permease of *Neurospora crassa* and is expressed at high levels in the brain and thymus. *J. Virol.* 66:1635-1640.

Jordi, W., C. Hergersberg and B. de Kruijff 1992 Bilayer-penetrating properties enable apocytochrome c to follow a special import pathway into mitochondria. *Eur. J. Biochem.* 204:841-846.

Kallies, A., S. Mohsenzadeh and L. Rensing 1992 Effects of light on protein secretion in *Neurospora crassa*. *Arch. Microbiol.* 157:104-106.

Kamper, U., U. Kuck, A. D. Cherniack and A. M. Lambowitz 1992 The mitochondrial tyrosyl-tRNA synthetase of *Podospora anserina* is a bifunctional enzyme active in protein synthesis and RNA splicing. *Mol. Cell. Biol.* 12:499-511.

Kanaan, M. N., Y.-H. Fu and G. A. Marzluf 1992 The DNA-binding domain of the Cys-3 regulatory protein of *Neurospora crassa* is bipartite. *Biochemistry* 31:3197-3203.

Kinnaird, J. H., D. F. Revell, I. F. Connerton, I. Hasleham and J. R. S. Fincham 1992 Alternative modes of mRNA processing in a 3' splice site mutant of *Neurospora crassa*. *Curr. Genet.* 22:37-40.

Kneer, R., T. M. Kutchan, A. Hochberger and M. H. Zenk 1992 *Saccharomyces cerevisiae* and *Neurospora crassa* contain heavy metal sequestering phytochelatin. *Arch. Microbiol.* 157:305-310.

Kohler, W. and L. Rensing 1992 Light and the recovery from heat shock induce the synthesis of 38 kDa mitochondrial proteins in *Neurospora crassa*. *Arch. Microbiol.* 158:5-8.

Kole, H. K., D. R. Smith and J. Lenard 1992 Characterization and partial purification of an insulinase from *Neurospora crassa*. *Arch. Biochem. Biophys.* 297:199-204.

Kubicek, P. E. M. and C. P. Kubicek 1992 Production and biosynthesis of amino acids by fungi. In: D. K. Arora, R. P. Elander and K. G. Mukerji (ed.), *Handbook of Applied Mycology*.

Kubis, H. P., I. Balzer and R. Hardeland 1992 1,2-Dihydro-4-hydroxy-6-methoxy-N-methylquinoline in circadian rhythms of NAD⁺ kinase and NADP⁺ autoreduction in *Neurospora crassa* and bioluminescence in *Gonyaulax polydera*. *Comp. Biochem. Physiol. C. Comp. Pharmacol. Toxicol.* 102:97-101.

Kumar, C. S., K. S. Sastry and P. M. Mohan 1992 Use of wild type and nickel resistant *Neurospora crassa* for the removal of Ni²⁺ from aqueous medium. *Biotechnol. Lett.* 14:1099-1102.

Lakin, T. P. 1992 Phase resetting of the *Neurospora crassa* circadian oscillator: effects of inositol depletion on sensitivity to light. *J. Biol. Rhythms* 7:227-239.

Laufer-Lutum, C., I. Hrmann and G. Lysek 1992 Continuous shortening of the circadian conidiation rhythm in *Neurospora crassa* in short light-dark cycles with enhanced light intensities. *J. Interdiscipl. Cycle Res.* 23:1-8.

Lauter, F.-R., V. E. A. Russo and C. Yanofsky 1992 Developmental and light regulation of eas, the structural gene for the rodlet protein of *Neurospora*. *Genes Devel.* 6:2373-2381.

Lee, F.-J. S. and J. Moss 1991 Cloning of a *Saccharomyces cerevisiae* gene encoding a protein homologous to allantoicase of *Neurospora crassa*. *Yeast* 7:993-995.

Lerch, K. 1991 Purification of *Neurospora crassa* copper-metallothionein. *Methods Enzymol.* 205:278-283.

Lill, R., R. A. Stuart, M. E. Drygas, F. E. Nargang and W. Neupert 1992 Import of cytochrome c heme lyase into mitochondria: a novel pathway into the intermembrane space. *EMBO J.* 11:449-456.

Lima, M. C. A., D. L. B. Costa, A. J. S. Goes, S. L. Galdino, I. R. Pitta and D. C. Luu 1992 Synthesis and antimicrobial activity of chlorobenzyl imidazolidinediones and substituted thiazolidinediones. *Pharmazie* 47:182-184.

Lin, W. S. and M. Kapoor 1992 Increase in superoxide production by heat-shocked cells of *Neurospora crassa*, demonstrated by a fluorometric assay. *Int. J. Biochem.* 24:1081-1086.

- Liu, M. Y. and M. Colombini 1992 A soluble mitochondrial protein increases the voltage dependence of the mitochondrial channel, VDAC. *J. Bioenerg. Biomembr.* 24:41-46.
- Maleszka, R. 1992 Electrophoretic profiles of mitochondrial plasmids in *Neurospora* suggest they replicate by a rolling circle mechanism. *Biochem. Biophys. Res. Com.* 186:1669-1673.
- Mannella, C. A. 1992 The 'ins' and 'outs' of mitochondrial membrane channels. *TIBS (Trends Biochem. Sci.)* 17:315-320.
- Mannella, C. A., M. Forte and M. Colombini 1992a Toward the molecular structure of the mitochondrial channel, VDAC. *J. Bioenerg. Biomembr.* 24:7-19.
- Mannella, C. A., X. W. Guo and J. Dias 1992b Binding of a synthetic targeting peptide to a mitochondrial channel protein. *J. Bioenerg. Biomembr.* 24:55-61.
- Martin, J., A. L. Horwich and F. U. Hartl 1992 Prevention of protein denaturation under heat stress by the chaperonin Hsp60. *Science* 258:995-998.
- Mathews-Roth, M. M. 1992 Techniques for studying photoprotective function of carotenoid pigments. *Methods Enzymol.* 213:479-484.
- McClung, C. R., C. R. Davis, K. M. Page and S. A. Denome 1992 Characterization of the formate (for) locus, which encodes the cytosolic serine hydroxymethyltransferase of *Neurospora crassa*. *Mol. Cell. Biol.* 12:1412-1421.
- Metzenberg, R. L. and J. Grotelueschen 1992a Restriction polymorphism maps of *Neurospora crassa*: update. *Fungal Genet. Newslett.* 39:50-59.
- Metzenberg, R. L. and J. S. Grotelueschen 1992b Disruption of essential genes in *Neurospora* by RIP. *Fungal Genet. Newslett.* 39:37-49.
- Mohr, G., A. Zhang, J. A. Gianelos, M. Belfort and A. M. Lambowitz 1992 The *Neurospora* CYT-18 protein suppresses defects in the phage T4 td intron by stabilizing the catalytically active structure of the intron core. *Cell* 69:483-94.
- Monroy, A. F. and R. Brambl 1992 Expression of mitochondrial and nuclear genes for mitochondrial proteins in germinating conidiospores of *Neurospora*. *Plant Phys.* 99 (Suppl.):147 (Abstr.).
- Moo, Y. M., Y. Chisti and D. Vlach 1992 Fermentative conversion of cellulosic substrates by *Neurospora sitophila*. *Biotechnol. Lett.* 14:863-868.
- Munkres, K. D. 1992 Selection and analysis of superoxide dismutase mutants of *Neurospora*. *Free Rad. Biol. Med.* 13:305-18.

- Nargang, F. E., S. Pande, J. C. Kennell, R. A. Akins and A. M. Lambowitz 1992 Evidence that a 1.6 kilobase region of *Neurospora* mtDNA was derived by insertion of part of the LaBelle mitochondrial plasmid. *Nucleic Acids Res.* 20:1101-1108.
- Nehls, U., T. Friedrich, A. Schmiede, T. Ohnishi and H. Weiss 1992 Characterization of assembly intermediates of NADH:ubiquinone oxidoreductase (complex I) accumulated in *Neurospora* mitochondria by gene disruption. *J. Mol. Biol.* 227:1032-1042.
- Nelson, M. A. and R. L. Metzenberg 1992a A qa-2+-pGEM vector for *Neurospora* transformations. *Fungal Genet. Newslett.* 39:59-60.
- Nelson, M. A. and R. L. Metzenberg 1992b Sexual development genes of *Neurospora crassa*. *Genetics* 132:149-162.
- Ner, S. S. 1992 DNA-binding proteins hmgs everywhere. *Curr. Biol.* 2:208-210.
- Ohnishi, T., G. Cornelius and H. Nakashima 1992 A mutant of *Neurospora crassa* that has a long lag phase in low-calcium medium. *J. Gen. Microbiol.* 138:1573-1578.
- Olguntimein, G., D. Vlach and Y. M. Moo 1992 Production of cellulolytic enzymes by *Neurospora sitophila* grown on cellulosic materials. *Bioresour. Technol.* 39:277-284.
- Owen, N. E., P. T. Chaure and I. F. Connerton 1992 Isolation and characterization of new fluoroacetate resistant/acetate non-utilizing mutants of *Neurospora crassa*. *J. Gen. Microbiol.* 138:2599-2608.
- Paietta, J. V. 1992 Production of the CYS3 regulator, a bZIP DNA-binding protein, is sufficient to induce sulfur gene expression in *Neurospora crassa*. *Mol. Cell. Biol.* 12:1568-1577.
- Pandit, N. N. and V. E. A. Russo 1992 Reversible inactivation of a foreign gene, hph, during the asexual cycle in *Neurospora crassa* transformants. *Mol. Gen. Genet.* 234:412-422.
- Perkins, D. D. 1992a NEUROSPORA CRASSA GENETIC MAPS, June, 1992. *Fungal Genet Newslett* 39:61-70.
- Perkins, D. D. 1992b *Neurospora*: The organism behind the molecular revolution. *Genetics* 130:687-701.
- Perkins, D. D. and M. Bojko 1992 The basis of decreased recombination in certain outcrosses of *Neurospora crassa*. *Genome* 35:503-509.
- Plesofsky, V. N., A. Paulson, E. P. Hill, L. Glaser and R. Brambl 1992 Heat shock gene expression in germinating ascospores of *Neurospora tetrasperma*. *FEMS Microbiol. Lett.* 69:117-122.

- Poznanski, J., P. Pawlowski and M. Fikus 1992 Bioelectrorheological model of the cell. 3. Viscoelastic shear deformation of the membrane. *Biophys. J.* 61:612-620.
- Raju, N. B. 1992a Functional heterothallism resulting from homokaryotic conidia and ascospores in *Neurospora tetrasperma*. *Mycol. Res.* 96:103-116.
- Raju, N. B. 1992b Genetic control of the sexual cycle in *Neurospora*. *Mycol. Res.* 96:241-262.
- Raju, N. B. and J. F. Leslie 1992 Cytology of recessive sexual-phase mutants from wild strains of *Neurospora crassa*. *Genome* 35:815-826.
- Rao, U. S., D. D. Bauzon and G. A. Scarborough 1992 Cytoplasmic location of amino acids 359-440 of the *Neurospora crassa* plasma membrane H⁺-ATPase. *Biochim. Biophys. Acta* 1108:153-158.
- Reimber, H. and H. Ninnemann 1992 Effect of light on conidiation of nit and lis mutants of *Neurospora crassa* grown on different nitrogen sources. *Fungal Genet. Newslett.* 39:71-72.
- Rohe, M., J. Schröder, P. Tudzynski and F. Meinhardt 1992 Phylogenetic relationships of linear, protein-primed replicating genomes. *Curr. Genet.* 21:173-176.
- Romano, N. and G. Macino 1992 Quelling: transient inactivation of gene expression in *Neurospora crassa* by transformation with homologous sequences. *Mol. Microbiol.* 6:3343-3353.
- Rossier, C., G. Brazil and A. Utz-Pugin 1992 Mitotic instability in benomyl-resistant transformants of a fluffy strain of *Neurospora crassa*. *Fungal Genet. Newslett.* 39:73-75.
- Roychowdhury, H. S., T. J. MacAlister, J. W. Costerton and M. Kapoor 1992a Induction and intracellular localization of the 80-kilodalton heat-shock protein of *Neurospora crassa*. *Biochem. Cell. Biol.* 70:1347-1355.
- Roychowdhury, H. S., D. Wong and M. Kapoor 1992b hsp80 of *Neurospora crassa*: cDNA cloning, gene mapping, and studies of mRNA accumulation under stress. *Biochem. Cell. Biol.* 70:1356-1367.
- Royer, J. C. and C. T. Yamashiro 1992 Generation of transformable spheroplasts from mycelia, macroconidia, microconidia and germinating ascospores of *Neurospora crassa*. *Fungal Genet. Newslett.* 39:76-79.
- Rubidge, T. 1992 The structure and function of plasmids in filamentous fungi. In: D. K. Arora, R. P. Elander and K. G. Mukerji (ed.), *Handbook of Applied Mycology*.
- Santosa, S. and H. Kuwana 1992 Isolation and characterization of a new acetate-requiring mutant strain, ace-9, of *Neurospora crassa*. *Japanese J. Genetics* 67:85-95.

Schilling, B., R. M. Linden, U. Kupper and K. Lerch 1992 Expression of *Neurospora crassa* laccase under the control of the copper-inducible metallothionein-promoter. *Curr. Genet.* 22:197-203.

Schmidt, M., T. Friedrich, J. Wallrath, T. Ohnishi and H. Weiss 1992 Accumulation of the preassembled membrane arm of NADH:ubiquinone oxidoreductase in mitochondria of manganese-limited grown *Neurospora crassa*. *FEBS Lett.* 313:8-11.

Shambuyi, M., L. R. Beuchat, Y. C. Hung and T. Nakayama 1992 Evaluation of substrates and storage conditions for preparing and maintaining starter cultures for tempeh fermentation. *Int. J. Food Microbiol.* 15:77-85.

Shoun, H., D.-H. Kim, H. Uchiyama and J. Sugiyama 1992 Denitrification by fungi. *FEMS Microbiol. Lett.* 94:277-282.

Sista, H. and B. Bowman 1992 Characterization of the *ilv-2* gene from *Neurospora crassa* encoding alpha-keto-beta-hydroxylacyl reductoisomerase. *Gene* 120:115-118.

Sokolovsky, V. Y., F.-R. Lauter, B. Meller-Rber, M. Ricci, T. J. Schmidhauser and V. E. A. Russo 1992 Nitrogen regulation of blue light-inducible genes in *Neurospora crassa*. *J. Gen. Microbiol.* 138:2045-2049.

Sollner, T., J. Rassow, M. Wiedmann, J. Schlossmann, P. Keil, W. Neupert and N. Pfanner 1992 Mapping of the protein import machinery in the mitochondrial outer membrane by crosslinking of translocation intermediates. *Nature* 355:84-87.

Sprague, K. U. 1992 New twists in class iii transcription. *Curr. Opin. Cell. Biol.* 4:475-479.

Springer, M. L., K. M. Hager, C. Garrett-Engle and C. Yanofsky 1992 Timing of synthesis and cellular localization of two conidiation-specific proteins of *Neurospora crassa*. *Develop. Biol.* 152:255-262.

Springer, M. L. and C. Yanofsky 1992 Expression of *con* genes along the three sporulation pathways of *Neurospora crassa*. *Genes Devel.* 6:1052-1057.

Sussman, A. S. 1992 Procedure for mass-production of *Neurospora tetrasperma* ascospores. *Fungal Genet. Newslett.* 39:84-85.

Terenzi, H., H. F. Terenzi and J. A. Jorge 1992 Effect of cyclic AMP on invertase activity in *Neurospora crassa*. *J. Gen. Microbiol.* 138:2433-2439.

Turcq, B., K. F. Dobinson, N. Serizawa and A. M. Lambowitz 1992 A protein required for RNA processing and splicing in *Neurospora* mitochondria is related to gene products involved in cell cycle protein phosphatase functions. *Proc. Natl. Acad. Sci. USA* 89:1676-1680.

Turian, G., F. Barja, Caesar and T. T. Ton 1992 Nucleolar dense granules in cytochalasin-treated conidia of *Neurospora crassa*. *Cell. Biol. Int. Rep.* 16:1265-1266.

Turner, B. C. 1992 Identification of the fragrant strain ATCC 46892 as *Neurospora sitophila*. *Fungal Genet. Newslett.* 39:89.

Vassilev, A. O., N. Plesofsky-Vig and R. Brambl 1992 Isolation, partial amino acid sequence, and cellular distribution of heat-shock protein hsp98 from *Neurospora crassa*. *Biochim. Biophys. Acta* 1156:1-6.

Vierula, P. J. and H. Bertrand 1992 A deletion derivative of the kalilo senescence plasmid forms hairpin and duplex DNA structures in the mitochondria of *Neurospora*. *Mol. Gen. Genet.* 234:361-368.

Vigers, A. J., S. Wiedemann, W. K. Roberts, M. Legrand, C. P. Selitrennikoff and B. Fritig 1992 Thaumatin-like pathogenesis-related proteins are antifungal. *Plant Sci.* 83:155-161.

Wach, A., A. Schlessler and A. Goffeau 1992 An alignment of 17 deduced protein sequences from plant, fungi, and ciliate H⁺-ATPase genes. *J. Bioenerg. Biomembr.* 24:309-317.

Wang, H., J. C. Kennell, M. T. R. Kuiper, J. R. Sabourin, R. Saldanha and A. M. Lambowitz 1992 The Mauriceville plasmid of *Neurospora crassa*: characterization of a novel reverse transcriptase that begins cDNA synthesis at the 3' end of template RNA. *Mol. Cell. Biol.* 12:5131-5144.

Watanabe, T., T. Sugiyama, K. Chino, T. Suzuki, S. Wakabayashi, H. Hayashi, R. Itami, J. Shima and K. Izaki 1992 New polyenic antibiotics active against gram-positive and gram-negative bacteria. VIII. Construction of synthetic medium for production of mono-chlorocongeners of enacyloxins. *J. Antibiotics* 45:476-484.

Weidner, U., U. Nehls, R. Schneider, W. Fecke, H. Leif, A. Schmiede, T. Friedrich, R. Zensen, U. Schulte, T. Ohnishi and H. Weiss 1992 Molecular genetic studies of complex I in *Neurospora crassa*, *Aspergillus niger* and *Escherichia coli*. *Biochim. Biophys. Acta* 1101:177-180.

Wienhues, U. and W. Neupert 1992 Protein translocation across mitochondrial membranes. *BioEssays* 14:17-23.

Wilkins, M. B. 1992 Tansley review No. 37 Circadian rhythms: their origin and control. *New Phytol.* 121:347-375.

Williams, L. J., G. R. Barnett, J. L. Ristow, J. Pitkin, M. Perriere and R. H. Davis 1992 Ornithine decarboxylase gene of *Neurospora crassa*: isolation, sequence, and polyamine-mediated regulation of its mRNA. *Mol. Cell. Biol.* 12:347-359.

Wilson, C. H., L. S. Sajani and P. Maruthi Mohan 1992 Location of a mutant resistant to cobalt and nickel in LG IIIIR of *Neurospora crassa*. *Fungal Genet. News.* 39:89.

- Woodward, J. R., A. Radford, L. Rodriguez and J. Aguado 1992 Immobilization of beta glucosidase from different sources on nylon tube. *Acta Biotechnol.* 12:357-364.
- Yamashiro, C. T., O. Yarden and C. Yanofsky 1992 A dominant selectable marker that is meiotically stable in *Neurospora crassa*: The *amdS* gene of *Aspergillus nidulans*. *Mol. Gen. Genet.* 236:121-124.
- Yarden, O., M. Plamann, D. J. Ebbole and C. Yanofsky 1992 *cot-1*, a gene required for hyphal elongation in *Neurospora crassa*, encodes a protein kinase. *EMBO J.* 11:2159-2166.
- Yassin, S. and A. Wheals 1992 *Neurospora* species in bakeries. *J. Appl. Bacteriol.* 72:377-380.
- Yu, Y. G. and R. L. Weiss 1992 Arginine transport in mitochondria of *Neurospora crassa*. *J. Biol. Chem.* 267:15491-15495.
- Yuan, G.-F. and G. A. Marzluf 1992a Molecular characterization of mutations of *nit-4*, the pathway-specific regulatory gene which controls nitrate assimilation in *Neurospora crassa*. *Mol. Microbiol.* 6:67-73.
- Yuan, G.-F. and G. A. Marzluf 1992b Transformants of *Neurospora crassa* with the *nit-4* nitrogen regulatory gene: copy number, growth rate and enzyme activity. *Curr. Genet.* 22:205-211.
- Zensen, R., H. Husmann, R. Schneider, T. Peine and H. Weiss 1992 De novo synthesis and desaturation of fatty acids at the mitochondrial acyl-carrier protein, a subunit of NADH:ubiquinone oxidoreductase in *Neurospora crassa*. *FEBS Lett.* 310:179-181.
- Zoeger, D., C. Scholle, A. Schrder-Lorenz, D. Techel and L. Rensing 1992 Some starvation-induced proteins in *Neurospora crassa* are related to glucose-regulated proteins. *Exp. Mycol.* 16:138-145.

CO-AUTHOR CROSS INDEX

Aguado, J. see Woodward, J. R.
Akins, R. A. see Nargang, F. E.
Alvarez, M. E. see Haedo, S. D.
Asch, D. K. see Crawford, J. M.
Asch, D. K. see Case, M. E.
Azevedo, J. E. see Heinrich, H.
Baker, P. J. see Britton, K. L.
Ballance, D. J. see Gainey, L. D. S.
Balzer, I. see Kubis, H. P.
Barja, F. see Turian, G.
Barnett, G. R. see Williams, L. J.
Barton, R. see Griffiths, A. J. F.
Bauzon, D. D. see Rao, U. S.
Belfort, M. see Mohr, G.
Bertrand, H. see Court, D. A.
Bertrand, H. see Vierula, P. J.
Beuchat, L. R. see Shambuyi, M.
Bojko, M. see Perkins, D. D.
Bos, C. J. see Goosen, T.
Bowman, B. J. see Dschida, W. J.
Bowman, B. see Sista, H.
Bowman, E. J. see Bowman, B. J.
Brambl, R. see Hill, E. P.
Brambl, R. see Monroy, A. F.
Brambl, R. see Plesofsky, V. N.
Brambl, R. see Vassilev, A. O.
Brazil, G. see Rossier, C.
Caesar, Ton, T. T. see Turian, G.
Campbell, A. M. see Burge, C.
Carattoli, A. see Baima, S.
Carre, I. A. see Edmunds, L. N. J.
Case, M. E. see Crawford, J. M.
Chakrabarti, P. see Basu, J.
Chaure, P. T. see Owen, N. E.
Cherniack, A. D. see Kamper, U.
Chino, K. see Watanabe, T.
Chisti, Y. see Moo, Y. M.
Colombini, M. see Liu, M. Y.
Colombini, M. see Mannella, C. A.
Connerton, I. F. see Gainey, L. D. S.
Connerton, I. F. see Kinnaird, J. H.
Connerton, I. F. see Owen, N. E.
Coppin, E. see Debuchy, R.
Cornelius, G. see Ohnishi, T.
Costa, D. L. B. see Lima, M. C. A.
Costerton, J. W. see Roychowdhury, H. S.
Daniel-Vedele, F. see Jarai, G.
Davis, C. R. see McClung, C. R.
Davis, R. H. see Williams, L. J.
de Kruijff, B. see Jordi, W.
Denome, S. A. see McClung, C. R.

Dias, J. see Mannella, C. A.
Diefenthal, T. see Heintz, K.
Dobinson, K. F. see Turcq, B.
Drygas, M. E. see Lill, R.
Dschida, W. J. see Bowman, B. J.
Dunlap, J. C. see Aronson, B. D.
Dunlap, J. C. see Bell-Pedersen, D.
Ebbole, D. J. see Yarden, O.
Eckerskorn, C. see Azevedo, J. E.
Fecke, W. see Weidner, U. Fikus, M. see Poznanski, J.
Fincham, J. R. S. see Kinnaird, J. H.
Fincham, J. R. see Connerton, I. F.
Forte, M. see Mannella, C. A.
Frederick, G. see Asch, D. K.
Friedrich, T. see Nehls, U.
Friedrich, T. see Schmidt, M.
Friedrich, T. see Weidner, U.
Fritig, B. see Vigers, A. J.
Fu, Y.-H. see Kanaan, M. N.
Galdino, S. L. see Lima, M.
C. A. Garrett-Engele, C. see Springer, M. L.
Geever, R. F. see Case, M.
E. Geever, R. F. see Crawford, J. M.
Gianelos, J. A. see Mohr, G.
Gibbons, J. J. see Johann, S. V.
Glaser, L. see Plesofsky, V. N.
Goes, A. J. S. see Lima, M. C. A.
Goffeau, A. see Wach, A.
Grotelueschen, J. S. see Metzzenberg, R.L.
Guiard, B. see Becker, K.
Guo, X. W. see Mannella, C. A.
Hager, K. M. see Springer, M. L.
Hardeland, R. see Kubis, H. P.
Harding, R. see Aguilar, J.
Hartl, F. U. see Martin, J.
Hasleham, I. see Kinnaird, J. H.
Hayashi, H. see Watanabe, T.
Heinrich, H. see Azevedo, J. E. Hergersberg, C. see Jordi, W.
Hill, E. P. see Plesofsky, V. N.
Hochberger, A. see Kneer, R.
Hormann, I. see Laufer-Lutum, C.
Horwich, A. L. see Martin, J.
Hrkach, J. see Aguilar, J.
Hung, Y. C. see Shambuyi, M.
Husmann, H. see Zensen, R.
Inoue, H. see Fujimura, M.
Itami, R. see Watanabe, T.
Izaki, K. see Watanabe, T.
Jaramillo-Maranon, M., see Barja, F.
Johnson, K. A. see Aronson, B. D.
Jorge, J. A. see Terenzi, H.
Kallies, A. see Gebauer, G.
Kalousek, F. see Isaya, G.
Kapoor, M. see Lin, W. S.

Kapoor, M. see Roychowdhury, H. S.
Karlin, S. see Burge, C.
Kato, T. see Fujimura, M.
Keil, P. see Sollner, T.
Kennell, J. C. see Nargang, F. E.
Kennell, J. C. see Wang, H.
Kim, D.-H. see Shoun, H.
Kinsey, J. A. see Asch, D. K.
Knock, T. E. see Bowman, E. J.
Kubicek, C. P. see Kubicek, P. E.
M. Kuck, U. see Kamper, U.
Kuiper, M. T. R. see Wang, H.
Kuldau, G. A. see Glass, N. L.
Kundu, M. see Basu, J.
Kupper, U. see Schilling, B.
Kutchan, T. M. see Kneer, R.
Kuwana, H. see Santosa, S.
Lambowitz, A. M. see Guo, Q.
Lambowitz, A. M. see Kamper, U.
Lambowitz, A. M. see Mohr, G.
Lambowitz, A. M. see Nargang, F. E.
Lambowitz, A. M. see Turcq, B.
Lambowitz, A. M. see Wang, H.
Lauter, F.-R. see Sokolovsky, V. Y.
Lee, L. see Glass, N.L.
Legrand, M. see Vigers, A. J.
Leif, H. see Weidner, U.
Lenard, J. see Kole, H. K.
Lerch, K. see Schilling, B.
Leslie, J. F. see Dickman, M. B.
Leslie, J. F. see Raju, N. B.
Lewis, E. H. see Gainey, L. D. S.
Linden, R. M. see Schilling, B.
Liu, Q. see Aronson, B. D.
Loros, J. J. see Bell-Pedersen, D.
Luu, D. C. see Lima, M. C. A.
Lysek, G. see Laufer-Lutum, C.
MacAlister, T. J. see Roychowdhury, H. S.
Maccheroni, W. J. see Han, S. W.
Maccioni, H. J. F. see Haedo, S. D.
Macino, G. see Baima, S.
Macino, G. see Romano, N.
Mannella, C. A. see Guo, X.-W.
Maruthi Mohan, P. see Wilson, C. H.
Marzluf, G. A. see Jarai, G.
Marzluf, G. A. see Kanaan, M. N.
Marzluf, G. A. see Yuan, G.-F.
Mautino, M. R. see Haedo, S. D.
McCullough, W. see Connerton, I. F.
Meinhardt, F. see Rohe, M.
Metzenberg, R. L. see Nelson, M. A.
Mohan, P. M. see Kumar, C. S.
Mohsenzadeh, S. see Kallies, A.
Moo, Y. M. see Olguntimein, G.

Morelli, G. see Baima, S.
Moss, J. see Lee, F.-J. S.
Mueller-Rober, B. see Sokolovsky, V.Y.
Myers, C. see Griffiths, A. J. F.
Nakashima, H. see Ohnishi, T.
Nakayama, T. see Shambuyi, M.
Nargang, F. E. see Lill, R.
Nehls, U. see Weidner, U.
Nehls, U. see Azevedo, J. E.
Neupert, W. see Lill, R.
Neupert, W. see Sollner, T.
Neupert, W. see Wienhues, U.
Ninnemann, H. see Reimber, H.
Nishikawa, K. see Hasunuma, K.
O'Hara, B. see Johann, S. V.
Oeda, K. see Fujimura, M.
Ohnishi, T. see Nehls, U.
Ohnishi, T. see Schmidt, M.
Ohnishi, T. see Weidner, U.
Overton, L. K. see de Serres, F. J.
Page, K. M. see McClung, C. R.
Palme, K. see Heintz, K.
Pande, S. see Nargang, F. E.
Paulson, A. see Hill, E. P.
Paulson, A. see Plesofsky, V. N.
Pawlowski, P. see Poznanski, J.
Peine, T. see Zensen, R.
Perkins, D.D. see Asch, D. K.
Perriere, M. see Williams, L. J.
Pfanner, N. see Becker, K.
Pfanner, N. see Sollner, T.
Pitkin, J. see Williams, L. J.
Pitta, I. R. see Lima, M. C. A.
Plamann, M. see Yarden, O.
Plesofsky, V. N. see Hill, E. P.
Plesofsky-Vig, N. see Vassilev, A. O.
Radford, A. see Woodward, J. R.
Rassow, J. see Becker, K.
Rassow, J. see Sollner, T.
Rensing, L. see Gebauer, G.
Rensing, L. see Kallies, A.
Rensing, L. see Kohler, W.
Rensing, L. see Zoeger, D.
Revell, D. F. see Kinnaird, J. H.
Ricci, M. see Sokolovsky, V. Y.
Rice, D. W. see Britton, K. L.
Rich, P. R. see Bechmann, G.
Ristow, J. L. see Williams, L. J.
Roberts, W. K. see Vigers, A. J.
Rodriguez, L. see Woodward, J. R.
Rosa, A. L. see Haedo, S. D.
Rosenberg, L. E. see Isaya, G.
Rossi, A. see Han, S. W.
Rossier, C. see Barja, F.

Rothe, H., see Azevedo, J. E.
Russo, V. E. A. see Lauter, F.-R.
Russo, V. E. A. see Pandit, N. N.
Russo, V. E. A. see Sokolovsky, V. Y.
Russo, V. see Heintz, K.
Sabourin, J. R. see Wang, H.
Sadler, B. M. see de Serres, F. J.
Sajani, L. S. see Wilson, C. H.
Saldanha, R. see Wang, H.
Sanders, D. see Corzo, A.
Sastry, K. S. see Kumar, C. S.
Scarborough, G. A. see Rao, U. S.
Schlessler, A. see Wach, A.
Schlossmann, J. see Sollner, T.
Schmidhauser, T. J. see Sokolovsky, V.
Y. Schmiede, A. see Nehls, U.
Schmiede, A. see Weidner, U.
Schneider, R. see Weidner, U.
Schneider, R. see Zensen, R.
Scholle, C. see Zoeger, D.
Schroder-Lorenz, A. see Zoeger, D.
Schrunder, J. see Rohe, M.
Schulte, U. see Weidner, U.
Selitrennikoff, C. P. see Vigers, A. J.
Serizawa, N. see Turcq, B.
Shima, J. see Watanabe, T.
Smith, D. R. see Kole, H. K.
Sollner, T. see Becker, K.
Stillman, T. J. see Britton, K. L.
Stuart, R. A. see Lill, R.
Sugiyama, J. see Shoun, H.
Sugiyama, T. see Watanabe, T.
Suzuki, T. see Watanabe, T.
Tamponnet, C. see Edmunds, L. N.
J. Taylor, J. W. see Berbee, M. L.
Techel, D. see Zoeger, D.
Temporini, E. D. see Haedo, S. D.
Terenzi, H. F. see Terenzi, H.
Tong, J. see Edmunds, L. N. J.
Tropschug, M. see Azevedo, J.E.
Truong, H.-N. see Jarai, G.
Tudzynski, P. see Rohe, M.
Turgeon, B. G. see Ciufetti, L. M.
Turian, G. see Barja, F.
Turner, G. see Gainey, L. D. S.
Uchiyama, H. see Shoun, H.
Utz-Pugin, A. see Rossier, C.
Van Den Broek, H. see Goosen, T.
Vazquez-Laslop, N. see Bowman, B. J.
Vlach, D. see Moo, Y. M.
Vlach, D. see Olguntimein, G.
von Heijne, G. see Gavel, Y.
Wakabayashi, S. see Watanabe, T.
Wallrath, J. see Schmidt, M.

Weiss, H. see Azevedo, J. E.
Weiss, H. see Bechmann, G.
Weiss, H. see Nehls, U.
Weiss, H. see Schmidt, M.
Weiss, H. see Weidner, U.
Weiss, H. see Zensen, R.
Weiss, R. L. see Yu, Y. G.
Werner, S. see Azevedo, J. E.
Werner, S. see Heinrich, H.
Wheals, A. see Yassin, S.
Whitaker, B. see Aguilar, J.
Wiedemann, S. see Vigers, A. J.
Wiedmann, M. see Sollner, T.
Wong, D. see Roychowdhury, H. S.
Xiao, Y. see Griffiths, A. J. F.
Yamashiro, C. T. see Royer, J. C.
Yanofsky, C. see Lauter, F.-R.
Yanofsky, C. see Springer, M. L.
Yanofsky, C. see Yamashiro, C. T.
Yanofsky, C. see Yarden, O.
Yarden, O. see Yamashiro, C. T.
Yoder, O. C. , see Ciufetti, L. M.
Zenk, M. H. see Kneer, R.
Zensen, R. see Weidner, U.
Zhang, A. see Mohr, G.

KEY WORD INDEX

- alpha-Amino adipate pathway, evolution (Bhattacharjee 1992)
- alpha-Keto-b-hydroxylacyl reductoisomerase, cloning and sequencing (Sista and Bowman 1992)
- ace-9, reduced pyruvate dehydrogenase activity (Santosa and Kuwana 1992)
- Acetate non-utilizing mutants, isolation (Owen, et al. 1992)
- Acetate-requiring mutant, ace-9, isolation (Santosa and Kuwana 1992)
- Acetyl CoA hydrolase, amino acid sequence (Connerton, et al. 1992)
- acu-8, encodes acetyl CoA hydrolase (Connerton, et al. 1992)
- Acyl carrier protein, mitochondrial (Zensen, et al. 1992)
- Allantoicase, purine catabolism (Lee and Moss 1991)
- Albino-3, photoinduction (Baima, et al. 1992)
- Amino acids, production and biosynthesis (Kubicek and Kubicek 1992)
- Apocytochrome c, import into mitochondria (Jordi, et al. 1992)
- Arginine transport into mitochondria (Yu and Weiss 1992)
- Ascospore development, analysis of recessive mutations (Raju and Leslie 1992)
- Ascospore formation, expression of con genes (Springer and Yanofsky 1992)
- Ascospore germination, cyanide sensitive respiration (Hill, et al. 1992)
- Ascospore germination, heat-shock protein expression (Plesofsky, et al. 1992)
- Ascospores, mass production (Sussman 1992)
- asd-1, ascospore development (Nelson and Metzenberg 1992b)
- asd-2, early sexual development (Nelson and Metzenberg 1992b)
- ATP synthase, cloning and sequencing of alpha and beta subunits (Bowman and Knock 1992)
- ATPase (vacuolar), electron microscopy, (Bowman, et al. 1992a, Dschida and Bowman 1992)
- ATPase (vacuolar), gene characterization and gene inactivation (Bowman, et al. 1992a)
- Autophosphorylation (Hasunuma and Nishikawa 1992)
- Benomyl, effect on germinating macroconidia (Barja, et al. 1992)
- Calcium, in mitochondria at hyphal tips (Barja and Turian 1992)
- Calcium metabolism, mutant with long lag phase on low calcium medium (Ohnishi, et al. 1992)

Calcium uptake, inhibition by La³⁺ (Corzo and Sanders 1992)

Carotenoid pigments, photoprotection (Mathews-Roth 1992)

cag-2, allelic to eas (Bell-Pedersen, et al. 1992)

Cellulolytic enzymes (Olguntimein, et al. 1992)

cfp (cytoplasmic filament protein P59Nc), cloning and relationship to snowflake (Haedo, et al. 1992b)

Chromosome fragile sites, in rDNA (Butler 1992)

Circadian clock controlled gene, cag-2, allelic to eas (Bell-Pedersen, et al. 1992)

Circadian clock, ions and second messengers (Edmunds, et al. 1992)

Circadian conidiation rhythm, effect of light intensity (Laufer-Lutum, et al. 1992)

Circadian rhythm, effect of inositol depletion on light sensitivity (Lakin 1992)

Circadian rhythm, energy metabolism (Brody 1992)

Circadian rhythms, NAD kinase (Kubis, et al. 1992)

Circadian rhythms, review (Wilkins 1992)

Cloning, 80 kDa heat-shock protein (Roychowdhury, et al. 1992b)

Cloning, alpha-keto-beta-hydroxylacyl reductoisomerase (ilv-2) (Sista and Bowman 1992)

Cloning, ATP synthase (Bowman and Knock 1992)

Cloning, cytoplasmic filament protein P59Nc (cfp) (Haedo, et al. 1992b)

Cloning, frequency and period-4 genes (Aronson, et al. 1992)

Cloning, genes expressed during sexual development (Nelson and Metzenberg 1992b)

Cloning, met-7 (Crawford, et al. 1992)

Cobalt resistant mutant (Wilson, et al. 1992)

Complex I, 9.5 kDa ubiquinone-binding subunit (Heinrich, et al. 1992)

Complex I, cloning and analysis of 20.9 kDa subunit (Azevedo, et al. 1992a)

Complex I, identification of ubiquinone-binding site (Heinrich and Werner 1992)

Complex I, molecular genetic studies (Weidner, et al. 1992)

CON 10, synthesis and cellular localization during conidiation (Springer, et al. 1992)

CON 13, synthesis and cellular localization during conidiation (Springer, et al. 1992)

con genes, expression during macroconidiation, microconidiation and ascospore formation (Springer and Yanofsky 1992)

Conidia, effects of benomyl and griseofulvin during germination (Barja, et al. 1992)

Conidia, regulation of rodlet protein (Lauter, et al. 1992; Bell-Pedersen, et al. 1992)

Conidiation, effect of light on nit and lis mutants on different nitrogen sources (Reimber and Ninnemann 1992)

Conidiospore germination (Monroy and Brambl 1992)

cot-1, encodes a protein kinase (Yarden, et al. 1992)

Cyclic AMP, effect of light and temperature (Gebauer, et al. 1992)

Cyclic AMP, effect on invertase activity (Terenzi, et al. 1992)

CYS-3 regulatory protein, DNA binding domain is bipartite (Kanaan, et al. 1992)

CYS-3 regulator protein, sulfur gene expression (Paietta 1992)

cyt-4, encodes a mitochondrial protein phosphatase (Turcq, et al. 1992)

Cytochalasin, effect on conidia (Turian, et al. 1992)

Cytochrome c heme lyase, import into mitochondria (Lill, et al. 1992)

Cytoplasmic filament protein P59Nc, cloning (Haedo, et al. 1992b)

Denitrification (Shoun, et al. 1992)

DNA binding protein (Ner 1992)

DNA sequence distribution (Burge, et al. 1992)

eas gene, light and developmental regulation (Lauter, et al. 1992)

eas, allelic to ccg-2 (Bell-Pedersen, et al. 1992)

Fatty acids, synthesis and desaturation in mitochondria (Zensen, et al. 1992)

Fluoroacetate resistant mutants, isolation (Owen, et al. 1992)

for locus, encodes cytosolic serine hydroxymethyltransferase (McClung, et al. 1992)

Fragrant strain is *N. sitophila* (Turner 1992)

Gene replacement, used to delete or disrupt genes (Case, et al. 1992)

Gene translocation between organelles (Brennicke 1992)

Genetic maps (Perkins 1992a)

Genetic risk assessment (de Serres 1992a)

Germination, effects of griseofulvin and benomyl on germinating macroconidia (Barja, et al. 1992)

Glucosidase (beta) (Woodward, et al. 1992)

Glutamate dehydrogenase, structural comparison (Britton, et al. 1992)

Griseofulvin, effect on germinating macroconidia (Barja, et al. 1992)

H⁺-ATPase, comparison of protein sequences from several species (Wach, et al. 1992)

H⁺-ATPase, location of amino acid residues of plasma membrane protein (Rao, et al. 1992)

Heat-shock protein, 80 kDa, cloning (Roychowdhury, et al. 1992b)

Heat-shock protein, 80 kDa, induction and intracellular location (Roychowdhury, et al. 1992a)

Heat-shock protein, 98: isolation, cellular distribution (Vassilev, et al. 1992)

Heat-shock protein, expression during ascospore germination (Plesofsky, et al. 1992)

Heat-shock protein, hsp60 and protein stabilization (Martin, et al. 1992)

Heat-shock, appearance of mitochondrial protein during recovery (Kohler and Rensing 1992)

Heat-shocked cells, increased superoxide production (Lin and Kapoor 1992)

Heavy metal sequestering (Kneer, et al. 1992)

Heterokaryon incompatibility (Fincham, et al. 1992)

Heterokaryon rescue (Barry 1992)

Heterokaryon incompatibility, role of tol (Jacobson 1992a)

Heterothallism in *N. tetrasperma* (Raju 1992a)

Hydrogen peroxide (Han 1992)

Hygromycin B-resistant transformants (Pandit and Russo 1992)

ilv-2, cloning and sequencing (Sista and Bowman 1992)

Immunosuppressants (Cyert 1992)

Inositol trisphosphate levels, effect of light and temperature (Gebauer, et al. 1992)

Insulinase, purification and characterization (Kole, et al. 1992)

Invertase, effect of cyclic AMP (Terenzi, et al. 1992)

Ion channels (Mannella 1992)

Isocitrate lyase, nucleotide and amino acid sequence (Gainey, et al. 1992)

Kalilo, suppression of senescence (Griffiths, et al. 1992)

Kalilo, nucleic acid conformation of a deletion derivative (Vierula and Bertrand 1992)

LaBelle plasmid, replication (Maleszka 1992)

Laccase, under control of metallothionein promoter (Schilling, et al. 1992)

Light induces mitochondrial heat-shock recovery protein (Kohler and Rensing 1992)

Light, effect on protein secretion (Kallies, et al. 1992)

Light-inducible genes, nitrogen regulation (Sokolovsky, et al. 1992)

Macroconidia, effects of benomyl and griseofulvin during germination (Barja, et al. 1992)

Malate dehydrogenase, cellular location of isoenzymes (Gietl 1992)

Mandelate pathway (Fewson 1992)

Maranhar, nucleotide sequence of mitochondrial plasmid (Court and Bertrand 1992)

Mating type incompatibility (Glass and Kuldau 1992)

Mating type, analysis of mat+ and mat- from *Podospora anserina* (Debuchy and Coppin 1992)

Mating type, use of RIP to obtain mutants (Glass and Lee 1992)

Mauriceville plasmid, replication (Maleszka 1992)

Medium, use of spent medium for antibiotic production (Watanabe, et al. 1992)

Membrane potentials (Mannella 1992)

Membrane, viscoelastic shear deformation (Poznanski, et al. 1992)

met-7, cloning and sequencing (Crawford, et al. 1992)

Metallothionein promoter, regulation of laccase (Schilling, et al. 1992)

Metallothionein, purification copper metallothionein (Lerch 1991)

Microconidiation, expression of con genes (Springer and Yanofsky 1992)

Mitochondria, protein import (Sollner, et al. 1992)

Mitochondrial DNA polymerase, effect 4-chloromercuribenzoate, N-ethylmalcicide, ethidium bromide and heparin (Grones 1991)

Mitochondrial DNA, evidence for insertion of part of the LaBelle plasmid (Nargang, et al. 1992)

Mitochondrial fatty acid synthesis (Zensen, et al. 1992)

Mitochondrial genome (Hudspeth 1992)

Mitochondrial membrane permeability (Mannella 1992)

Mitochondrial plasmids, replication (Maleszka 1992)

Mitochondrial processing peptidase, recognition signal (Isaya, et al. 1992)

Mitochondrial protein import (Gavel and von Heijne 1992)

Mitochondrial protein import, 20.9 kDa subunit of complex I (Azevedo, et al. 1992a)

Mitochondrial protein transport, review (Wienhues and Neupert 1992)

Mitochondrial protein transport, targeting (Becker, et al. 1992)

Mitochondrial proteins, expression of nuclear and mitochondrial genes (Monroy and Brambl 1992)

Mitochondrial synthesis, protein processing (Lill, et al. 1992)

Mitotic instability of transformants (Rossier, et al. 1992)

mRNA splicing, alternative modes (Kinnaird, et al. 1992)

NADH:ubiquinone oxidoreductase (complex I), assembly (Nehls, et al. 1992)

NADH:ubiquinone oxidoreductase, effect manganese limitation (Schmidt, et al. 1992)

NADH:ubiquinone oxidoreductase, fatty acid synthesis (Zensen, et al. 1992)

Ncyp1, located on chromosome 2 (Heintz, et al. 1992)

Neurospora in bakeries (Yassin and Wheals 1992)

Neurospora intermedia, growth medium (Shambuyi, et al. 1992)

Nickel resistant mutant (Wilson, et al. 1992)

Nickel, removal from medium (Kumar, et al. 1992)

NIT-2 protein, binds upstream tomato nitrate reductase gene (Jarai, et al. 1992)

nit-2, complements nnu mutant of *Gibberella zeae* (Dickman and Leslie 1992)

nit-4, analysis of transformants (Yuan and Marzluf 1992b)

nit-4, molecular characterization of mutations (Yuan and Marzluf 1992a)

Nitrogen regulation of blue light-inducible genes (Sokolovsky, et al. 1992)

Ornithine decarboxylase gene, isolation, sequence and regulation (Williams, et al. 1992)

pho-4+, phosphate permease, homologous to human gene GLVR1 which is involved in virus infection (Johann, et al. 1992)

Phosphatidylinositol/phosphatidyl choline transfer protein, purification (Basu, et al. 1992)

Phosphoglycerate kinase, nucleotide and protein sequence (Azevedo, et al. 1992b)

Phytochelatin (Kneer, et al. 1992)

Plasmids of filamentous fungi, structure and function (Rubidge 1992)

Plasmids, phylogenetic tree (Rohe, et al. 1992)

Polyketide toxins (Ciuffetti, et al. 1992)

Protein kinase, encoded by cot-1 (Yarden, et al. 1992)

Protein purification, phosphatidylinositol/phosphatidylcholine transfer protein (Basu, et al. 1992)

Protein secretion, effect of light (Kallies, et al. 1992)

Pyruvate dehydrogenase, defective in ace-9 (Santosa and Kuwana 1992)

qa-1S, encodes a repressor protein (Case, et al. 1992)

qa-2+-pGEM vector (Nelson and Metzenberg 1992a)

qa-y, encodes a quinic acid permease (Case, et al. 1992)

Quelling, transient inactivation of gene expression (Romano and Macino 1992)

Radiation effects, analysis of two component heterokaryons (de Serres, et al. 1992b)

Ras supergene family, Ncyp1 1 gene located on chromosome 2 (Heintz, et al. 1992)

Ras-specific antibody binding protein (Hasunuma and Nishikawa 1992)

Recombination, bases for reduced rates in outcrosses (Perkins and Bojko 1992)

Restriction polymorphism maps (Metzenberg and Grotelueschen 1992a)

Reverse transcriptase from Mauriceville plasmids (Wang, et al. 1992)

Review, genetic risk assessment (de Serres 1992b)

Review, historical (Perkins 1992b)

RFLP pattern in Non-Oak Ridge strain (Haedo, et al. 1992a)

Ribosomal DNA, evolution (Berbee and Taylor 1992)

Ribosomal DNA, sites of chromosomal breakage (Butler 1992; and Tyler 1991)

RIP, use to obtain mating type (A) mutants (Glass and Lee 1992)

RNA processing, role of tyrosyl-tRNA synthetase (Kamper, et al. 1992)

RNA splicing, role of CYT-18, tyrosyl-tRNA synthetase (Mohr, et al. 1992)

RNA splicing, role of tyrosyl-tRNA synthetase (Guo and Lambowitz 1992)

Rodlet protein, light and developmental regulation (Lauter, et al. 1992)

Round spore, R, new mutations (Jacobson 1992b)

Senescence, suppression (Griffiths, et al. 1992)

Serine hydroxymethyltransferase, encoded by for (McClung, et al. 1992)

Sexual cycle, genetic control (Raju 1992b)

Sexual development, mutants in mating type A (Glass and Lee 1992)

Spheroplasts, generation (Royer and Yamashiro 1992)

Starvation induced proteins (Zoeger, et al. 1992)

Superoxide, produced in heat-shocked cells (Lin and Kapoor 1992)

Telomere, M11, is the right end of LG VI. (Asch, et al. 1992)

Thaumatin-like proteins are antifungal (Vigers, et al. 1992)

tol, control of mating type heterokaryon incompatibility (Jacobson 1992a)

Transcription factors, CYS-3 regulatory protein (Kanaan, et al. 1992)

Transcription (Sprague 1992)

Transformants, analysis of hygromycin B-resistant transformants (Pandit and Russo 1992)

Transformation, analysis of ectopic integration sites (Asch, et al. 1992)

Transformation, generation of spheroplasts (Royer and Yamashiro 1992)

Transformation, methods (Goosen, et al. 1992)

Transformation, mitotic instability (Rossier, et al. 1992)

Transformation, transient inactivation by homologous sequences (quelling) (Romano and Macino 1992)

Transformation, use of *A. nidulans* amdS gene as a dominant, meiotically stable marker (Yamashiro, et al. 1992)

Tubulin, amino acid substitutions giving carbendazim and diethofencarb resistance (Fujimura, et al. 1992)

Tubulin, colchicine binding (Burns 1992)

Tyrosyl-tRNA synthetase (CYT-18), role in group 1 RNA splicing (Guo and Lambowitz 1992)

Tyrosyl-tRNA synthetase, role in protein synthesis and RNA processing (Kamper, et al. 1992)

Tyrosyl-tRNA synthetase, role in RNA splicing (Mohr, et al. 1992)

Ubiquinol-cytochrome c oxidoreductase, effects of antimycin A, funiculosin and/or myxothiazol (Bechmann, et al. 1992)

un-1, deficient in superoxide dismutase isozyme (SOD-2) (Munkres 1992)

un-17, deficient in superoxide dismutase isozyme (SOD-4) (Munkres 1992)

un-3, deficient in superoxide dismutase isozyme (SOD-3) (Munkres 1992)

Vacuolar ATPase, electron microscopy, gene characterization and gene inactivation/mutation (Bowman, et al. 1992a)

Vacuolar ATPase, electron microscopy analysis of structure (Dschida and Bowman 1992)

Vacuolar ATPase (Bowman, et al. 1992b)

VDAC, characterization of VDAC modulator protein (Liu and Colombini 1992)

VDAC, projection images of crystalline arrays (Guo and Mannella 1992)

VDAC, role in protein translocation (Mannella, et al. 1992b)

VDAC, structure (Mannella, et al. 1992a)

Vegetative incompatibility (Glass and Kuldau 1992)

White collar-2, accumulation of sordarial in growth medium (Aguilar, et al. 1992)

White collar-2, structure of accumulated compound (Aguilar and Harding 1992)

X-ray induced adenine 3 mutants (de Serres, et al. 1992a)

X-rays, analysis of two component heterokaryons (de Serres, et al. 1992b)