

How and where to obtain information on Neurospora

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Background

A vast primary literature is amply covered by reviews, monographs, and compendia. These are now complemented and made accessible by electronic sources of information and by search engines.

A working Neurospora laboratory should probably have Davis's book and the 2001 Neurospora Compendium available for reference. It should subscribe to the *Fungal Genetics Newsletter* and should be on mailing lists managed by the Fungal Genetics Stock Center, to receive the *Neurospora E-News*, announcements of meetings, etc. URLs for the following Internet sources should be kept readily available, included in *Bookmarks* or *Favorites*.

Useful internet sources

- ***Neurospora Home Page:*** <http://www.fgsc.net/Neurospora/index.html>
Section headings: *The Foundation of Neurospora Biology, An Introduction to Neurospora Research, Neurospora Genetic Databases, Experimentsl Methods, Ideas for Student Labs, Photo Galleries.*
- ***Fungal Genetics Stock Center Home Page:*** <http://www.fgsc.net/>
Section headings: *Information Regarding FGSC (including catalog, mailing list), Biological Materials, Organism Information, Genome Resources, Additional Resources (including Newsletters), Meetings, Google Search of FGSC Site.*
- ***The Neurospora E-Compendium:***
http://www.bioinf.leeds.ac.uk/%7Egen6ar/newgenelist/genes/gene_list.htm
This brings together, with search and browse utilities, information on all named genes, including location on the genetic and physical maps, sequence codes, gene product, phenotype description, references (with links to PubMed). It includes, corrects, and complements information in the 2001 Neurospora Compendium, adding new entries on all *N. crassa* loci recognized and named since 2000.
- ***The 2001 Neurospora Compendium:***
<http://www.fgsc.net/2000compendium/NewCompend.html>
A compilation of information on all chromosomal loci established prior to completion of the *N. crassa* genome sequence, with background material on Neurospora, and appendices headed *Neurospora Genetic Nomenclature, Genetic Maps and Mapped Loci, Data for RFLP Mapping, The N. crassa Mitochondrial Genome, Expressed Sequences from Different Stages of the Neurospora Life Cycle*. 2300 references.
- ***The Neurospora Genome Project:*** <http://www.dartmouth.edu/%7Eneurosporagenome/>
This ongoing NIH-sponsored program, initiated in 2004 , involves nine institutions. It consists of four major projects: *Gene Disruptions, Annotation and Genomics, Transcriptional Profiling, and EST Libraries & SNPs*. Knockouts will be announced and made available as they are obtained.
- ***The Neurospora Genome Sequence:***
http://www.broad.mit.edu/annotation/fungi/neurospora_crassa_7/index.html
<http://mips.gsf.de/proj/neurospora/>
- ***The NIH Neurospora/Model Organism Page:***
<http://www.nih.gov/science/models/neurospora/>
- ***Textpresso:*** <http://www.textpresso.org/nspora/>

A search engine of *N. crassa* literature powered by the Textpresso project. As of 11/05, this is based on 1733 full text articles pertaining to fungus biology that were published from 1986-2005. This site contains articles from 21 journals, but the majority come from *Fungal Genetics Biology*, *Genetics*, and *Journal of Biological Chemistry*. The full text of these articles can be searched using keywords and/or categories from the Textpresso ontology.

- ***The Neurospora Bibliography:*** <http://www.fgsc.net/scripts/biblio.asp>
This bibliography includes all the references in the 1965 *Neurospora Bibliography and Index* by Bachman and Strickland, and in subsequent supplements published annually in the *Neurospora Newsletter/Fungal Genetics Newsletter*. (For publications in recent years not yet incorporated, see individual Newsletters.) Searchable by author, title, date, or journal.
- ***Photographs:*** <http://www.stanford.edu/group/neurospora/Photos.html>
A microscopic examination by N. B. Raju of meiosis, ascus development, and other events in the sexual phase.

Useful reference works, compilations, landmark papers, and reviews

The following list is paralleled by similar lists at other web sites (e.g., <http://www.stanford.edu/group/neurospora/index.html>, <http://www.nih.gov/science/models/neurospora/>, <http://www.fgsc.net/>). Some of these sites may be more informative than others, depending on inclusiveness and on the frequency of updating of the site.

General

Davis, R. H. 2000. *Neurospora: Contributions of a Model Organism*. Oxford University Press, New York.

Compendia

Perkins, D. D., A. Radford, and M. S. Sachs. 2001. *The Neurospora Compendium: Chromosomal Loci*. Academic Press, San Diego. <http://www.fgsc.net/2000compendium/NewCompend.html>. This book is complemented and updated by the on-line E-Compendium (2005 and continuing). See above.

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Perkins, D. D. 1997. Chromosome rearrangements in Neurospora and other filamentous fungi. Adv. Genet. 36: 239-398. <http://www.stanford.edu/group/neurospora/OldPDFs/PerkinsAdvGen97.pdf>

Genome annotation

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<http://www.stanford.edu/group/neurospora/UsefulPDFs/1927Shear-Dodge.Neurospora.pdf>

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Perkins, D. D. 1992. Neurospora: The organism behind the molecular revolution. Genetics 130: 687-701. <http://www.genetics.org/content/vol130/issue4/index.shtml>

Horowitz, N. H. 1973. Neurospora and the beginnings of molecular genetics. Neurospora Newslett. 20: 4-6. <http://www.fgsc.net/fgn/nn20/20Horowitz.pdf>

Horowitz, N. H. 1985. The origins of molecular genetics: One gene, one enzyme. BioEssays 3: 37-39. <http://www3.interscience.wiley.com/cgi-bin/jissue/109911484>

Fincham, J. R. S. 1985. From auxotrophic mutants to DNA sequences. In *Gene Manipulation in Fungi*. (J. W. Bennett and L. L. Lasure, eds.). pp. 3-34. Academic Press.

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Robbins, W. J. 1962. Bernard Ogilvie Dodge, April 18, 1872–August 9, 1960. Biographical. Memoirs Nat. Acad. Sci. USA 36: 85-124.

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Methods

Bell Pedersen, D. (ed). 2006 and continuing. [*Neurospora Methods Handbook.*] <http://www.fgsc.net/Neurospora/NeurosporaProtocolGuide.htm>

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Special topics

- **Mating type, the sexual cycle**

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Debuchy, R., and B. G. Turgeon. 2005. Mating-type structure, evolution, and function in Euascomycetes. In *The Mycota, Vol. I 2nd ed.* (in press).

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- **Heterokaryons, vegetative incompatibility**

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Davis, R. H. 1966. Mechanisms of inheritance. 2. Heterokaryosis. In *The Fungi: An Advanced Treatise. Vol. 2* (G. C. Ainsworth and A. S. Sussman, eds.) pp. 567-588. Academic Press.

- **Genetics and cytogenetics**

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Perkins, D. D., and E. G. Barry, 1977 The cytogenetics of Neurospora. *Adv. Genet.* 19: 133-285.
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Raju, N. B. 1980. Meiosis and ascospore genesis in Neurospora. *European J. Cell Biol.* 23: 208-223. <http://www.stanford.edu/group/neurospora/OldPDFs/1980Raju.MeiosisReview.pdf>

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<http://www.stanford.edu/group/neurospora/OldPDFs/1992Raju.SexualCycleReview.pdf>

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- ***Metabolism, regulation, transport***

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- ***Mitochondria and mitochondrial plasmids***

Kennell, J. C., R. A. Collins, A. J. F. Griffiths, and F. E. Nargang. 2004. Mitochondrial genetics of *Neurospora*. In *The Mycota, Vol. 2: Genetics and Biotechnology. 2nd edition*. (U. Kück, ed.), pp. 95-112. Springer-Verlag.

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- ***RIP and silencing***

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- *Natural populations, species recognition*

Turner, B. C., D. D. Perkins, and A. Fairfield. 2001. Neurospora from natural populations: A global study. Fungal Genet. Biol. 32: 67-92.

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- *Circadian rhythms, photobiology*

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- ***Mutation and DNA repair***

Schroeder, A.L., H. Inoue, and M.S. Sachs. 1998. DNA repair in Neurospora. In *DNA Damage and Repair. Vol. 1: Biochemistry, Genetics, and Cell Biology*. pp. 503-538. (J.A. Nickoloff and M.F. Hoekstra, eds.). Humana Press, Totowa, NJ.

- ***Toxic levels of drugs, antibiotics, and antagonists***

Chalmers, J. H. 1974. Toxicity of antibiotics and other drugs to Neurospora. Neurospora Newslett. 21: 20-21. <http://www.fgsc.net/fgn/nn21/21chalmers.pdf>

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- ***Curves showing growth rate as a function of temperature and of pH***

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- ***Curves showing ascospore germination as a function of the temperature and duration of heatshock***

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- ***Curves showing size distribution among microconidia and macroconidia***

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- ***Pedigrees showing derivation of the standard N. crassa Oak Ridge wild type strains***

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- ***Sequence-based phylogenies***

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