

Introduction:

Sordaria, more specifically known as *Sordaria fimicola*, is a common type of dung ascomycete. This fungus usually grows on decaying organic material, but is also used in laboratories for various educational purposes. *Sordaria* is "classified in the class of Pyrenomycetes, along with [other fungi like] *Xylaria polymorpha*, dead man's fingers, [and] *Hyponyces lactifluorum*, the lobster mushroom" ("*Sordaria fimicola*, a fungus used in genetics"). *Sordaria* also can be four different colors, tan, gray, clear, and black which is known as the wild type. The fungus has two different genes with two alleles per gene. These two genes are the "t" gene and the "g" gene. The two alleles for each gene are "g" and "g+" for the "g" gene and "t" and "t+" for the "t" gene. The different combinations of these genes are what makes the *Sordaria* a specific color. If the "g+" and "t+" alleles combine they produce black spores, if the "g" and "t+" alleles combine they produce gray spores, if the "g+" and "t" alleles combine they produce tan spores, and if the "g" and "t" alleles combine they produce clear spores.

Sordaria does not asexually reproduce and starts, and remains for most of its life, in haploid form. To start reproducing the haploid *Sordaria* cell undergoes Mitotic Cell Division to create long strings/chains of cells. After the fungus is in the long strings/chains, they start to form sacs with different nuclei in the sacs. *Sordaria* has two different mating types, positive and negative, and both sacs have a different mating type of nuclei. These two sacs fuse together to form one Dikaryotic cell. A Dikaryotic cell is one cell that has two haploid nuclei, but the nuclei are not fused together. As the sacs fuse, the Dikaryotic cell begins to create long chains of eight nuclei, known as ascospores. These ascospores then combine to develop into an ascocarp (perithecium) which is the fruiting body for *Sordaria*. Once the *Sordaria* has fully matured in the ascocarp, eight ascospores contained in a clear sac are released. The ascospores that are released

Sordaria Genetics Lab Report

JG Myers



Sordaria Genetics Lab Report:

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D. Dolphin, 1991 **The Science Education Programs of the National Science Foundation** National Science Foundation (U.S.), 1975 Resources in Education, 1996 **Cumulated Index Medicus**, 1983 *Biology*, 1998 **Bibliography of Agriculture with Subject Index**, 1970-05 **Hybrid Conference Report**, 1981 Fungal Genetics Newsletter, 1989 Current Advances in Genetics, 1980 **Oxbridge Directory of Newsletters**, 1997 *Drosophila Information Service*, 1997 **Genetics Abstracts**, 1989 **Microbial Genetics Bulletin**, 1962 **Bibliography of Agriculture**, 1970 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1964 **Graduate Studies**, 1984 **Bibliography of Agriculture**, 1984 **Biological Abstracts** Jacob Richard Schramm, 1962-03 *The Standard Periodical Directory*, 1993

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