

Pyogranulomatous obliterative laryngotracheitis by *Rhizopus arrhizus* (syn. *R. oryzae*) in a free-ranging Atlantic spotted dolphin *Stenella frontalis*

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Rhizopus oryzae is a filamentous heterothallic microfungus that occurs as a saprotroph in soil, dung, and rotting vegetation. This species is very similar to *Rhizopus stolonifer*, but it can be distinguished by its smaller sporangia and air-dispersed sporangiospores. It differs from *R. oligosporus* and *R. microsporus* by its larger columellae and sporangiospores. *R. oryzae* is used economically in the production of the enzymes, glucoamylase and lipase, in the synthesis of organic acids, and in various Also, *Rhizopus arrhizus* and *Rhizopus oryzae* convert starch or starch-based raw materials to l(+) lactic acid since these species have amylolytic enzyme activity. Table 1 presents some of the characteristics of molds that produce lactic acid. Mutation induced with N'-nitro-N-nitrosoguanidine has resulted in a *Rhizopus* sp. strain having reduced fermentation times and larger amounts of lactic acid produced from corn starch than with the parent strain. *R. oryzae* transformants have been constructed by introducing specific plasmids to increase LDH activity and give higher lactic acid production from glucose and lower production of ethanol and fumaric acid compared with control *Rhizopus* strains. (2018). Pyogranulomatous obliterative laryngotracheitis by *Rhizopus arrhizus* (syn. *R. oryzae*) in a free-ranging atlantic spotted dolphin *Stenella frontalis*. *Dis. Aquat. Org.* 130, 153–158. doi: 10.3354/dao03268. PubMed Abstract | CrossRef Full Text | Google Scholar. Datta, K., Bartlett, K. H., Baer, R., Byrnes, E., Galanis, E., Heitman, J., et al. *Pseudomonas aeruginosa* inhibits *Rhizopus microsporus* germination through sequestration of free environmental iron. *Sci. Rep.* 9:5714. doi: 10.1038/s41598-019-42175-0. PubMed Abstract | CrossRef Full Text | Google Scholar. Lanternier, F., Dannaoui, E., Morizot, G., Elie, C., Garcia-Hermoso, D., Huerre, M., et al. (2012). A global analysis if mucormycosis in France: the retrogyo study (2005-2007). *R. oryzae* in a free-ranging Atlantic spotted dolphin *Stenella frontalis*. Access to full text articles is controlled by IP number or by user password. Your current IP number is 213.180.203.86 This IP was not recognized as belonging to a subscribing institute. If you have a User-ID and password, please enter them above. Return to article abstract page Return to issue contents page. Copyright and Disclaimer Privacy Policy Contact. Medically important groups are *Rhizopus oryzae* and *Rhizopus microsporus*. Image Source: BrainKart and Dr. Gary E. Kaiser. Habitat of *Rhizopus* spp. They reproduce both sexually and asexually. Asexual reproduction produces sporangiospores which are formed in a spherical structure known as a sporangium. The sporangiospores are globose to ovoid, single-

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