



Jack W. Fell, PhD

Professor, Marine Biology & Fisheries

**NSF-NIEHS Oceans & Human Health Center Role: Co-PI Genomics Core,
Investigator- Recreational Microbes**

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Education

- (1954) B.S. Northwestern University, Evanston, IL
- (1959) M.S. University of Miami
- (1965) Ph.D. University of Miami
- (1966) Postdoctoral Fellow University of California

Research Interests

Field and laboratory research on the role of fungi in marine food webs. Field studies have been in oceanic and near shore regions. Open ocean research has examined the distribution of yeasts relative to physical and biological characteristics of the Atlantic, Pacific, Indian and Antarctic Oceans. Near shore studies concentrate on the role of fungi in decomposition processes in the mangrove detrital system, a major nutrient source in tropical food webs. Laboratory studies examine mating genetics and molecular genetics of basidiomycetous yeasts as a measure of fungal

population diversity. Biotechnology development studies include high throughput detection of microorganisms with suspension array and electrochemical technologies.

Representative Publications (2004 -2005, from 140 publications)

Diaz, MR., Boekhout T, Kiesling T &. Fell JW. 2005. Comparative analysis of the intergenic spacer regions and population structure of the species complex of the pathogenic fungus: *Cryptococcus neoformans*. FEMS Yeast Research (in press)

Diaz , MR. & Fell JW. 2005 Use of a suspension array for rapid identification of the varieties and genotes of *Cryptococcus neoformans* species complex. J. Clin. Research (in press)

Goodwin KD, S.A. Cotton, G. Scorzetti, and J.W. Fell, 2005 A DNA hybridization assay to identify toxic dinoflagellates in coastal waters: detection of *Karenia Brevis* in the Rookery Bay National Estuarine Research Reserve. Harmful Algae 4:411-422

LaGier MJ, Scholin CA, Fell JW & Goodwin KD 2005 An electrochemical RNA hybridization assay for detection of the fecal indicator bacterium *Escherichia coli*. Mar Pollution Bull (in press).

Starmer WT & Fell JW Yeasts in the Genus *Rhodotorula* Recovered from the Greenland Ice Sheet. In Life in Ancient Ice. Ed Castello JD & Rogers S?O Princeton Univ Press (in press)

Middelhoven WJ, Scorzetti G & Fell JW. 2004. Systematics of the anamorphic basidiomycetous yeast genus *Trichosporon vadense* Behrend with the description of five novel species, viz. *T. smithiae*, *T. dehoogii*, *T. scarabaeorum* and *T. gamsii*. Int J Syst Evol Microbiol 54: 975-986.

Sampio JP, Golubev WJ, Fell JW, Gadanho M & Golubev NW. 2004 *Curvibasidium cygneicollum* gen. nov., sp. nov. and *Curvibasidium pallidicorallinum* sp. nov., novel taxa in the Microbotryomycetidae (Urediniomycetes), and their relationship with *Rhodotorula fujisanensis* and *R. nothofagi*. Int J Syst Evol Microbiol. 54:1405-1411

Sampaio JP, Inacia J, Fonseca A, Gadanho M, Fell JW & Scorzetti 2004 *Auriculibuller fuscus* gen. nov., sp. nov. and *Bullera japonica* sp. nov., novel taxa in the Tremellales. Int J. Syst Evol Microbiol 54:987-993.

Lopandic K, Sugita T, Middelhoven WJ, Herzberg M, Fell JW, Zelger S & Prillinger H. 2004. *Trichosporon caseorum* sp. nov. and *Trichosporon lactis* sp. nov., two basidiomycetous yeasts isolated from cheeses. Frontiers in Basidiomycota Mycology:99-116

Fell JW & Scorzetti G 2004 Reassignment of the basidiomycetous yeasts *Trichosporon pullulans* to *Guehomyces pullulans* gen. nov, comb., nov. and *Hyalodendron lignicola* to *Trichosporon lignicola* comb. nov. Int J. Syst Evol Microbiol 54: 995-998.

Thanh VN, Smit MS, Moleleki N & Fell JW 2004 *Rhodotorula cycloclastica* sp. nov., *Rhodotorula retinophila* sp. nov., and *Rhodotorula terpenoidalis* sp. nov., three limonene-utilizing yeasts isolated from soil. FEMS Yeast Research 4:857-863

Diaz M & Fell JW 2004 High throughput detection of pathogenic yeasts in the genus *Trichosporon*. J Clin Microbiol 42: 3696-3706

Fell, JW, Statzell-Tallman A & Kurtzman CP. 2004 *Lachancea meyersii* sp. nov., an ascosporeogenous yeast from mangrove regions in the Bahama Islands. Studies in Mycology 50: 359-363

Kurtzman CP, Statzell-Tallman A & Fell JW 2004 *Tetrapisispora fleetii* sp. nov., a new member of the Saccharomycetaceae. Studies in Mycology 50: 397-400

Goodwin KD G. Scorzetti, S.A. Cotton, T.L. Kiesling, P.B. Ortner, and J.W. Fell. 2004 Detection of *Karenia brevis* by a Microtiter Plate Assay. Harmful Algae 2004. Proceedings of the Xth International Conference on Harmful Algae. Steidinger, K.A., Landsberg, J.H. Tomas, C.R., and Vargo, G.A. (Eds.). Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO.

Kurtzman CP & Fell JW 2004 Yeasts. In Biodiversity of Fungi Inventory and Monitoring Methods Eds Mueller G, Bills G and Foster M. pp 337-343. Elsevier

More Info:

<http://www.rsmas.miami.edu/divs/mbf/people/jfell.html>