

## Herman J. Phaff

### List of Publications

1. Mrak, E.M., H.J. Phaff and B.L. Smith. March 1942. Non-validity of the genus *Asporomyces*. *Mycologia* 34(2):139-141.
2. Mrak, E.M., H.J. Phaff and R.H. Vaughn. June 1942. Yeasts occurring on dates. *Journal of Bacteriology* 43(6):689-700.
3. Mrak, E.M., H.J. Phaff, R.H. Vaughn and H.N. Hansen. Oct. 1942. Yeasts occurring in souring figs. *Journal of Bacteriology* 44(4):441-450.
4. Mrak, E.M., H.J. Phaff and H.C. Douglas. Nov. 1942. A sporulation stock medium for yeasts and other fungi. *Science* 96(2497):432-433.
5. Mrak, E.M., H.J. Phaff and H. Friar. March 1943. Dehydration of cherries. *Fruit Products Journal* 22(7):198-201.
6. Phaff, H.J., and M.A. Joslyn. March 1943. Peroxidase test for blanching requires careful application. *Food Industries* 15(3):50-52.
7. Mrak, E.M., H.J. Phaff, C.D. Fisher and G. Mackinney. April 1943. Dehydration of fruits offers important wartime advantages. *Food Industries* 13(4):59-62.
8. Phaff, H.J., and H.C. Douglas. July 1944. A note on yeasts occurring in dessert wines. *Fruit Products Journal and American Food Manufacturer* 23(11):332-333.
9. Phaff, H.J., R.L. Perry and E.M. Mrak. Feb. 1945. New methods produce superior dehydrated cut fruits. Part I. *Food Industries* 17(2):150-153, 234, 236, 238, 240.
10. Phaff, H.J., G.L. Marsh, E.M. Mrak and C.D. Fisher. May 1945. New methods produce superior dehydrated cut fruits. Part II. Apricots and Freestone peaches. *Food Industries* 17(5):516-518, 600, 602, 604, 606, 608.
11. Phaff, H.J., E.M. Mrak, R.L. Perry and C.D. Fisher. June 1945. New methods produce superior dehydrated cut fruits. III. Clingstone peaches and pears. *Food Industries* 17(6):634-637.
12. Perry, R.L., G.L. Marsh and H.J. Phaff. Oct. 1945. Some engineering aspects of blanching cut fruits for dehydration. *Agricultural Engineering* 26(10):421-422, 424.
13. Whelton, Rita, H.J. Phaff, E.M. Mrak and C.D. Fisher. Jan. 1946. Control of microbiological food spoilage by fumigation with epoxides. *Food Industries* 18(1):23-25; 18(2):174-176, 318, 320.
14. Phaff, H.J., E.M. Mrak, Ruth Allemann and Rita Whelton. Jan. 1946. Microbiology of prunes during handling and drying. *Fruit Products Journal and American Food Manufacturer* 25(5):140-141, 155.
15. Perry, R.L., E.M. Mrak, H.J. Phaff, G.L. Marsh and C.D. Fisher. Dec. 1946. Fruit Dehydration. I. Principles and Equipment. *University of California Agricultural Experiment Station Bulletin No. 698*, 68 pp.
16. Whelton, Rita, and H.J. Phaff. Jan. 1947. A non-respiratory variant of *Saccharomyces*

*cerevisiae*. Science 105(2715):44-45.

17. Mrak, E.M., and H.J. Phaff. Feb. 1947. Recent advances in the production and handling of dehydrated fruits. Food Technology 1(2):157-160.
18. Phaff, H.J. April 1947. The production of exocellular pectic enzymes by *Penicillium chrysogenum*. I. On the formation and adaptive nature of polygalacturonase and pectinesterase. Archives of Biochemistry 13(1):67-81.
19. Joslyn, M.A., and H.J. Phaff. April 1947. Recent advances in the chemistry of pectic substances. Wallerstein Laboratories Communications 10(29):39-56.
20. Phaff, H.J., and M.A. Joslyn. Aug. 1947. The newer knowledge of pectic enzymes. Wallerstein Laboratories Communications 19(30):133-148.
21. Mrak, E.M., and H.J. Phaff. 1948. Yeasts. Annual Review of Microbiology 2:1-46.
22. Chari, C.N., C.P. Natarajan, E.M. Mrak and H.J. Phaff. March 1948. The effect of blanching and dehydration on enzyme activity and storage quality of high moisture unprocessed prunes. Fruit Products Journal and American Food Manufacturer 27(7):206-211.
23. Phaff, H.J., and E.M. Mrak. Dec. 1948. Sporulation of yeasts. Part I. Wallerstein Laboratories Communications 11(35):261-279.
24. Phaff, H.J., and E.M. Mrak. March 1949. Sporulation of yeasts. Part II. Wallerstein Laboratories Communications 12(36):29-34.
25. Mrak, E.M., H.J. Phaff and G. Mackinney. April 1949. A simple test for carotenoid pigments in yeasts. Journal of Bacteriology 57(4):409-411.
26. Bouthilet, R.J., Nora E. Neilson, E.M. Mrak and H.J. Phaff. May 1949. The fermentation of trehalose by yeasts and its taxonomic implications. Journal of General Microbiology 3(2):282-289.
27. Mrak, Emil M., Herman J. Phaff, Rita E. Whelton and Charles D. Fisher. June 1950. Method for treatment of and package for dried fruit. United States Patent No. 2,511,987.
28. Phaff, H.J. 1951. Fruit and vegetable dehydration principles and advances (1864-1945). Biologia II. Chronica Botanica 12(4/6):306-329.
29. Lukes, T.M., and H.J. Phaff. 1951. Characteristics of trehalase in *Candida tropicalis*. Antonie van Leeuwenhoek 18:323-335.
30. Luh, B.S., and H.J. Phaff. Sept. 1951. Studies on polygalacturonase of certain yeasts. Archives of Biochemistry and Biophysics 33(2):212-227.
31. Phaff, H.J., and B.S. Luh. March 1952. The preparation of pure di- and tri-galacturonic acids. Letters to the editors. Archives of Biochemistry and Biophysics 36(1):231-232.
32. Phaff, H.J., E.M. Mrak and O.B. Williams. July 1952. Yeasts isolated from shrimp. Mycologia 44(4):431-451.
33. Nakayama, T., G. Mackinney and H.J. Phaff. 1954. Carotenoids in asporogenous yeasts. Antonie van Leeuwenhoek 20:217-228.

34. Luh, B.S., and H.J. Phaff. Jan. 1954. Properties of yeast polygalacturonase. *Archives of Biochemistry and Biophysics* 48(1):23-37.
35. Luh, B.S., and H.J. Phaff. July 1954. End products and mechanism of hydrolysis of pectin and pectic acid by yeast polygalacturonase (YPG). *Archives of Biochemistry and Biophysics* 51(1):102-113.
36. Demain, A.L., and H.J. Phaff. July 1954. The preparation of tetragalacturonic acid. *Archives of Biochemistry and Biophysics* 51(1):114-121.
37. Shifrine, Moshe, H.J. Phaff and A.L. Demain. July 1954. Determination of carbon assimilation patterns of yeasts by replica plating. *Journal of Bacteriology* 68(1):28-35.
38. Demain, A.L., and H.J. Phaff. Sept. 1954. Composition and action of yeast polygalacturonase. *Nature* 174:515-516.
39. Demain, Arnold L., and H.J. Phaff. Sept. 1954. Hydrolysis of the oligalacturonides and pectic acid by yeast polygalacturonase. *The Journal of Biological Chemistry* 210(1):381-393.
40. Phaff, Herman J. Jan. 1955. A new method of collecting *Drosophila* by means of sterile bait. Letter to the Editors. *American Naturalist* 70(844):53-54.
41. El Tabey Shehata, A.M., E.M. Mrak and H.J. Phaff. Nov. 1955. Yeasts isolated from *Drosophila* and from their suspected feeding places in southern and central California. *Mycologia* 47(6):799-811.
42. Phaff, H.J. 1956. A proposal for amendment of the diagnosis of the genus *Pichia hansen*. *Antonie van Leeuwenhoek* 22:113-116.
43. Phaff, H.J., and Elisa P. Knapp. 1956. The taxonomy of yeasts found in exudates of certain trees and other natural breeding sites of some species of *Drosophila*. *Antonie van Leeuwenhoek* 22:117-130.
44. Pappagianis, D., and H.J. Phaff. 1956. Delayed fermentation of sucrose by certain haploid species of *Saccharomyces*. *Antonie van Leeuwenhoek* 22:353-370.
45. Shifrine, M., and H.J. Phaff. Jan. 1956. The association of yeasts with certain bark beetles. *Mycologia* 48(1):41-55.
46. Phaff, H.J., and A.L. Demain. Feb. 1956. The unienzymatic nature of yeast polygalacturonase. *The Journal of Biological Chemistry* 218(2):875-884.
47. Phaff, H.J., M.W. Miller and M. Shifrine. June 1956. The taxonomy of yeasts isolated from *Drosophila* in the Yosemite region of California. *Antonie van Leeuwenhoek* 22(2):145-161.
48. Phaff, H.J., M.W. Miller, J.A. Recca, M. Shifrine and E. Mrak. July 1956. Studies on the ecology of *Drosophila* in the Yosemite region of California. II. Yeasts found in the alimentary canal of *Drosophila*. *Ecology* 37(3):533-538.
49. Luh, B.S., S.J. Leonard and H.J. Phaff. July 1956. Hydrolysis of pectic materials and oligouronides by tomato polygalacturonase. *Food Research* 21(4):448-455.
50. Carson, H.L., E.P. Knapp and H.J. Phaff. July 1956. Studies on the ecology of *Drosophila* in the Yosemite region of California. III. The yeast flora of the natural breeding sites of some species of *Drosophila*. *Ecology* 37(3):538-544.

51. Dobzhansky, T., D.M. Cooper, H.J. Phaff, E.P. Knapp and H.L. Carson. July 1956. Studies on the ecology of *Drosophila* in the Yosemite region of California. IV. Differential attraction of species of *Drosophila* to different species of yeasts. *Ecology* 37(3):544-550.
52. Mrak, E.M., R.H. Vaughn, M.W. Miller and H.J. Phaff. Sept. 1956. Yeasts occurring in brines during the fermentation and storage of green olives. *Food Technology* 10(9):416-419.
53. Demain, A.L., and H.J. Phaff. Jan. 1957. Softening of cucumbers during curing. *Journal of Agricultural and Food Chemistry* 5(1):60-64.
54. Demain, Arnold L., and Herman J. Phaff. June 1957. Recent advances in the enzymatic hydrolysis of pectic substances. *Wallerstein Laboratories Communication* 20(69):119-140.
55. de Camargo, Rodolpho, and H.J. Phaff. July 1957. Yeasts occurring in *Drosophila* flies and in fermenting tomato fruits in Northern California. *Food Research* 22(4):367-372.
56. Shifrine, M., and H.J. Phaff. 1958. On the isolation, ecology and taxonomy of *Saccharomycopsis guttulata*. *Antonie van Leeuwenhoek* 24(3/4):193-209.
57. Shifrine, M., and H.J. Phaff. 1958. On the cell wall composition of *Saccharomycopsis guttulata*. *Antonie van Leeuwenhoek* 24(3/4):274-280.
58. Patel, D.S., and H.J. Phaff. Nov. 1958. On the action of purified tomato polygalacturonase. *Food Research* 23(6):693-694.
59. Miller, M.W., and H.J. Phaff. Dec. 1958. A comparative study of the apiculate yeasts. *Mycopathologia et Mycologia Applicata* 10(2):113-141.
60. Miller, M.W., and H.J. Phaff. Dec. 1958. On the cell wall composition of the apiculate yeasts. *Antonie van Leeuwenhoek* 24(3/4):225-238.
61. Phaff, H.J. 1959. The production of certain extracellular enzymes by microorganisms. p.76-116, IN: W. Ruhland (ed.), **Handbuch der Pflanzenphysiologie** (Encyclopedia of Plant Physiology), Springer-Verlag, Berlin.
62. Patel, D.S., and H.J. Phaff. Feb. 1959. On the mechanism of action of yeast endo-polygalacturonase on oligogalacturonides and their reduced and oxidized derivatives. *The Journal of Biological Chemistry* 234(2):237-241.
63. Shifrine, M., and H.J. Phaff. May 1959. Nutritional requirements of *Saccharomycopsis guttulata* (Robin) Schionning. *Mycologia* 51(3):318-328.
64. Ferreira, J.D., and H.J. Phaff. Sept. 1959. Life cycle and nuclear behavior of a species of the yeast genus *Schwanniomyces*. *Journal of Bacteriology* 78(3):352-361.
65. Phaff, H.J. 1960. *Saccharomycetales; Sporobolomycetales*; Malt beverage; Ethyl alcohol; Fat and oil, edible; Distilled spirits; Food microbiology; Wine; Cryptococcales; Yeast; Yeast, industrial. p.1-2, 10-11, 80-81, 89-91, 184-188, 253-256, 423-424, 506-508, 578-579, 599-604, IN: **McGraw-Hill Encyclopedia of Science and Technology**, McGraw-Hill, New York.
66. Snyder, H.E., and H.J. Phaff. 1960. Studies on a beta-fructosidase (inulinase) produced by *Saccharomyces fragilis*. *Antonie van Leeuwenhoek* 26:433-452.
67. Patel, D.S., and H.J. Phaff. Jan. 1960. Studies on the purification of tomato

polygalacturonase. Food Research 25(1):37-46.

68. Patel, D.S., and H.J. Phaff. Jan. 1960. Properties of purified tomato polygalacturonase. Food Research 25(1):47-57.
69. Cooke, Wm. Bridge, H.J. Phaff, M.W. Miller, M. Shifrine and Elisa P. Knapp. March 1960. Yeasts in polluted water and sewage. Mycologia 52(2):210-230.
70. Phaff, H.J., M.W. Miller and Wm. Bridge Cooke. June 1960. A new species of *Schwanniomyces*: *Schwanniomyces alluvius*. Antonie van Leeuwenhoek 26(2):182-188.
71. Phaff, H.J., and M. Yoneyama. 1961. *Endomycopsis scolyti*, a new heterothallic species of yeast. Antonie van Leeuwenhoek 27:196-202.
72. Delisle, Allan L., and Herman J. Phaff. 1961. The release of nitrogenous substances by brewers yeast. American Society of Brewing Chemists Proceedings 1961:103-118.
73. Phaff, H.J., and M.W. Miller. Sept. 1961. A specific microflora associated with the fig wasp, *Blastophaga psenes* Linnaeus. Journal of Insect Pathology 3(3):233-243.
74. Phaff, H.J., and Lidia do Carmo-Sousa. 1962. Four new species of yeast isolated from insect frass in bark of *Tsuga heterophylla* (Raf.) Sargent. Antonie van Leeuwenhoek 28:193-207.
75. Miller, M.W., H.J. Phaff and H.E. Snyder. Jan. 1962. On the occurrence of various species of yeast in nature. Mycopathologia et Mycologia Applicata 16(1):1-18.
76. do Carmo-Sousa, L., and H.J. Phaff. Feb. 1962. An improved method for the detection of spore discharge in the *Sporobolomycetaceae*. Journal of Bacteriology 83(2):434-435.
77. Snyder, H.E., and H.J. Phaff. Aug. 1962. The pattern of action of inulinase from *Saccharomyces fragilis* on inulin. The Journal of Biological Chemistry 237(8):2438-2441.
78. Miller, M.W., and H.J. Phaff. Sept. 1962. Successive microbial populations in *Calimyrna* figs. Applied Microbiology 10(5):394-400.
79. Gorin, P.A.J., J.F.T. Spencer and H.J. Phaff. Oct. 1962. The synthesis of beta-galacto- and beta-gluco-pyranosyl disaccharides by *Sporobolomyces singularis*. Canadian Journal of Chemistry 42(10):2307-2317.
80. Lewis, M.J., and H.J. Phaff. 1963. Release of nitrogenous substances by brewers' yeast. 2. Effect of environmental conditions. American Society of Brewing Chemists Proceedings 1963:114-123.
81. Phaff, H.J. 1963. Cell wall of yeasts. Annual Review of Microbiology 17:15-30.
82. Macmillan, James D., Herman J. Phaff and R.H. Vaughn. April 1964. The pattern of action of an exopolygalacturonic acid-trans-eliminase from *Clostridium multif fermentans*. Biochemistry 3(4):572-578.
83. Phaff, H.J., M.W. Miller and J.F.T. Spencer. June 1964. Two new species of *Pichia* isolated from slime fluxes of deciduous trees. Antonie van Leeuwenhoek 30(2):132-140.
84. Gorin, P.A.J., J.F.T. Spencer and H.J. Phaff. June 1964. The structures of galactosyl-lactose and galactobiosyl-lactose produced from lactose by *Sporobolomyces singularis*. Canadian Journal of Chemistry 42(6):1341-1344.

85. Lewis, M.J., and H.J. Phaff. June 1964. Release of nitrogenous substances by brewers' yeast. III. Shock excretion of amino acids. *Journal of Bacteriology* 87(6):1389-1396.
86. Edstrom, R.D., and H.J. Phaff. Aug. 1964. Purification and certain properties of pectin trans-eliminase from *Aspergillus fonsecaeus*. *The Journal of Biological Chemistry* 239(8):2403-2408.
87. Edstrom, R.D., and H.J. Phaff. Aug. 1964. Eliminative cleavage of pectin and of oligogalacturonide methyl esters by pectin trans-eliminase. *The Journal of Biological Chemistry* 239(8):2409-2415.
88. Spencer, J.F.T., H.J. Phaff and N.R. Gardner. Sept. 1964. *Metschnikowia kamienskii*, sp. n., a yeast associated with brine shrimp. *Journal of Bacteriology* 88(3):758-762.
89. Phaff, H.J., M. Yoneyama and L. do Carmo-Sousa. Oct. 1964. A one-year quantitative study of the yeast flora in a single slime flux of *Ulmus carpiniifolia* Gled. *Rivista di Patologia Vegetale* 4(3):485-497.
90. Reymond, Dominique, and H.J. Phaff. March 1965. Purification and certain properties of avocado polygalacturonase. *Journal of Food Science* 30(2):266-273.
91. Lewis, M.J., and H.J. Phaff. April 1965. Release of nitrogenous substances by brewers yeast. IV. Energetics in shock excretion of amino acids. *Journal of Bacteriology* 89(4):960-966.
92. Tanaka, Hirosata, and Herman J. Phaff. June 1965. Enzymatic hydrolysis of yeast cell walls. I. Isolation of wall-decomposing organisms and separation and purification of lytic enzymes. *Journal of Bacteriology* 89(6):1570-1580.
93. Phaff, H.J., M.W. Miller and E.M. Mrak. 1966. **The Life of Yeasts**. Harvard University Press, Cambridge, Massachusetts, 186 p.
94. Macmillan, J.D., and H.J. Phaff. 1966. Exopolygalacturonate lyase from *Clostridium multif fermentans*. p.632-635, IN: E.F. Neufeld and V. Ginsburg (eds.), **Methods in Enzymology, Volume 8, Complex Carbohydrates**, Academic Press, New York.
95. Phaff, H.J. 1966. Alpha-1,4-polygalacturonide glucanohydrolase (endopolygalacturonase) from *Saccharomyces fragilis*. p.636-641, IN: E.F. Neufeld and V. Ginsburg (eds.), **Methods in Enzymology, Volume 8, Complex Carbohydrates**, Academic Press, New York.
96. Tanaka, Hirosata, and Herman J. Phaff. 1966. Enzymatic hydrolysis of yeast cell walls. II. Susceptibilities of isolated cell walls and ascus walls of various yeasts to the actions of bacterial endo-beta-glucanases. *Proceedings, German Academy of Science, East Berlin, Section for Medicine* 1968(6):113-129, 353-357.
97. Fell, J.W., and H.J. Phaff. 1966. Three new yeasts: *Cryptococcus dimenna*, *Cryptococcus kutzingii* and *Cryptococcus lactativorus* spp. n. *Antonie van Leeuwenhoek* 33(4):464-472.
98. Phaff, H.J., and J.F.T. Spencer. July 1966. Improved parameters in the separation of species in the genera *Rhodotorula* and *Cryptococcus*. p.59-65, IN: *Proceedings, Second International Symposium on Yeasts*, Bratislava.
99. Abd-El-Al, Ahmed T.H., and H.J. Phaff. Sept. 1968. Exo-beta-glucanases in yeast. *Biochemical Journal* 109(3):347-360.
100. Fell, J.W., Adele C. Statzell, Ingrid L. Hunter and H. J. Phaff. 1969. *Leucosporidium* gen. n.,

the heterobasidiomycetous stage of several yeasts of the genus *Candida*. Antonie van Leeuwenhoek 35:433-462.

101. Meyer, Sally A., and H.J. Phaff. Jan. 1969. Deoxyribonucleic acid base composition in yeasts. *Journal of Bacteriology* 97(1):52-56.
102. Storck, R.C., J. Alexopoulos and H.J. Phaff. June 1969. Nucleotide composition of deoxyribonucleic acid of some species of *Cryptococcus*, *Rhodotorula*, and *Sporobolomyces*. *Bacteriology* 98(3):1069-1072.
103. Abd-El-Al, Ahmed T.H., and H.J. Phaff. July 1969. Purification and properties of endo-beta-glucanase in the yeast *Hanseniaspora valbyensis*. *Canadian Journal of Microbiology* 15(7):697-701.
104. Phaff, H.J. 1970. Genus *Hanseniaspora* Zikes. p.209-225, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
105. Phaff, H.J. 1970. Genus *Saccharomycodes* Hansen. p.719-724, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
106. Phaff, H.J. 1970. Genus *Saccharomycopsis* Schionning. p.725-732, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
107. Phaff, H.J. 1970. Genus *Schwanniomyces* Klocker. p.756-766, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
108. Phaff, H.J. 1970. Genus *Wickerhamia* Soneda. p.767-771, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
109. Phaff, H.J. 1970. Genus *Kloeckera* Janke. p.1146-1160, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
110. Phaff, H.J., and J.W. Fell. 1970. Genus *Cryptococcus* Kutzinger emend. Phaff et Spencer. p.1088-1145, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
111. Phaff, H.J., and D.G. Ahearn. 1970. Genus *Rhodotorula* Harrison. p.1187-1223, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
112. Phaff, H.J. 1970. Genus *Sporidiobolus* Nyland. p.822-830, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
113. Fell, J.W., H.J. Phaff and S.Y. Newell. 1970. Genus *Rhodosporidium* Banno. p.803-814, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
114. Phaff, H.J. 1970. Genus *Bullera* Derx. p.815-821, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
115. Phaff, H.J. 1970. Genus *Sporobolomyces* Kluyver et van Niel. p.831-862, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
116. Phaff, H.J. 1970. Genus *Nadsonia* Sydow. p.430-439, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.
117. Fell, J.W., and H.J. Phaff. 1970. Genus *Leucosporidium* Fell, Stetzell, Hunter and Phaff.

p.776-802, IN: J. Lodder (ed.), **The Yeasts - A Taxonomic Study**, North Holland Publishing Co., Amsterdam.

118. Buecher, E.J., and H.J. Phaff. 1970. Cell wall composition of *Saccharomyopsis* Schionning. Proceedings of the Second International Symposium on Yeast Protoplasts, Brno, Czechoslovakia, August 20-23, 1968. *Acta Facultatis Medicae Universitatis Brunensis* 37:165-170.
119. Foda, Mohamed Salah, and Herman J. Phaff. 1970. The synthesis of starch-like compounds by *Cryptococcus laurentii*. p.181-198, IN: C.G. Ahearn (ed.), **Recent Trends in Yeast Research**, Georgia State University, Georgia.
120. Meyer, Sally A., and H.J. Phaff. 1970. Taxonomic significance of DNA base composition in yeasts. p.1-29, IN: C.G. Ahearn (ed.), **Recent Trends in Yeast Research**, Georgia State University, Georgia.
121. Atkin, C.L., J.B. Neilands and H.J. Phaff. Sept. 1970. Rhodotorulic acid from species of *Leucosporidium*, *Rhodospiridium*, *Rhodotorula*, *Sporidiobolus* and *Sporobolomyces*, and a new alanine-containing ferrichrome from *Cryptococcus melibiosum*. *Journal of Bacteriology* 103(3):722-733.
122. Buecher, Edward J., and Herman J. Phaff. Oct. 1970. Growth of *Saccharomyopsis* Schionning under continuous gassing. *Journal of Bacteriology* 104(1):133-137.
123. Phaff, H.J. 1971. Structure and biosynthesis of the yeast cell envelope. p.135-210, IN: A.H. Rose and J.S. Harrison (eds.), **The Yeasts, Volume 2, Physiology and Biochemistry of Yeasts**, Academic Press, New York.
124. Simpson, K.L., C.O. Chichester and H.J. Phaff. 1971. Carotenoid pigments of yeasts. p.493-515, IN: A.H. Rose and J.S. Harrison (eds.), **The Yeasts, Volume 2, Physiology and Biochemistry of Yeasts**, Academic Press, New York.
125. Phaff, Herman J., Martin W. Miller, Minoru Yoneyama and Masumi Soneda. 1972. A comparative study of the yeast floras associated with trees on the Japanese Islands and on the west coast of North America. p.759-774, IN: Gyozo Terui (ed.), **Fourth International Fermentation Symposium Proceedings: Fermentation Technology Today**, Society of Fermentation Technology, Osaka, Japan.
126. Meyer, S.A., and H.J. Phaff. 1972. DNA base composition and DNA-DNA homology studies as tools in yeast systematics. p.375-386, IN: **Yeast Models in Science and Technics, Proceedings of the First Specialized International Symposium on Yeasts**, Smolenice, Czechoslovakia, Slovak Academy of Sciences,
127. Buecher, Edward J., and Herman J. Phaff. June 1972. Dimorphism in a new isolate of *Saccharomyopsis* Schionning. *Canadian Journal of Microbiology* 18(6):901-907.
128. Martini, Alessandro, Herman J. Phaff and Stephen A. Douglass. Aug. 1972. Deoxyribonucleic acid base composition of species in the yeast genus *Kluyveromyces* van der Walt emend. van der Walt. *Journal of Bacteriology* 111(2):481-487.
129. Macmillan, James D., and Herman J. Phaff. 1973. Yeasts - general survey. p.351-372, IN: A.I. Laskin and H.A. Lechevalier (eds.), **CRC Handbook of Microbiology, Volume I**, CRC Press, Cleveland, Ohio.
130. Phaff, Herman J., and James D. Macmillan. 1973. Description of various genera and species



of special interest. p.373-389, IN: A.I. Laskin and H.A. Lechevalier (eds.), **CRC Handbook of Microbiology, Volume 1**, CRC Press, Cleveland, Ohio.

131. Fleet, Graham H., and Herman J. Phaff. 1973. Effect of glucanases of yeast and bacterial origin on cell walls of *Schizosaccharomyces* species. p.33-59, IN: J.R. Villanueva, I. Garcia-Acha, S. Gascon and F. Uruburu (eds.), **Proceedings of the Third International Symposium on Yeast Protoplasts**, Academic Press, London.
132. Foda, Mohamed Salah A., Samir M. Badr-Eldin and Herman J. Phaff. March 1973. Biochemical investigation on the capsule-amylose relationship in *Cryptococcus laurentii*. *Mycologia* 65(2):365-372.
133. Martini, A., and H.J. Phaff. 1974. The optical determination of DNA-DNA homologies in yeasts. *Annali di Microbiologia (Milan)* 23:59-68.
134. Fleet, Graham H., and Herman J. Phaff. March 1974. Glucanases in *Schizosaccharomyces*; Isolation and properties of the cell wall-associated  $\beta$ -(1T3)-glucanases. *The Journal of Biological Chemistry* 249(6):1717-1728).
135. Mendonca-Hagler, Leda C., L.R. Travassos, K.O. Lloyd and H.J. Phaff. May 1974. Deoxyribonucleic acid base composition and hybridization studies on the human pathogen *Sporothrix schenckii* and *Ceratocystis* species. *Infection and Immunity* 9(5):934-938.
136. Kopecka, Marie, H.J. Phaff and G.H. Fleet. July 1974. Demonstration of a fibrillar component in the cell wall of the yeast *Saccharomyces cerevisiae* and its chemical nature. *The Journal of Cell Biology* 62:66-76.
137. Phaff, H.J., M.W. Miller, Mary Miranda, W.B. Heed and W.T. Starmer. Oct. 1974. *Cryptococcus cereanus*, a new species of the genus *Cryptococcus*. *International Journal of Systematic Bacteriology* 24(4):486-490.
138. Fleet, Graham H., and Herman J. Phaff. Oct. 1974. Lysis of yeast cell walls: Glucanases from *Bacillus circulans* WL-12. *Journal of Bacteriology* 19(1):207-219.
139. Kopecka, Marie, and H.J. Phaff. Dec. 1974. On the ultrastructure of the yeast cell wall. *Biologia* 29(12):927-936.
140. Mendonca-Hagler, Leda C., and Herman J. Phaff. April 1975. Deoxyribonucleic acid base composition and deoxyribonucleic acid/deoxyribonucleic acid hybrid formation in psychrophobic and related yeasts. *International Journal of Systematic Bacteriology* 25(2):222-229.
141. Lachance, Marc-Andre, and Herman J. Phaff. Aug. 1975. A rapid method for monitoring the activity of certain carbohydrases. *Analytical Biochemistry* 67(2):661-663.
142. Fleet, Graham H., and Herman J. Phaff. Dec. 1975. Glucanases in *Schizosaccharomyces*: Isolation and properties of an exo-beta-glucanase from the cell extracts and culture fluid of *Schizosaccharomyces japonicus* var. *versatilis*. *Biochimica et Biophysica Acta* 410(2):318-322.
143. Heed, William B., William T. Starmer, Mary Miranda, Martin W. Miller and Herman J. Phaff. 1976. An analysis of the yeast flora associated with cactiphilic *Drosophila* and their host plants in the Sonoran Desert and its relation to temperate and tropical associations. *Ecology* 57(1):151-160.

144. Miller, M.W., H.J. Phaff, Mary Miranda, W.B. Heed and W.T. Starmer. Jan. 1976. *Torulopsis sonorensis*, a new species of the genus *Torulopsis*. *International Journal of Systematic Bacteriology* 26(1):88-91.
145. Starmer, W.T., W.B. Heed, Mary Miranda, M.W. Miller and H.J. Phaff. Jan. 1976. The ecology of yeast flora associated with cactiphilic *Drosophila* and their host plants in the Sonoran desert. *Microbial Ecology* 3(1):11-30.
146. Rombouts, Frank M., and Herman J. Phaff. March 1976. Lysis of yeast cell walls; Lytic  $\beta$ -(1T3)-glucanases from *Bacillus circulans* WL-12. *European Journal of Biochemistry* 63:121-130.
147. Rombouts, Frank M., and Herman J. Phaff. March 1976. Lysis of yeast cell walls; Lytic  $\beta$ -(1T6)-glucanases from *Bacillus circulans* WL-12. *European Journal of Biochemistry* 63:109-120.
148. Andrewes, Arthur G., Herman J. Phaff and Mortimer P. Starr. June 1976. Carotenoids of *Phaffia rhodozyma*, a red-pigmented fermenting yeast. *Phytochemistry* 15(6):1003-1007.
149. Phaff, H.J., M.W. Miller and Mary Miranda. July 1976. *Pichia scutulata*, a new species from tree exudates. *International Journal of Systematic Bacteriology* 26(3):326-331.
150. Lachance, Marc-Andre, Mary Miranda, Martin W. Miller and Herman J. Phaff. Dec. 1976. Dehiscence and active spore release in pathogenic strains of the yeast *Metschnikowia bicuspidata* var. *australis*: Possible predatory implication. *Canadian Journal of Microbiology* 22(12):1756-1761.
151. Phaff, H.J. 1977. Enzymatic yeast cell wall degradation. Chapter 8, p.244-282, IN: R.E. Feeney and J.R. Whitaker (eds), **Food Proteins; Improvement Through Chemical and Enzymatic Modification**, Advances in Chemistry Series #160, American Chemical Society, Washington, D.C.
152. Villa, T.G., M.A. Lachance and H.J. Phaff. May 1977. On the structure of the  $\beta$ -(1T3)-glucan component of the cell wall of baker's yeast. *FEMS Microbiology Letters* 1:317-319.
153. Meyer, Melvin T., and H.J. Phaff. Aug. 1977. Survey for  $\alpha$ -(1T3)-glucanase activity among yeasts. *Journal of Bacteriology* 131(2):702-706.
154. Price, C.W., Gayle B. Fuson and H.J. Phaff. Sept. 1977. Trends in yeast systematics: Molecular approaches. p.3-35, IN: Proceedings of the 5th International Special Symposium on Yeasts, Part II, Kesztheley, Hungary, September 12-15, 1977.
155. Lachance, Marc-Andre, Thomas G. Villa and Herman J. Phaff. Sept. 1977. Purification and partial characterization of an *exo*-beta-glucanase from the yeast *Kluyveromyces aestuarii*. *Canadian Journal of Biochemistry* 55(9):1001-1006.
156. Phaff, H.J., M.W. Miller and E.M. Mrak. 1978. **The Life of Yeasts**, 2nd ed. Harvard University Press, Cambridge, Massachusetts, 341 pp.
157. Johnson, Eric A., and Herman J. Phaff. 1978. *Rhodotorula fujisanensis*, a new taxonomic combination. *Current Microbiology* 1(4):223-225.
158. Macmillan, J.D., and H.J. Phaff. 1978. Yeasts: general survey. p.207-228, IN: A.I. Laskin and H.A. Lechavalier (eds.), **CRC Handbook of Microbiology, Volume II: Fungi, Algae, Protozoa, and Viruses**, 2nd ed., CRC Press, West Palm Beach, Florida.
159. Phaff, H.J., and J.D. Macmillan. 1978. Description of various genera and species of special

interest. p.229-250, IN: A.I. Laskin and H.A. Lechevalier (eds.), **CRC Handbook of Microbiology, Volume II: Fungi, Algae, Protozoa, and Viruses**, 2nd ed., CRC Press, West Palm Beach, Florida.

160. Villa, Tomas G., Marc-Andre Lachance and Herman J. Phaff. March 1978. Beta-glucanases of the yeast *Kluyveromyces phaseolusporus*: partial purification and characterization. *Experimental Mycology* 2(1):12-25.
161. Price, C.W., Gayle B. Fuson and H. J. Phaff. March 1978. Genome comparison in yeast systematics: Delimitation of species within the genera *Schwanniomyces*, *Saccharomyces*, *Debaryomyces*, and *Pichia*. *Microbiological Reviews* 42(1):161-193.
162. Foda, M.S., and H.J. Phaff. March 1978. Properties and kinetics of glucan phosphorylase of the amylose-forming yeast *Cryptococcus laurentii*. *Zeitschrift fuer Allgemeine Mikrobiologie* 18(2):95-106.
163. Starmer, W.T., H.J. Phaff, Mary Miranda and M.W. Miller. April 1978. *Pichia cactophila*, a new species of yeast found in decaying tissue of cacti. *International Journal of Systematic Bacteriology* 28(2):318-325.
164. Phaff, H.J., W.T. Starmer, Mary Miranda and M.W. Miller. April 1978. *Pichia heedii*, a new species of yeast indigenous to necrotic cacti in the North American Sonoran Desert. *International Journal of Systematic Bacteriology* 28(2):326-331.
165. Johnson, Eric A., Tomas G. Villa, Michael J. Lewis and Herman J. Phaff. June 1978. Simple method for the isolation of astaxanthin from the basidiomycetous yeast *Phaffia rhodozyma*. *Applied and Environmental Microbiology* 35(6):1155-1159.
166. Starmer, W.T., H.J. Phaff, Mary Miranda and M.W. Miller. July 1978. *Pichia amethionina*, a new heterothallic yeast associated with the decaying stems of cereoid cacti. *International Journal of Systematic Bacteriology* 28(3):433-441.
167. Rombouts, Frank M., Graham H. Fleet, David J. Manners and Herman J. Phaff. July 1978. Lysis of yeast cell-walls: Non-lytic and lytic (1T6)- $\beta$ -D-glucanases from *Bacillus circulans* WL-12. *Carbohydrate Research* 64:237-249.
168. Bassel, J., H.J. Phaff, R.K. Mortimer and M. Miranda. July 1978. Examination of "hydrocarbon-utilizing mutants of *Saccharomyces cerevisiae*". *International Journal of Systematic Bacteriology* 28(3):427-432.
169. Phaff, Herman J., and Maynard A. Amerine. 1979. Wine. p.131-153, IN: H.J. Peppler and D. Perlman (eds.), **Microbial Technology. v.2, Fermentation Technology**, 2nd ed., Academic Press, New York.
170. Phaff, H.J., and C.W. Price. 1979. Strengths and weaknesses of traditional criteria in the systematics of yeasts as revealed by nuclear genome comparison. p.1-12, IN: S. Garattini, S. Pagliarlunga and N.S. Scrimshaw (eds.), **Single-Cell Protein; Safety for Animal and Human Feeding**, Proceedings of the Protein-Calorie Advisory Group of the United Nations System, Pergamon Press, Oxford.
171. Fuson, Gayle B., C.W. Price and H.J. Phaff. Jan. 1979. Deoxyribonucleic acid sequence relatedness among some members of the yeast genus *Hansenula*. *International Journal of Systematic Bacteriology* 29(1):64-69.
172. Lachance, Marc-Andre, and Herman J. Phaff. Jan. 1979. Comparative study of molecular size

and structure of exo-beta-glucanases from *Kluyveromyces* and other yeast genera: Evolutionary and taxonomic implications. *International Journal of Systematic Bacteriology* 29(1):70-78.

173. Phaff, H.J., M.W. Miller and Mary Miranda. Jan. 1979. *Hansenula alni*, a new heterothallic species of yeast from exudates of alder trees. *International Journal of Systematic Bacteriology* 29(1):60-63.
174. Price, C.W., and H.J. Phaff. March 1979. *Debaryomyces polymorphus* and *D. pseudopolymorphus*, new taxonomic combinations. *Mycologia* 71(2):444-445.
175. Starmer, W.T., H.J. Phaff, Mary Miranda, M.W. Miller and J.S.F. Barker. April 1979. *Pichia opuntiae*, a new heterothallic species of yeast found in decaying cladodes of *Opuntia inermis* and in necrotic tissue of cereoid cacti. *International Journal of Systematic Bacteriology* 29(2):159-167.
176. Phaff, H.J. July 1979. A retrospective and current view on endogenous beta-glucanases in yeast. p.171-182, IN: *Advances in Protoplast Research, Proceedings of the 5th International Protoplast Symposium, Hungarian Academy of Sciences, Budapest, July 9-14.*
177. Holzschu, Donald L., Heather L. Presley, Mary Miranda and Herman J. Phaff. Aug. 1979. Identification of *Candida lusitaniae* as an opportunistic yeast in humans. *Journal of Clinical Microbiology* 10(2):202-205.
178. Johnson, Eric A., Tomas G. Villa, Michael J. Lewis and Herman J. Phaff. Aug. 1979. Lysis of the cell wall of the yeast *Phaffia rhodozyma* by a lytic enzyme complex from *Bacillus circulans* WL-12. *Journal of Applied Biochemistry* 1(4):273-282.
179. Villa, Tomas G., Herman J. Phaff and Vicente Notario. Sept. 1979. A method for preparing laminaribiose by using yeast endo-(1T3)- $\beta$ -D-glucanase. *Carbohydrate Research* 74:369-370.
180. Lutwick, Larry I., Herman J. Phaff and David A. Stevens. 1980. *Kluyveromyces fragilis* as an opportunistic fungal pathogen in man. *Sabouraudia* 18:69-73.
181. Phaff, H.J., and W.T. Starmer. 1980. Specificity of natural habitats for yeasts and yeast-like organisms. p.79-102, IN: F.A. Skinner, Susan M. Passmore and R.R. Davenport (eds.), **Biology and Activities of Yeasts**, Society for Applied Bacteriology Symposium Series No. 9, Academic Press, New York.
182. Starmer, William T., Henry W. Kircher and Herman J. Phaff. Jan. 1980. Evolution and speciation of host plant specific yeasts. *Evolution* 34(1):137-146.
183. Fuson, Gayle B., C.W. Price and H.J. Phaff. Jan. 1980. Deoxyribonucleic acid base sequence relatedness among strains of *Pichia ohmeri* that produce dimorphic ascospores. *International Journal of Systematic Bacteriology* 30(1):217-219.
184. Villa, T.G., and H.J. Phaff. Feb. 1980. Recovery of invertase and laminarinases from industrial waste broths of baker's yeast. *European Journal of Applied Microbiology and Biotechnology* 9(1):9-14.
185. Meyer, Melvin T., and H.J. Phaff. May 1980. Purification and properties of (1T3)- $\alpha$ -glucanases from *Bacillus circulans* WL-12. *Journal of General Microbiology* 118(1):197-208.
186. Phaff, H.J., W.R. Starmer, Mary Miranda and M.W. Miller. July 1980. *Candida mucilagina*, a new species of yeast found in decaying cladodes of *Opuntia inermis* and in necrotic tissue of

- ceroid cacti. *International Journal of Systematic Bacteriology* 30(3):596-600.
187. Fleet, G.H., and H.J. Phaff. 1981. Fungal glucans--Structure and metabolism. p.416-440, IN: W. Tanner and F.A. Loewus (eds.), **Plant Carbohydrates II. Extracellular Carbohydrates**, Springer-Verlag, New York.
  188. Phaff, H.J., and D.L. Holzschu. 1981. Genome comparison in yeast systematics: Evolutionary divergence among cactus-specific yeasts. p.413-427, IN: D. von Wettstein, J. Friis, M. Kielland-Brandt and A. Stenderup (eds.), **Molecular Genetics in Yeast**, Alfred Benzon Symposium 16, Munksgaard, Copenhagen.
  189. Holzschu, Donald L., Joanne Tredick and Herman J. Phaff. April 1981. Validation of the yeast *Sporidiobolus ruinenii* based on its deoxyribonucleic acid relatedness to other species of the genus *Sporidiobolus*. *Current Microbiology* 5(2):73-76.
  190. El-Nakhal, Hamza, and H.J. Phaff. June 1981. Possible relationship between yeast deoxyribonucleases and deoxyribonucleic acid yield. *Applied and Environmental Microbiology* 41(6):1482-1483.
  191. Phaff, Herman J. Sept. 1981. Industrial microorganisms. *Scientific American* 245(3):76-89.
  192. Meyer, M.T., and H.J. Phaff. Oct. 1981. An enzymatic method for the determination of yeast cell wall glucan in foods. *Journal of Food Science* 46(5):1489-1492, 1497.
  193. Yamada, Yuzo, Joji Sasaki, Chin Fei Hou, Yasutaka Tahara, Mary Miranda and Herman Jan Phaff. Nov. 1981. A new natural quinone, ubiquinone-5 isolated from an ascosporeogenous yeast species *Nematospora coryli*. *Agricultural and Biological Chemistry* 45(11):2671-2673.
  194. Starmer, William T., Herman J. Phaff, Mary Miranda, Martin W. Miller and William B. Heed. 1982. The yeast flora associated with the decaying stems of columnar cacti and *Drosophila* in North America. p.269-295, IN: Max K. Hecht, Bruce Wallace and Chilleen T. Prance (eds.), **Evolutionary Biology**, v.14, Plenum Publishing Co., New York.
  195. Phaff, H.J. 1982. The species concept in yeast; Physiologic, morphologic, genetic, and ecologic parameters. p.635-643, IN: Graham G. Stewart and Inge Russell (eds.), Current Developments in Yeast Research, *Advances in Biotechnology, Proceedings of the VIth International Fermentation Symposium 1980 and Vth International Symposium on Yeasts*, Pergamon Press, Toronto, Canada.
  196. Holzschu, D.L., and H.J. Phaff. 1982. Taxonomy and evolution of some Ascomycetous cactophilic yeasts. p.127-141, IN: J.S.F. Barker and W.T. Starmer (eds.), **Ecological Genetics and Evolution - The Cactus-Yeast-Drosophila Model System**, Academic Press, Sydney, Australia.
  197. El-Nakhal, H., H.J. Phaff and M. Miranda. 1982. Identification of yeasts isolated from Al-Hassa Oasis, Saudi Arabia. p.85-90, IN: *Proceedings, Fourth Conference on the Biological Aspects of Saudi Arabia*, Saudi Biological Society, Riyadh, Saudi Arabia.
  198. Phaff, H.J., M.W. Miller and E.M. Mrak. 1982. **The Life of Yeasts** (Japanese edition). Gakkai Shuppan Ltd., Tokyo.
  199. Miranda, Mary, D.L. Holzschu, H.J. Phaff and W.T. Starmer. Jan. 1982. *Pichia mexicana*, a new heterothallic yeast from cereoid cacti in the North American Sonoran Desert. *International Journal of Systematic Bacteriology* 32(1):101-107.

200. Barker, J.S.R., G.L. Toll, P.D. East, M. Miranda and H.J. Phaff. Jan. 1983. Heterogeneity of the yeast flora in the breeding sites of cactophilic *Drosophila*. *Canadian Journal of Microbiology* 29(1):6-14.
201. Phaff, H.J., Yuzo Yamada, Joanne Tredick and Mary Miranda. April 1983. *Hansenula populi*, a new homothallic species of yeast from exudates of cottonwood trees. *International Journal of Systematic Bacteriology* 33(2):375-380.
202. Kurtzman, C.P., H.J. Phaff and S.A. Meyer. 1983. Nucleic acid relatedness among yeasts. p.139-166, IN: J.F.T. Spencer, D.M. Spencer and A.R.W. Smith (eds.), **Yeast Genetics, Fundamental and Applied Aspects**, Springer-Verlag, New York.
203. Starmer, William T., and Herman J. Phaff. 1983. Analysis of the community structure of yeasts associated with the decaying stems of cactus. II. *Opuntia* species. *Microbial Ecology* 9(3):247-249.
204. Holzschu, Donald L., Herman J. Phaff and Joanne Tredick. Oct. 1983. *Pichia pseudocactophila*, a new species of yeast occurring in necrotic tissue of columnar cacti in the North American Sonoran Desert. *Canadian Journal of Microbiology* 29(10):1314-1322.
205. Gueho, Eveline and H.J. Phaff. 1983. *Pichia norvegensis*, teleomorphe de *Candida norvegensis*: validation par homologie chromosomique. *Bulletin de la Société Française de Mycologie Medicale* 12:203-207.
206. Gueho, Eveline, Joanne Tredick and H.J. Phaff. Feb. 1984. DNA base composition and DNA relatedness among species of *Trichosporon* Behrend. *Antonie van Leeuwenhoek* 50(1):17-32.
207. Starmer, William T., Herman J. Phaff, Joanne Tredick, Mary Miranda and Virginia Aberdeen. July 1984. *Pichia antillensis*, a new species of yeast associated with necrotic stems of cactus in the Lesser Antilles. *International Journal of Systematic Bacteriology* 34(3):350-354.
208. Phaff, H.J. 1984. DNA, enzymes and cell wall. p.17-21, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
209. Phaff, H.J. 1984. Chemical composition of the cell wall. p.22-24, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
210. Phaff, H.J. 1984. Genus 5. *Coccidiascus* Chatton. p.123-124, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
211. Phaff, H.J., and M.W. Miller. 1984. Genus 6. *Cyniclomyces* van der Walt et Scott. p.125-129, N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
212. Phaff, H.J., and C.P. Kurtzman. 1984. Genus 14. *Lipomyces* Lodder et Kreger-van Rij. p.252-262, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
213. Miller, M.W., and H.J. Phaff. 1984. Genus 16. *Metschnikowia* Kamienski. p.266-278, N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
214. Miller, M.W., and H.J. Phaff. 1984. Genus 17. *Nadsonia* Sydow. p.279-284, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers,

Amsterdam.

215. Miller, M.W., and H.J. Phaff. 1984. Genus 18. *Nematospora* Peglion. p.285-288, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
216. Miller, M.W., and H.J. Phaff. 1984. Genus 23. *Saccharomyces* Hansen. p.396-398, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
217. Phaff, H.J., and M.W. Miller. 1984. Genus 26. *Schwanniomyces* Klocker. p.423-426, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
218. Phaff, H.J., and M.W. Miller. 1984. Genus 30. *Wickerhamia* Soneda. p.440-442, IN: N.J.W. Kreger-van Rij (ed.), **The Yeasts; A Taxonomic Study**, 3rd ed., Elsevier Science Publishers, Amsterdam.
219. Barker, J.S.F., P.D. East, H.J. Phaff and M. Miranda. Dec. 1984. The ecology of the yeast flora in necrotic *Opuntia* cacti and of associated *Drosophila* in Australia. *Microbial Ecology* 10(4):379-399.
220. Phaff, Herman J., William T. Starmer, Joanne Tredick and Mary Miranda. April 1985. *Pichia deserticola* and *Candida deserticola*, two new species of yeasts associated with necrotic stems of cacti. *International Journal of Systematic Bacteriology* 35(2):211-216.
221. Gueho, Eveline, Joanne Tredick and Herman J. Phaff. May 1985. DNA relatedness among species of *Geotrichum* and *Dipodascus*. *Canadian Journal of Botany* 63(5):961-966.
222. Holzschu, D.L., H.J. Phaff, Joanne Tredick and Dennis Hedgecock. Oct. 1985. Resolution of the varietal relationship within the species *Pichia opuntiae* and establishment of a new species, *Pichia thermotolerans* comb. nov. *International Journal of Systematic Bacteriology* 35(4):457-461.
223. Mendonca-Hagler, Leda Cristina, Allen N. Hagler, H.J. Phaff and Joanne Tredick. Oct. 1985. DNA relatedness among aquatic yeasts of the genus *Metschnikowia* and proposal of the species *Metschnikowia australis* comb. nov. *Canadian Journal of Microbiology* 31(10):905-909.
224. Phaff, Herman J. 1985. Biology of yeasts other than *Saccharomyces*. p.537-562, IN: Arnold L. Demain and Nadine A. Solomon (eds.), **Biology of Industrial Microorganisms**, Benjamin/Cummings Publishing Co., London.
225. Phaff, H.J. March 1986. Ecology of yeasts with actual and potential value in biotechnology. *Microbial Ecology* 12(1):31-42.
226. Starmer, William T., J.S.F. Barker, Herman J. Phaff and James C. Fogleman. 1986. Adaptations of *Drosophila* and yeasts: Their interactions with the volatile 2-propanol in the cactus-microorganism-*Drosophila* model system. *Australian Journal of Biological Sciences* 39(1):69-77.
227. Phaff, Herman J., Mary Miranda, William T. Starmer, Joanne Tredick and J. Stuart F. Barker. July 1986. *Clavispora opuntiae*, a new heterothallic yeast occurring in necrotic tissue of *Opuntia* species. *International Journal of Systematic Bacteriology* 36(3):372-379.
228. Phaff, Herman J. 1986. My life with yeasts. *Annual Reviews of Microbiology* 40:1-28.

229. Lachance, Marc-Andre, Herman J. Phaff, William T. Starmer, Alice Moffitt and Lorraine G. Olson. Oct. 1986. Interspecific discontinuity in the genus *Clavispora* Rodrigues de Miranda by phenetic analysis, genomic deoxyribonucleic acid reassociation, and restriction mapping of ribosomal deoxyribonucleic acid. *International Journal of Systematic Bacteriology* 36(4):524-530.
230. Ganter, Philip F., William T. Starmer, Marc-Andre Lachance and Herman J. Phaff. Oct. 1986. Yeast communities from host plants and associated *Drosophila* in southern Arizona: new isolations and analysis of the relative importance of hosts and vectors on community composition. *Oecologia* 70(3):386-392.
231. Starmer, William T., Philip F. Ganter and Herman J. Phaff. Nov. 1986. Quantum and continuous evolution of DNA base composition in the yeast genus *Pichia*. *Evolution* 40(6):1263-1274.
232. Kurtzman, C.P., and H.J. Phaff. 1987. Molecular taxonomy. Chapt. 3, p.63-94, IN: A.H. Rose and J.S. Harrison (eds.), **The Yeasts, Volume 1: Biology of Yeasts**, 2nd ed., Academic Press, Orlando, Florida.
233. Phaff, Herman J., and William T. Starmer. 1987. Yeasts associated with plants, insects and soil. Chapt. 5, p.123-180, IN: A.H. Rose and J.S. Harrison (eds.), **The Yeasts, Volume 1: Biology of Yeasts**, 2nd ed., Academic Press, Orlando, Florida.
234. Starmer, William T., Marc-Andre Lachance and Herman J. Phaff. Sept. 1987. A comparison of yeast communities found in necrotic tissue of cladodes and fruits of *Opuntia stricta* on islands in the Caribbean Sea and where introduced into Australia. *Microbial Ecology* 14(2):179-192.
235. Starmer, William T., Philip F. Ganter, Virginia Aberdeen, Marc-Andre Lachance and Herman J. Phaff. Sept. 1987. The ecological role of killer yeasts in natural communities of yeasts. *Canadian Journal of Microbiology* 33(9):783-796.
236. Fuson, Gayle B., Heather L. Presley and Herman J. Phaff. Oct. 1987. Deoxyribonucleic acid base sequence relatedness among members of the yeast genus *Kluyveromyces*. *International Journal of Systematic Bacteriology* 37(4):371-379.
237. Phaff, Herman J., William T. Starmer, Joanne Tredick-Kline and Virginia Aberdeen. Oct. 1987. *Pichia barkeri*, a new yeast species occurring in necrotic tissue of *Opuntia stricta*. *International Journal of Systematic Bacteriology* 37(4):386-390.
238. Phaff, H.J., W.T. Starmer and J. Tredick-Kline. Dec. 1987. *Pichia kluyveri sensu lato* - A proposal for two new varieties and a new anamorph. p.403-414, IN: G.S. deHoog, M. Th. Smith and A.C.M. Wiegman (eds.), **The Expanding Realm of Yeast-Like Fungi**, Proceedings of an International Symposium on the Perspectives of Taxonomy, Ecology and Phylogeny of Yeasts and Yeast-like Fungi, Elsevier Science Publishers, Amsterdam.
239. Starmer, William T., Herman J. Phaff, Jane M. Bowles and Marc-Andre Lachance. Sept. 1988. Yeasts vectored by insects feeding on decaying saguaro cactus. *The Southwestern Naturalist* 33(3):362-363.
240. Lachance, Marc-Andre, William T. Starmer and Herman J. Phaff. 1988. Identification of yeasts found in decaying cactus tissue. *Canadian Journal of Microbiology* 34:1025-1036.
241. Phaff, H.J. April 1989. Trends in yeast systematics (Introductory lecture). *Yeast* 5(Spec.



Issue):S341-S349.

242. Phaff, Herman. April 1989. Fermenters and tormenters. *The World & I*. p.314-319.
243. Hagler, Allen N., Leda C. Mendonca-Hagler and H.J. Phaff. April 1989. *Candida populi*, a new species of yeasts occurring in exudates of *Populus* and *Betula* species. *International Journal of Systematic Bacteriology* 39(2):97-99.
244. Phaff, Herman J. 1990. Isolation of yeasts from natural sources. Chapter 3, p.53-79, IN: David P. Labeda (ed.), **Isolation of Biotechnological Organisms from Nature**, McGraw-Hill Publishing Co., New York.
245. Starmer, William T., Marc-Andre Lachance, Herman J. Phaff and William B. Heed. 1990. The biogeography of yeasts associated with decaying cactus tissue in North America, the Caribbean, and Northern Venezuela. *Evolutionary Biology* 24:253-296.
246. Lachance, M.A., W.T. Starmer and H.J. Phaff. Oct. 1990. *Metschnikowia hawaiiensis* sp. nov., a heterothallic haploid yeast from Hawaiian morning glory and associated drosophilids. *International Journal of Systematic Bacteriology* 40(4):415-420.
247. Phaff, Herman J., William T. Starmer, M.A. Lachance, Virginia Aberdeen and Joanne Treddick-Kline. July 1992. *Pichia caribaea*, a new species of yeast occurring in necrotic tissue of cacti in the Caribbean area. *International Journal of Systematic Bacteriology* 42(3):459-462.
248. Lachance, Marc-André, Herman J. Phaff and William T. Starmer. Jan. 1993. *Kluyveromyces bacillisporus* sp. nov., a yeast from Emory oak exudate. *International Journal of Systematic Bacteriology* 43(1):115-119.
249. Bennett, J.W., and Herman J. Phaff. Aug. 1993. Early biotechnology: The Delft connection. *ASM News* 59(8):401-404.
250. Lee, Ching-Fu, Fwu-Ling Lee, Wen-Haw Hsu and Herman J. Phaff. April 1994. *Arthroascus fermentans*, a new yeast species isolated from soil in Taiwan. *International Journal of Systematic Bacteriology* 44(2):303-307.
251. Phaff, Herman J., William T. Starmer, Marc-Andre Lachance and Philip F. Ganter. Oct. 1994. *Candida caseinolytica* sp. nov., a new species of yeast occurring in necrotic tissue of *Opuntia* and *Stenocereus* species in the Southwestern United State and Baja California, Mexico. *International Journal of Systematic Bacteriology* 44(4):641-645.
252. Kopecká, Marie, Graham H. Fleet and Herman J. Phaff. April 1995. Ultrastructure of the cell wall of *Schizosaccharomyces pombe* following treatment with various glucanases. *Journal of Structural Biology* 114(2):140-152.
253. Phaff, Herman J. 1995. Life with yeasts during retirement. *Journal of Industrial Microbiology* 14:432-435.
254. Phaff, Herman J., John Blue, Allen N. Hagler and Cletus P. Kurtzman. April 1997. *Dipodascus starmeri* sp. nov., a new species of yeast occurring in cactus necroses. *International Journal of Systematic Bacteriology* 47(2):307-312.
255. Phaff, Herman J., Ann Vaughan-Martini and William T. Starmer. Oct. 1998. *Debaryomyces prosopidis* sp. nov., a yeast from exudates of mesquite trees. *International Journal of Systematic Bacteriology* 48(PT4):1419-1424.

256. Demain, A.L., H.J. Phaff and C.P. Kurtzman. 1998. The industrial and agricultural significance of yeasts. p.13-19. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
257. Phaff, H.J. 1998. Chemotaxonomy based on the polysaccharide composition of cell walls and capsules. p.45-47, IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers B.V., Amsterdam.
258. Lachance, M.A. and H.J. Phaff. 1998. *Clavispora* Rodrigues de Miranda. p.148-152. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
259. Phaff, H.J. 1998. *Coccidiascus* Chatton emend. Lushbaugh, Rowton and McGhee. p.153, IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers B.V., Amsterdam.
260. Phaff, H.J. and M.W. Miller. 1998. *Cyniclomyces* van der Walt and Scott. p.154-156, IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers B.V., Amsterdam.
261. Nakase, T., M. Suzuki, H.J. Phaff and C.P. Kurtzman. 1998. *Debaryomyces* Lodder and Kreger-van Rij Nom. Cons. p.157-173. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
262. de Hoog, G.S., C.P. Kurtzman, M.W. Miller and H.J. Phaff. 1998. *Eremothecium* Borzi emend. Kurtzman. p.201-208. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
263. Miller, M.W. and H.J. Phaff. 1998. *Metschnikowia* Kamienski. p.256-267. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
264. Miller, M.W. and H.J. Phaff. 1998. *Nadsonia* Sydow. p.268-270. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
265. Miller, M.W. and H.J. Phaff. 1998. *Saccharomycodes* E.C. Hansen. p.372-373. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
266. Lachance, M.A. and H.J. Phaff. 1998. *Sporopachydermia* Rodrigues de Miranda. p.395-399. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
267. Phaff, H.J. and M.W. Miller. 1998. *Wickerhamia* Soneda. p.409-410, IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers B.V., Amsterdam.
268. Miller, M.W. and H.J. Phaff. 1998. *Phaffia* M.W. Miller, Yoneyama and Soneda. p.789. IN: Cletus P. Kurtzman and Jack W. Fell (eds.), **The Yeasts - a taxonomic study**, 4th Edition, Elsevier Science Publishers, Amsterdam.
269. Phaff, Herman J., William T. Starmer and Cletus P. Kurtzman. July 1999. *Pichia lachancei* sp. nov., associated with several Hawaiian plant species. International Journal of

Systematic Bacteriology 49(3):1295-1299.

270. Lachance, Marc-André, William T. Starmer, Jane M. Bowles, Herman J. Phaff and Carlos A. Rosa. March 2000. Ribosomal DNA, species structure, and biogeography of the cactophilic yeast *Clavispora opuntiae*. Canadian Journal of Microbiology 46(3):195-210.
271. Miyao, G.M., R.M. Davis and H.J. Phaff. May 2000. Outbreak of *Eremothecium coryli* fruit rot of tomato in California. Plant Disease 84(5):594.
272. Phaff, Herman J., William T. Starmer and Cletus P. Kurtzman. July 2000. *Pichia hawaiiensis* sp. Nov., occurring in decaying bark of *Charpentiera* trees in the Hawaiian archipelago. International Journal of Systematic and Evolutionary Microbiology 50(4):1683-1686.
273. Lachance, Marc-André, Jody E. Kaden, Herman J. Phaff and William T. Starmer. 2000. Phylogenetic structure of the *Sporopachydermia cereana* species complex. International Journal of Systematic and Evolutionary Microbiology 51:237-247.
274. Starmer, William T., Herman J. Phaff, Philip F. Ganter and Marc-André Lachance. 2000. *Candida orba* sp. nov., a new cactus-specific yeast species from Queensland, Australia. International Journal of Systematic and Evolutionary Microbiology 51:699-705.

## Herman J. Phaff

### Semi-Technical Reports

1. Phaff, H.J. Aug. 1942. Dehydration of vegetables. *Good Packaging* 3(8):17-20.
2. Phaff, H.J. Nov. 1944. New ideas in the dehydration of apricots and peaches. *The Canner* 99(2599):24, 29-30, 42.
3. Phaff, H.J. May 1945. The sulfuring of fruits for drying. p.20-23, IN: *Dehydration Conference for Grapes and Cut Fruits, Proceedings, Modesto, California, May 1, 1945.*
4. Mrak, E.M., H.J. Phaff, G.L. Marsh and Gordon Mackinney. Sept. 1947. New drying processes for fruit products. *Food Packer* 28(10):44, 46.
5. Phaff, H.J., and E.M. Mrak. April 1948. Sulfur house operation. *California Agricultural Experiment Station Circular No. 382*, 10 pp.
6. Phaff, H.J., and E.M. Mrak. July 1948. Sulfur house operation. *California Agriculture* 2(7):11.
7. Mrak, E.M., and H.J. Phaff. Aug. 1948. Prunes. Superior quality pack for special markets possible by new procedure. *California Agriculture* 2(18):11-12.
8. Mrak, E.M., and H.J. Phaff. Nov. 1948. Taxonomy and morphology of yeasts. p.89-92, IN: *Proceedings of the Yeast Symposium, Milwaukee, Wisconsin.*
9. Phaff, H.J., and E.M. Mrak. Nov. 1948. Ecology and distribution of yeasts. p.92-93, IN: *Proceedings of the Yeast Symposium, Milwaukee, Wisconsin.*
10. Kilbuck, J.H., H.J. Phaff and E.M. Mrak. April 1949. Dried prunes. *California Agriculture* 3(4):9-10.
11. Mrak, E.M., and H.J. Phaff. July 1949. Sun-drying fruits. *California Agricultural Experiment Station Circular No. 392*, 19 pp.
12. Phaff, H.J., and E.M. Mrak. Aug. 1949. Blanched dehydrated fruits are superior. *Western Canner and Packer* 41(9):47, 49-50.
13. Phaff, Herman J., and Emil M. Mrak. Aug. 1949. Successful dehydration of clingstone peaches. *California Agriculture* 3(8):8-9, 14.
14. Phaff, H.J., and M.W. Miller. Jan. 1957. The role of *Drosophila* in initiating yeast spoilage in Calimyrna figs. p.32-33, IN: R.M. Warner (ed.), *Proceedings of the Eleventh Annual Research Conference, California Fig Institute, Fresno, California.*
15. Delisle, A., and H. J. Phaff. Jan. 1961. The release of nitrogenous products by brewers yeast. *Brewers Digest* 36(1):35-38.
16. Phaff, H.J. March 1962. Some current research on brewing yeast and its contaminants. *Master Brewers Association of America Communications* 23(3/4):3-6.
17. Miller, M.W., and H.J. Phaff. March 1962. Figs, insects, and diseases. p.8-10, IN: *Proceedings of the Sixteenth Annual Research Conference, California Fig Institute, Fresno,*

California.

18. Lewis, Michael, and Herman J. Phaff. Dec. 1962. The release of nitrogenous products by brewers yeast. A review of the literature. *Brewing Industries Research Institute Research Notes* 4(4): 3 pp.
19. Lewis, M.J., and H.J. Phaff. July 1963. The release of nitrogenous products by brewers yeast. I. The phenomenon of shock excretion. General observations. *Brewing Industries Research Institute Research Notes* 5(4): 3 pp.
20. Lewis, M.J., and H.J. Phaff. Oct. 1963. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. II. Role of osmosis in shock excretion. *Brewing Industries Research Institute Research Notes* 5(5): 2 pp.
21. Lewis, M.J., and H.J. Phaff. Feb. 1964. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. III. Energy requirements. *Brewing Industries Research Institute Research Notes* 6(1): 3 pp.
22. Lewis, M.J., and H.J. Phaff. May 1964. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. IV. Further studies on energy requirements. *Brewing Industries Research Institute Research Notes* 6(2): 3 pp.
23. Lewis, M.J., and H.J. Phaff. Dec. 1964. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. V. Further studies on energy requirements. *Brewing Industries Research Institute Research Notes* 6(2): 3 pp.
24. Lewis, M.J., and H.J. Phaff. Dec. 1964. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. VI. Importance of membrane state and a state of flux. *Brewing Industries Research Institute Research Notes* 6(6): 3 pp.
25. Lewis, M.J., and H.J. Phaff. Dec. 1965. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. VII. Importance of the lag phase. *Brewing Industries Research Institute Research Notes* 7(1): 4 pp.
26. Lewis, M.J., and H.J. Phaff. Dec. 1965. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. VIII. Involvement of membrane structure. *Brewing Industries Research Institute Research Notes* 7(2): 4 pp.
27. Lewis, M.J., and H.J. Phaff. Dec. 1965. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. IX. Effect of protection and modification of the yeast cell membrane. *Brewing Industries Research Institute Research Notes* 7(3): 3 pp.
28. Lewis, M.J., and H.J. Phaff. Dec. 1965. The release of nitrogenous products by brewers yeast. The phenomenon of shock excretion. X. Leakage of components other than alpha-amino nitrogen. *Brewing Industries Research Institute Research Notes* 7(4): 5 pp.
29. Lewis, M.J., and H.J. Phaff. Dec. 1965. The release of nitrogenous products by brewers yeast. Terminal report. *Brewing Industries Research Institute Research Notes* 7(5): 8 pp.
30. Foda, M.S., and H.J. Phaff. 1969. Starch Synthesis by *Cryptococcus laurentii*. *Antonie van Leeuwenhoek* 35(Supplement:Yeast Symposium 1969):H9-10.
31. Phaff, H.J. 1989. **Yeasts; Living Resources for Biotechnology**, ed. by B.E. Kirsop and C.P. Kurtzman, Cambridge University Press (book Review). *Quarterly Review of Biology* 64:496-497.

## Herman J. Phaff

### List of Abstracts

1. Phaff, H.J., and M.W. Miller. 1957. Successive populations of yeast in Calimyrna figs. Bacteriological Proceedings, 57th Annual Meeting, Detroit, Michigan.
2. Phaff, H.J., M.W. Miller, M. Yoneyama and M. Soneda. March 1972. A comparative study of the yeast floras associated with trees on the Japanese Islands and on the west coast of North America. p.289-290, IN: Fourth International Fermentation Symposium Abstracts, Kyoto, Japan.
3. Miller, M.W., H.J. Phaff, W.B. Heed, W.T. Starmer and Mary Miranda. 1974. Yeasts associated with *Drosophila* breeding sites in various species of cactus in desert regions of Arizona and northern Mexico. p.257-258, IN: Proceedings, Fourth International Symposium on Yeasts, Part I, Vienna, Austria.
4. Kopecka, Marie, H.J. Phaff and G.H. Fleet. 1974. The ultrastructure of the yeast cell wall after enzymic degradation by purified enzymes. p.205-206, IN: Proceedings of the Fourth International Symposium on Yeasts, Part 1, Vienna, Austria.
5. Phaff, H.J., Leda C. Mendonca-Hagler and C.W. Price. 1974. Deoxyribonucleic acid (DNA) base composition and DNA-DNA hybridization studies among several Ascosporogenous and Asporogenous species of yeast. p.237-238, IN: Proceedings of the Fourth International Symposium on Yeasts, Part 1, Vienna, Austria.
6. Phaff, H.J. 1974. Yeast taxonomy. p.49-52, IN: Proceedings of the Fourth International Symposium on Yeasts, Part II, Vienna, Austria.
7. Starmer, William T., William B. Heed, M.W. Miller, H.J. Phaff and M. Miranda. April 1975. The diversity of yeasts associated with cactiphilic *Drosophila*. Journal of the Arizona Academy of Science 10(Proceedings Supplement):12-13.
8. Fuson, Gayle, C.W. Price and H.J. Phaff. May 1977. Genome comparison in yeast systematics: Selected species of *Hansenula*. p.178, IN: American Society for Microbiology Abstracts of the Annual Meeting (Abstract No. 1144).
9. Price, C.W., Gayle Fuson and H.J. Phaff. May 1977. Genome comparison in yeast systematics: Filiation within *Saccharomyces* Group III. p.178, IN: American Society for Microbiology Abstracts of the Annual Meeting (Abstract No. 1145).
10. Phaff, H.J. Aug. 1977. Strengths and weaknesses of traditional criteria used in the systematics of yeasts as revealed by nuclear genome comparison (Abstract). Second International Congress of Mycology, Tampa, Florida, August 27-September 3, 1977.
11. Starmer, W.T., M.W. Miller, H.J. Phaff and Mary Miranda. Sept. 1977. The unique yeast flora of necrotic cacti in the Sonoran desert. p.53-54, IN: Proceedings of the 5th International Special Symposium on Yeasts, Keszthely, Hungary, International Commission for Yeast and Yeast-like Microorganisms.
12. Phaff, H.J., M.A. Lachance, and H.L. Presley. Sept. 1978. Molecular approaches to the systematics of species of the yeast genus *Kluyveromyces*. XIIth International Congress of Microbiology, Munich, West Germany.

13. Phaff, H.J. 1980. The species concept in yeast: Physiologic, morphologic, genetic, and ecological parameters. p.209, IN: Vth International Symposium on Yeasts, July 20-25, 1980, London, Ontario, Canada.
14. Phaff, H.J. 1983. Molecular taxonomy of yeasts: DNA-DNA homology and allozyme analysis. p.240, IN: The Third International Mycological Congress, August 28-September 3, 1983, Tokyo, Japan.