

COMPLETE PUBLICATION LIST : J.C. DU PREEZ

A. Publications in international journals

1. Du Preez, J.C. and P.M. Lategan. 1976. Gas chromatographic determination of C₂-C₅ fatty acids in aqueous media with a Porapak N column. *J. Chromatogr.* **124**: 63-65.
2. Du Preez, J.C. and P.M. Lategan. 1977. Microbial treatment of an industrial effluent containing volatile fatty acids. *S. Afr. J. Sci.* **73**: 349-351.
3. Du Preez, J.C. and P.M. Lategan. 1978. Gas chromatographic analysis of C₂-C₅ fatty acids in aqueous media using Carbowax 20M/phosphoric acid. *J. Chromatogr.* **159**: 259-262.
4. Lategan, P.M., J.C. du Preez and H.J. Potgieter. 1978. Preliminary findings on the characterization of bacteria causing mastitis by gas chromatography. *Br. vet. J.* **134**: 342-349.
5. Du Preez, J.C. and D.F. Toerien. 1978. The effect of temperature on the growth of *Acinetobacter calcoaceticus*. *Water SA* **4**: 10-13.
6. Lategan, P.M., S.C. Erasmus and J.C. du Preez. 1981. Characterization of pathogenic species of *Candida* by gas chromatography: Preliminary findings. *J. Med. Microbiol.* **14**: 219-222.
7. Du Preez, J.C., D.F. Toerien and P.M. Lategan. 1981. Growth parameters of *Acinetobacter calcoaceticus* on acetate and ethanol. *Eur. J. Appl. Microbiol. Biotechnol.* **13**: 45-53.
8. Kilian, S.G., B.A. Prior, H.J. Potgieter and J.C. du Preez. 1983. The utilization of glucose and cellobiose by *Candida wickerhamii*. *Eur. J. Appl. Microbiol. Biotechnol.* **17**: 281-286.
9. Kilian, S.G., B.A. Prior, I.S. Pretorius, J.C. du Preez, J.J. Venter and H.J. Potgieter. 1983. Nutritional, temperature, pH and oxygen requirements of *Candida wickerhamii*. *Eur. J. Appl. Microbiol. Biotechnol.* **17**: 334-338.
10. Du Preez, J.C. and J.P. van der Walt. 1983. Fermentation of D-xylose to ethanol by a strain of *Candida shehatae*. *Biotechnol. Lett.* **5**: 357-362.
ISI 5-yr journal impact factor: 1.676
11. Du Preez, J.C., B.A. Prior and A.M.T. Monteiro. 1984. The effect of aeration on xylose fermentation by *Candida shehatae* and *Pachysolen tannophilus*: A comparative study. *Appl. Microbiol. Biotechnol.* **19**: 261-266.
12. Du Preez, J.C., P.M. Lategan and D.F. Toerien. 1984. Influence of the growth rate on the macromolecular composition of *Acinetobacter calcoaceticus* in carbon-limited chemostat culture. *FEMS Microbiol. Lett.* **23**: 71-75.
13. Watson, N.E., B.A. Prior, J.C. du Preez and P.M. Lategan. 1984. Oxygen requirements for D-xylose fermentation to ethanol and polyols by *Pachysolen tannophilus*. *Enzyme Microb. Technol.* **6**: 447-450.
14. Du Preez, J.C., P.M. Lategan and D.F. Toerien. 1985. Utilization of short chain monocarboxylic acids in an effluent of a petrochemical industry by *Acinetobacter calcoaceticus*. *Biotechnol. Bioeng.* **27**: 128-131.
15. Du Preez, J.C. and B.A. Prior. 1985. A quantitative screening of some xylose-fermenting yeast isolates. *Biotechnol. Lett.* **7**: 241-246.
16. Du Preez, J.C., J.L.F. Kock, A.M.T. Monteiro and B.A. Prior. 1985. The vitamin requirements of *Candida shehatae* for xylose fermentation. *FEMS Microbiol. Lett.* **28**: 271-275.
17. Du Preez, J.C., F. de Jong, P.J. Botes and P.M. Lategan. 1985. Fermentation alcohol from grain sorghum starch. *Biomass* **8**: 101-117.

18. Du Preez, J.C., M. Bosch and B.A. Prior. 1986. Fermentation of hexose and pentose sugars by *Candida shehatae* and *Pichia stipitis*. *Appl. Microbiol. Biotechnol.* **23**: 228-233.
ISI 5-yr journal impact factor: 3.264
19. Du Preez, J.C., M. Bosch and B.A. Prior. 1986. Xylose fermentation by *Candida shehatae* and *Pichia stipitis*: Effects of pH, temperature and substrate concentration. *Enzyme Microb. Technol.* **8**: 360-364.
ISI 5-yr journal impact factor: 2.869
20. Kenealy, W., E. Zaady, J.C. du Preez, B. Stieglitz and I. Goldberg. 1986. Biochemical aspects of fumaric acid accumulation by *Rhizopus arrhizus*. *Appl. Environ. Microbiol.* **52**: 128-133.
21. Du Preez, J.C., M. Bosch and B.A. Prior. 1987. Temperature profiles of growth and ethanol tolerance of the xylose-fermenting yeasts *Candida shehatae* and *Pichia stipitis*. *Appl. Microbiol. Biotechnol.* **25**: 521-535.
22. De Jong, F.M., J.C. du Preez and P.M. Lategan. 1987. Effect of the polyphenol content of grain sorghum on alcoholic fermentation. *Biomass* **12**: 57-70.
23. Horn, C.H., A. de Kock, J.C. du Preez and P.M. Lategan. 1988. A comparative study of the amylolytic ability of *Lipomyces* and *Schwanniomyces* yeast species. *System. Appl. Microbiol.* **10**: 106-110.
24. Van Zyl, C., B.A. Prior and J.C. du Preez. 1988. Production of ethanol from sugar cane bagasse hemicellulose hydrolysate by *Pichia stipitis*. *Appl. Biochem. Biotechnol.* **17**: 357-369.
ISI 5-yr journal impact factor: 1.654
25. Ligthelm, M.E., B.A. Prior and J.C. du Preez. 1988. The oxygen requirements of yeasts for the fermentation of D-xylose and D-glucose to ethanol. *Appl. Biochem. Biotechnol.* **28**: 63-68.
ISI 5-yr journal impact factor: 1.654
26. Ligthelm, M.E., B.A. Prior and J.C. du Preez. 1988. The induction of D-xylose catabolizing enzymes in *Pachysolen tannophilus* and the relationship to anaerobic D-xylose fermentation. *Biotechnol. Lett.* **10**: 207-212.
27. Ligthelm, M.E., B.A. Prior, J.C. du Preez and V. Brandt. 1988. An investigation of D-(1-¹³C) metabolism in *Pichia stipitis* under aerobic and anaerobic conditions. *Appl. Microbiol. Biotechnol.* **28**: 293-296.
28. Prior, B.A., N.H.M. Holder, S.G. Kilian and J.C. du Preez. 1988. Measurement of *Candida utilis* growth using the adenosine triphosphate bioluminescent assay. *System. Appl. Microbiol.* **10**: 191-194.
29. Horn, C.H., J.C. du Preez and P.M. Lategan. 1988. Protein enrichment of banana plant wastes by yeast cultivation. *Biol. Wastes* **24**: 127-136.
30. Ligthelm, M.E., B.A. Prior and J.C. du Preez. 1988. The effect of respiratory inhibitors on the fermentative ability of *Pichia stipitis*, *Pachysolen tannophilus* and *Saccharomyces cerevisiae* under various conditions of aerobiosis. *Appl. Microbiol. Biotechnol.* **29**: 67-71.
31. Du Preez, J.C., B. van Driessel and B.A. Prior. 1988. The relation between redox potential and D-xylose fermentation by *Candida shehatae* and *Pichia stipitis*. *Biotechnol. Lett.* **10**: 901-906.
32. Du Preez, J.C., B. van Driessel and B.A. Prior. 1989. Ethanol tolerance of *Pichia stipitis* and *Candida shehatae* strains in fed-batch cultures at controlled low dissolved oxygen levels. *Appl. Microbiol. Biotechnol.* **30**: 53-58.
33. Ligthelm, M.E., B.A. Prior and J.C. du Preez. 1989. Effect of hydrogen acceptors on D-xylose fermentation by anaerobic culture of immobilized *Pachysolen tannophilus* cells. *Biotechnol. Bioeng.* **32**: 839-844.

34. Du Preez, J.C., B. van Driessel and B.A. Prior. 1989. D-xylose fermentation by *Candida shehatae* and *Pichia stipitis* at low dissolved oxygen levels in fed-batch cultures. *Biotechnol. Lett.* **11**: 131-136.
35. Du Preez, J.C., B. van Driessel and B.A. Prior. 1989. Effect of aerobiosis on fermentation and key enzyme levels during growth of *Pichia stipitis*, *Candida shehatae* and *Candida tenuis* on D-xylose. *Arch. Microbiol.* **152**: 143-147.
ISI 5-yr journal impact factor: 2.014
36. Prior, B.A., S.G. Kilian and J.C. du Preez. 1989. Fermentation of D-xylose by the yeasts *Candida shehatae* and *Pichia stipitis*. Prospects and problems. *Process Biochem.* **24**(1): 21-32.
37. Holder, N.H.M., S.G. Kilian and J.C. du Preez. 1989. Yeast biomass from bagasse hydrolysates. *Biol. Wastes* **28**: 239-246.
38. Du Preez, J.C. and A.B. Hugo. 1989. An electronic controller for maintaining low dissolved oxygen levels in a bench-top fermentor. *Biotechnol. Techniques* **3**: 289-294.
39. Kilian, S.G., J.C. du Preez and M. Gericke. 1989. The effects of ethanol on growth rate and passive proton diffusion in yeasts. *Appl. Microbiol. Biotechnol.* **32**: 90-94.
40. Van Zyl, C., B.A. Prior and J.C. du Preez. 1991. Acetic acid inhibition of D-xylose fermentation by *Pichia stipitis*. *Enzyme and Microbial Technology* **13**: 82-86.
ISI 5-yr journal impact factor: 2.869
41. Kilian, S.G., A. van Deemter, J.L.F. Kock and J.C. du Preez. 1991. Occurrence and taxonomic aspects of proton movements coupled to sugar transport in the yeast genus *Kluyveromyces*. *Antonie van Leeuwenhoek* **59**: 199-206.
42. Horn, C.H., J.C. du Preez and S.G. Kilian. 1991. Selective isolation of amylase derepressed mutants of *Schwanniomyces occidentalis*. *Systematic and Applied Microbiology* **14**: 299-304.
43. Du Preez, J.C., P.S. Meyer and S.G. Kilian. 1991. Effect of mixtures of acetic acid and D-xylose on the growth rate of *Candida blankii*. *Biotechnology Letters* **13**: 827-832.
44. Meyer, P.S., J.C. du Preez and S.G. Kilian. 1992. Isolation and evaluation of yeasts for biomass production from bagasse hemicellulose hydrolysate. *Systematic and Applied Microbiology.* **15**: 161-165.
45. Meyer, P.S., J.C. du Preez and S.G. Kilian. 1992. Cultivation of *Candida blankii* in simulated bagasse hemicellulose hydrolysate. *Journal of Industrial Microbiology.* **9**: 109-113.
46. Horn, C.H., J.C. du Preez and S.G. Kilian. 1992. Fermentation of grain sorghum starch by co-cultivation of *Schwanniomyces occidentalis* and *Saccharomyces cerevisiae*. *Bioresource Technology* **42**: 27-31.
47. Meyer, P.S., J.C. du Preez and S.G. Kilian. 1992. Chemostat cultivation of *Candida blankii* on sugar cane bagasse hemicellulose hydrolysate. *Biotechnology and Bioengineering* **40**: 353-358.
48. Horn, C.H., J.C. du Preez and S.G. Kilian. 1992. Protein enrichment of grain sorghum by submerged culture of the amylolytic yeasts *Schwanniomyces occidentalis* and *Lipomyces kononenkoae*. *World Journal of Microbiology and Biotechnology* **8**: 416-422.
49. Meyer, P.S., J.C. du Preez and S.G. Kilian. 1992. Effect of temperature and pH on *Candida blankii* in chemostat culture. *World Journal of Microbiology and Biotechnology* **8**: 434-438.
50. Horn, C.H., J.C. du Preez and S.G. Kilian. 1992. Amylase production by a *Schwanniomyces occidentalis* mutant in chemostat culture. *Applied Microbiology and Biotechnology* **37**: 147-151.
51. Meyer, P.S., du Preez, J.C. and S.G. Kilian. 1993. Selection and evaluation of astaxanthin-overproducing mutants of *Phaffia rhodozyma*. *World Journal of Microbiology and Biotechnology* **9**: 514-520.
ISI 5-yr journal impact factor: 1.213

52. Yang, S.-S., H.-D. Jang, C.-M. Liew and J.C. du Preez. 1993. Protein enrichment of sweet potato residue by solid-state cultivation with mono- and co-cultures of amylolytic fungi. *World Journal of Microbiology and Biotechnology* **9**: 258-264.
53. Meyer, P.S. and J.C. du Preez. 1993. Effect of acetic acid on astaxanthin production by *Phaffia rhodozyma*. *Biotechnology Letters* **15**: 919-924.
54. Meyer, P.S., J.C. du Preez and S.G. Kilian. 1993. Evaluation of *Candida blankii* hybrids for biomass production. *Journal of Biotechnology*. **29**: 267-275.
55. Kilian, S.G., B.A. Prior and J.C. du Preez. 1993. The kinetics and regulation of D-xylose transport in *Candida utilis*. *World Journal of Microbiology and Biotechnology* **9**: 357-360.
56. Du Preez, J.C., X.-M. Qian and S.G. Kilian. 1993. Stability and bioactivity of gibberellic acid in different solvents. *Biotechnology Techniques* **17**: 391-396.
57. Qian, X.-M., J.C. du Preez and S.G. Kilian. 1994. Factors affecting gibberellic acid production by *Fusarium moniliforme* in solid state cultivation on starch. *World Journal of Microbiology and Biotechnology* **10**: 93-99.
58. Meyer, P.S. and J.C. du Preez. 1994. Effect of culture conditions on astaxanthin production by a mutant of *Phaffia rhodozyma* in batch and chemostat culture. *Applied Microbiology and Biotechnology* **40**: 780-785.
ISI 5-yr journal impact factor: 3.264
59. Meyer, P.S. and J.C. du Preez. 1994. Astaxanthin production by a *Phaffia rhodozyma* mutant on grape juice. *World Journal of Microbiology and Biotechnology* **10**: 178-183.
ISI 5-yr journal impact factor: 1.213
60. Meyer, P.S., B.D. Wingfield and J.C. du Preez. 1994. Genetic analysis of astaxanthin-overproducing mutants of *Phaffia rhodozyma* using RAPDs. *Biotechnology Techniques* **8**: 1-6.
61. Meyer, P.S., J.C. du Preez & M.S. van Dyk. 1994. The effect of monoterpenes on astaxanthin production by a mutant of *Phaffia rhodozyma*. *Biotechnology Letters* **16**: 125-128.
62. Meyer, P.S. and J.C. du Preez. 1994. Photo-regulated astaxanthin production by *Phaffia rhodozyma* mutants. *Systematic and Applied Microbiology* **17**: 24-31.
ISI 5-yr journal impact factor: 2.820
63. Roux, M.P., J.L.F. Kock, A. Botha, J.C. du Preez, G.V. Wells & P.J. Botes. 1994. *Mucor* - a source of cocoa butter and gamma-linolenic acid. *World Journal of Microbiology and Biotechnology* **10**: 417-422.
64. Du Preez, J.C. 1994. Process parameters and environmental factors affecting D-xylose fermentation by yeasts. *Enzyme and Microbial Technology* **16**: 944-956.
ISI 5-yr journal impact factor: 2.869
65. Vorster, E., S.G. Kilian & J.C. du Preez. 1994. Growth characteristics of *Geotrichum ingens* on propionic acid and acetic acid in batch and continuous culture. *World Journal of Microbiology and Biotechnology* **10**: 505-509.
66. Roux, M.P., J.L.F. Kock, J.C. du Preez & A. Botha. 1995. The influence of dissolved oxygen tension on the production of cocoa butter equivalents and gamma-linolenic acid by *Mucor circinelloides*. *Systematic and Applied Microbiology* **18**: 329-334.
67. Du Preez, J.C., M. Immelman, J.L.F. Kock & S.G. Kilian. 1995. Production of gamma-linolenic acid by *Mucor circinelloides* and *Mucor rouxii* with acetic acid as carbon substrate. *Biotechnology Letters* **17**: 933-938.
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70. Du Preez, J.C., M. Immelman, J.L.F. Kock & S.G. Kilian. 1997. The effect of acetic acid concentration on the growth and production of gamma-linolenic acid by *Mucor circinelloides* CBS 203.28 in fed-batch culture. *World Journal of Microbiology and Biotechnology* **13**:81-87.
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72. Jeffery, J., Kock, J.L.F., du Preez, J.C., Baretseng, A.S., Coetzee, D.J., Botes, P.J., Botha, A., Schewe, T. and Nigam, S. 1999. Effect of acetate and pH on sunflower oil assimilation by *Mucor circinelloides* f. *circinelloides*. *Systematic and Applied Microbiology* **22**:156-160.
73. Singh, S., J.C. du Preez, B. Pillay & B.A. Prior. 2000. The production of hemicellulases by *Thermomyces lanuginosus* strain SSBP: influence of agitation and dissolved oxygen tension. *Applied Microbiology and Biotechnology* **54**:698-704.
ISI 5-yr journal impact factor: 3.264
74. De Kock, S.H., J.C. du Preez & S.G. Kilian. 2000. Anomalies in the growth kinetics of *Saccharomyces cerevisiae* strains in aerobic chemostat cultures. *Journal of Industrial Microbiology and Biotechnology* **24**:231-236.
75. De Kock, S.H., J.C. du Preez & S.G. Kilian. 2000. The effect of vitamins and amino acids on glucose uptake in aerobic chemostat cultures of three *Saccharomyces cerevisiae* strains. *Systematic and Applied Microbiology* **23**:41-46.
76. Du Preez, J.C., S.H. de Kock, S.G. Kilian & D. Litthauer. 2000. The relationship between transport kinetics and glucose uptake by *Saccharomyces cerevisiae* in aerobic chemostat cultures. *Antonie van Leeuwenhoek Journal of Microbiology* **77**: 379-388.
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78. Du Preez, J.C., Maré, J.E., Albertyn, J. & Kilian, S.G. 2001. Transcriptional repression of *ADH2*-regulated β -xylanase production by ethanol in recombinant strains of *Saccharomyces cerevisiae*. *FEMS Yeast Research* **1**:233-240.
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80. Kritzing, S.M., Kilian, S.G., Potgieter, M.A. & du Preez, J.C. 2003. The effect of production parameters on the synthesis of the prebiotic trisaccharide, neokestose, by *Xanthophyllomyces dendrorhous* (*Phaffia rhodozyma*). *Enzyme and Microbial Technology* **32**: 728-737.
ISI 5-yr journal impact factor: 2.869
81. Van Rensburg, E., du Preez, J.C. & Kilian, S.G. 2004. Influence of the growth phase and culture medium on the survival of *Mannheimia haemolytica* during storage at different temperatures. *Journal of Applied Microbiology* **96**: 154-161.
ISI 5-yr journal impact factor: 2.681
82. Knox, A.M., du Preez, J.C. & Kilian, S.G. 2004. Starch fermentation characteristics of *Saccharomyces cerevisiae* strains transformed with amylase genes from *Lipomyces kononenkoae* and *Saccharomycopsis fibuligera*. *Enzyme and Microbial Technology* **34**: 453-460.
ISI 5-yr journal impact factor: 2.869
83. Chipeta, Z.A., du Preez, J.C., Szakacs, G. & Christopher, L. 2005. Xylanase production by fungal strains on spent sulphite liquor. *Applied Microbiology and Biotechnology* **69**: 71 – 78.
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ISI 5-yr journal impact factor: 0.525
85. Van Rensburg, E. & du Preez, J.C. 2007. Effect of pH, temperature and nutrient limitations on growth and leukotoxin production by *Mannheimia haemolytica* in batch and continuous culture. Journal of Applied Microbiology **102**: 1273-1282.
ISI 5-yr journal impact factor: 2.681
86. Du Preez, J.C., van Rensburg, E. & Kilian, S.G. 2008. Kinetics of growth and leukotoxin production by *Mannheimia haemolytica* in continuous culture. Journal of Industrial Microbiology & Biotechnology **35**: 611-618.
ISI 5-yr journal impact factor: 2.086
87. Chipeta, Z.A., du Preez, J.C. & Christopher, L. 2008. Effect of cultivation pH and agitation rate on growth and xylanase production by *Aspergillus oryzae* in spent sulphite liquor. Journal of Industrial Microbiology & Biotechnology **35**: 587-594.
ISI 5-yr journal impact factor: 2.086
88. de Smidt, O., du Preez, J., Albertyn, J. 2008. The alcohol dehydrogenases of *Saccharomyces cerevisiae*: a comprehensive review. FEMS Yeast Research **8**: 967-978.
ISI 5-yr journal impact factor: 2.403
89. de Smidt, O., du Preez, J.C., & Albertyn, J. 2011. Molecular and physiological aspects of alcohol dehydrogenases in the ethanol metabolism of *Saccharomyces cerevisiae*. FEMS Yeast Research **12**: 33-47.
ISI 5-yr journal impact factor: 2.403

B. Other publications

1. Lategan, P.M., J.C. du Preez and H.J. Potgieter. 1973. Characterization of bacteria causing mastitis by gas chromatography. *Studia Microbiologica* **2**: 21.
2. Lategan, P.M., B.A. Prior, J.C. du Preez and S.G. Kilian. 1979. Substrates investigated for the production of single cell protein. *S.A. Food Rev.* **6**(5): 24, 27, 29, 31.
3. Du Preez, J.C. and P.M. Lategan. 1982. The production of microbial protein from a Sasol effluent. Proc. 6th biennial SAAFoST congress, p. 76-77. Supplement to *S.A. Food Rev.* **9**(2). 1982.
4. Du Preez, J.C. 1989. Fermentation of bagasse hemicellulose hydrolysate. *In* The biological utilization of bagasse, a lignocellulose waste (J.C. Paterson-Jones, ed.), South African national scientific programmes report no. 149, pp. 17-36.
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6. Du Preez, J.C. 1990. Research on single-cell protein in South Africa: an overview. *Acta Varia* **5**: 147-169.
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8. Wahlbom, C.F., J.C. du Preez, W.H. van Zyl and B. Hahn-Hägerdal. 1998. Xylanase production by recombinant *Saccharomyces cerevisiae* in batch, fed-batch and continuous cultures. Proceedings, 2nd European Symposium on Biochemical Engineering Science (ESBES-2), (S. F. De Azecedo, E.C. Ferreira, K.Ch.A.M. Luyben, P. Osseweijer, eds.), Porto, Portugal, 16 - 19 Sept. 1998, pp. 183 - 189.
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10. Albertyn J, Maré, J.E. and du Preez J.C. 2001. *ADH2* transcription is repressed by both glucose and ethanol. 20th International Conference on Yeast Genetics and Molecular Biology, Prague, Czech Republic, 26-31 August. (Published in *Yeast*, Vol. 18 No. S1, August 2001)
11. Chipeta, Z.A., du Preez, J.C. & Christov, L. 2002. Use of industrial waste water for xylanase production by two *Aspergillus* strains. Proceedings, 11th TAPPSA Biennial International Pulp and Paper Conference, Durban, 7 - 11 Oct. (Peer reviewed conference proceedings)
12. Du Preez, J.C. 2003. Editorial: yeast fermentations and other yeast bioprocesses. *FEMS Yeast Research* **3**: 131.