

Published Research Articles

1980-1989

1. Litthauer, D., Naudè, R.J., Oelofsen, W.; "The isolation and characterisation of a novel peptide from ostrich adenohypophyses."; *International Journal Of Peptide And Protein Research* 20 (1982), 2, 115-119.
2. Litthauer, D., Naudè, R.J., Oelofsen, W.; "Isolation, characterisation and primary structure of two gamma-LPH variants from ostrich pituitary glands. "; *International Journal Of Peptide And Protein Research* 24 (1984), 4, 309-315.
3. Metelerkamp, N.C., Litthauer, D., Naudè, R.J., Oelofsen, W., Gruss, B.; "The orange-yellow pigment of heartwater-infected Angora goats."; *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry* 84 (1986), 3, 299-304.
4. Evans, T.K., Litthauer, D., Oelofsen, W.; "The purification and primary structure of ostrich insulin."; *International Journal Of Peptide And Protein Research* 31 (1987), 5, 454-462.
5. Litthauer, D., Oelofsen, W.; "Purification and primary structure of ostrich pancreatic polypeptide."; *International Journal Of Peptide And Protein Research* 29 (1987), 6, 739-745.

1990-1999

6. Lazure, C., Paquet, L., Litthauer, D., Naudè R.J., Oelofsen, W., Chrétien, M.; "The ostrich pituitary contains a major peptide homologous to mammalian chromogranin A (1-76)."; *Peptides* 11 (1990), 1, 79-87.
7. Beukes, H.A.G., Oosthuysen, M.M.J., Lamprechts, H., Mybyrgh, J.A., Litthauer, D., Naudè, R.J.; "Properties of the isoenzyme forms A-1, A-2 and B of N-acetyl- β -D-glucosaminidase purified from baboon kidneys."; *International Journal of Biochemistry* 23 (1991), 2, 239-251.
8. Ferreira, A., Litthauer, D., Saayman, H., Oelofsen, W., Crabb, J., Lazure, C.; "The purification and primary structure of glucagon from ostrich pancreatic splenic lobes."; *International Journal Of Peptide And Protein Research* 38 (1991), 1, 90-95.
9. Oelofsen, W., Naudè, R.J., Litthauer, D., Saayman, H.; "Digestive enzymes and hormonal peptides from the pancreas of the Ostrich (*Struthio camelus*)."; *South African Journal of Science* 87 (1991), 183-187.
10. Watanabe, T., Inagaki, N., Litthauer, D., Oelofsen, W.; "An immunohistochemical study of the pancreatic islet cells of the ostrich."; *Biological Structures and Morphogenesis* 3 (1991), 4, 139-146. Masson, Paris.
11. Bradley, G., Litthauer, D., Oelofsen, W.; "Partial characterisation of human and porcine adipose acidic proteolytic activity."; *Comparative Biochemistry and Physiology B:102* (1992), 1, 25-30.
12. Litthauer, D., Serrero, G.; "The primary culture of mouse adipocyte precursor cells in defined medium."; *Comparative Biochemistry and Physiology A:101* (1992), 1, 59-64.

13. Van Eyk, A.D., Litthauer, D., Oelofsen, W.; "The isolation and partial characterization of catalase and a peroxidase activity from human white adipose tissue."; *International Journal of Biochemistry* 24 (1992), 7, 1101-1109.
14. Naude, R.J., Litthauer, D., Oelofsen, W., Chretien, M., Lazure, C.; "The production of the ostrich NH₂-terminal POMC fragment requires cleavage at a unique signal peptidase site. "; *Peptides* 14 (1990), 3, 519-523.
15. Van De Venter, M., Litthauer, D., Oelofsen, W.; "The effect of high concentrations of alpha 2-adrenoceptor antagonists on the lipolytic responsiveness of isolated human adipocytes."; *Comparative Biochemistry and Physiology C:103* (1993), 2, 327-332.
16. Van Eyk, A.D., Litthauer, D., Oelofsen, W.; "Mitochondrial and peroxisomal fractions derived from human white adipocytes."; *International Journal of Biochemistry* 25 (1993), 12, 1757-1764.
17. Van De Venter, M., Pletschke, B., Litthauer, D., Roux, S., Oelofsen, W.; "Comparison of the in vitro lipolytic response of human and hamster adipocytes."; *South African Journal of Science* 90 (1994), 288-292.
18. Van De Venter, M., Litthauer, D., Oelofsen, W.; "Catecholamine stimulated lipolysis in differentiated human preadipocytes in serum-free, defined medium."; *Journal of Cellular Biochemistry* 54 (1994), 1, 1-10.
19. Koekemoer, T.C., Litthauer, D., Oelofsen, W.; "Isolation and characterisation of adipose tissue glycerol-3-phosphate dehydrogenase."; *International Journal of Biochemistry and Cell Biology* 27 (1995), 6, 625-632.
20. Litthauer, D., Louw, C.H., Du Toit, P.J.; "Geotrichum candidum P-5 produces an intracellular serine protease resembling chymotrypsin."; *International Journal of Biochemistry and Cell Biology* 28 (1996), 10, 1123-1130.
21. Labuschagne, R.B., Van Tonder, A., Litthauer, D.; "Flavobacterium odoratum lipase: isolation and characterisation."; *Enzyme and Microbial Technology* 21 (1997), 1, 52-58.
22. Stanton, L-A., Van De Venter, M., Litthauer, D., Oelofsen, W.; "Effect of lipoproteins on the differentiation of 3T3-L1 and human preadipocytes in cell culture."; *Comparative Biochemistry and Physiology B:116* (1997), 1, 65-73.
23. Botes, A.L., Litthauer, D., Van Tonder, A., Van Dyk, M.S.; "Physico-chemical properties of the epoxide hydrolase from the yeast *Rhodospiridium toruloides*."; *Biotechnology Letters* 21 (1999), 12, 1137-1144
24. Van Heerden, E., Litthauer, D.; "The comparative discriminating abilities of lipases in different media."; *Biocatalysis and Biotransformation* 16 (1999), 6, 461-474.
25. Venter, H., Litthauer, D., Osthoff, G. A; "Purification and Characterization of a Metalloprotease from *Chryseobacterium indologenes* 9a and Determination of the Amino Acid Specificity with Electrospray Mass Spectrometry."; *Protein Expression and Purification* 15 (1999), 3, 282-295.

2000-2009

26. Du Preez, J.C., De Kock, S.H., Kilian, S.G., Litthauer, D.; "The relationship between transport kinetics and glucose uptake by *Saccharomyces cerevisiae* in aerobic chemostat cultures."; *Antonie van Leeuwenhoek* 77 (2000), 4, 379-388.
27. Nthangeni, M.B., Patterton, H.-G., Van Tonder, A., Vergeer, W., Litthauer, D.; "Overexpression and properties of a purified recombinant *Bacillus licheniformes* lipase: A comparative report on *Bacillus* lipases."; *Enzyme and Microbial Technology* 28 (2001), 7-8, 705-712.
28. Litthauer, D., Van Eeden Skein, E., Philips, A.; "Pseudomonas luteola lipase: A new member of the 320 residue Pseudomonas lipase family."; *Enzyme and Microbial Technology* 30 (2002), 2, 209-215.
29. Meiring, M.S., Litthauer, D., Ha'rsfalvi, J., Van Wyk, V., Badenhorst, P.N., Kotze', H.F.; "In vitro effect of a thrombin inhibition peptide selected by phage display technology."; *Thrombosis Research* 107 (2002), 6, 365- 371.
30. Van Heerden, E., Litthauer, D., Verger, R.; "Biochemical characterisation and kinetic properties of a purified lipase from *Aspergillus niger* in bulk phase and monomolecular films."; *Enzyme and Microbial Technology* 30 (2002), 7, 902-909.
31. Van Heerden, E., Litthauer, D.; "Optimisation of reaction conditions for selective ester formation by lipase using a factorial design."; *South African Journal of Science* 100 (2004), 5, 249-250.
32. Bragg, R.R., Jansen Van Rensburg, P., Van Heerden, E., Albetyn, J.; "The testing and modification of a commercially available transport medium for the transportation of pure cultures of *Haemophilus paragallinarum* for serotyping."; *Onderstepoort Journal of Veterinary Research* 71 (2004), 2, 93-98.
33. De Smidt, O., Albetyn, J., Bragg, R.R., Van Heerden, E.; "Genetic organisation of the capsule transport gene region from *Haemophilus paragallinarum*."; *Onderstepoort Journal of Veterinary Research* 71 (2004), 2, 139-152.
34. Nürnberger, T., Brunner, F., Kemmerling, B., Piater, L.A.; "Innate immunity in plants and animals: striking similarities and obvious differences."; *Immunological Reviews* 198 (2004), 1, 249-266.
35. Piater, L.A., Nürnberger, T., Dubery, I.A.; "Identification of a lipopolysaccharide responsive erk-like MAP kinase in tobacco leaf tissue."; *Molecular Plant Pathology* 5 (2004), 4, 331-341.
36. Joseph, M., Kock, J. L. F., Pohl, C. H., Botes, P. J., Van Heerden, E., Hugo, A.; "Acetate-enhanced polymerized triacylglycerol utilization by *Mucor circinelloides*."; *World Journal of Microbiology and Biotechnology* 21 (2005), 1, 97-99.
37. Nthangeni, M.B., Ramagoma, F., Tlou, M.G., Litthauer, D.; "Development of a versatile cassette for directional genome walking using cassette ligation-mediated PCR and its application in the cloning of complete lipolytic genes from *Bacillus* species."; *Journal of Microbiological Methods* 61 (2005), 2, 225-234.

39. Möller, C., Van Heerden, E.; "The isolation of a soluble and membrane-associated Fe(III) reductase from the thermophile, *Thermus scotoductus* (SA 01)."; *FEMS Microbiology Letters* 265 (2006), 2, 237-243.
40. Onstott, T.C., Lin, L.-H., Davidson, M., Mislowack, B., Borcsik, M., Hall, J., Slater, C., Ward, J., Sherwood Lollar, B., Lippmann-Pipke, J., Boice, E., Pratt, L.M., Pfiffner, S., Moser, D., Gihring, T., Kieft, T.L., Phelps, T.J., Van Heerden, E., Litthaur, D., Deflaun, M.F.; "The Origin and Age of Biogeochemical Trends in Deep Fracture Water of the Witwatersrand Basin, South Africa."; *Geomicrobiology Journal* 23 (2006), 6, 369-414.
41. Pfiffner, S., Cantu, J., Smithgall, A., Peacock, A., White, D., Moser, D., Onstott, T., Van Heerden, E.; "Deep subsurface microbial biomass and community structure in witwatersrand basin mines."; *Geomicrobiology Journal* 23 (2006), 6, 431-442.
42. Botes, E., Van Heerden, E., and Litthauer, D.; "Hyper-resistance to arsenic in bacteria isolated from an antimony mine in South Africa."; *South African Journal of Science* 103 (2007), 7-8, 279-281.
43. DeFlaun, M.F., Fredrickson, J.K., Dong, H., Pfiffner, S.M., Onstott, T.C., Balkwill, D.L., Streger, S., Stackebrandt, E., Knoesen, S., Van Heerden, E.; "Isolation and characterization of a novel *Geobacillus thermoleovorans* species from an ultra-deep South African gold mine."; *Systematic and Applied Microbiology* 30 (2007), 2, 152-164.
44. Litthauer, D., Jansen van Vuuren, M., Van Tonder, A., Wolfaardt, F.W.; "Purification and kinetics of thermostable laccase from *Pycnoporus sanguineus* (SCC 108)."; *Enzyme and Microbial Technology*, 40 (2007), 4, 563-568.
45. Opperman, D.J., Van Heerden, E.; "Aerobic Cr(VI) reduction by *Thermus scotoductus* strain SA-01."; *Journal of Applied Microbiology* 103 (2007), 5, 1907-1913.
46. Pohl, C. H., Kriel, W., Venter, P., Van Heerden, E., Albertyn, J.; "The diversity of culturable airborne fungi in an active South African gold mine."; *South African Journal of Science* 103 (2007), 7-8, 277-278.
47. Barnad, T.G., Van Heerden, E., Bragg, R.R., Albertyn, J.; "Haemophilus paragallinarum's haemagglutinin – characterisation of structure and its possible role in adhesion and serotyping."; *Onderstepoort Journal of Veterinary Research* 75 (2008), 11-16.
48. Ojo, A.O., Van Heerden, E., Piater, L.A.; "Identification and initial characterization of a copper resistant South African mine isolate."; *African Journal of Microbial Research* 2 (2008), 11, 281-287.
49. Opperman, D.J., Piater, L.A., Van Heerden, E.; "A novel chromate reductase from *Thermus scotoductus* SA-01 related to Old Yellow Enzyme."; *Journal of Bacteriology* 109 (2008), 8, 3076-3082.

50. Opperman, D.J., Van Heerden, E.; "A membrane-associated protein with Cr(VI) reducing activity from *Thermus scotoductus* SA-01."; *FEMS Microbiology Letters* 280 (2008), 2, 210-218.
51. Raji, A.I., Möller, C., Litthauer, D., Van Heerden, E., Piater, L.A.; "Bacterial diversity of biofilm samples from deep mines in South Africa."; *Biokemistri* 20 (2008), 2, 53-62.
52. Van Heerden, E., Opperman, D.J., Bester, A.P., Van Marwijk, J., Cason, E.D., Litthauer, D., Piater, L.A., Onstott, T.C.; "Metabolic promiscuity from the deep subsurface: a story of Survival or Superiority. Instruments, Methods, and Missions for Astrobiology XI." *Proceedings of the SPIE* 7097 (2008), 70970S-70970S-12.
53. Jordan, R., Van Heerden, E., Hugo, C.J., Piater, L.A.; "Using current molecular techniques for rapid differentiation of *Salmonella* Typhi and *Salmonella* Typhimurium."; *African Journal of Biotechnology* 8 (2009), 9, 1815-1818.
54. Rashamuse, K., Ronnenburg, T., Hennessy, F., Visser, D., Van Heerden, E., Piater, L.A., Litthauer, D., Möller, C., Brady, D.; "Discovery of a novel carboxylesterase through functional screening of a pre-enriched environmental library."; *Journal of Applied Microbiology* 106 (2009), 5, 1532-1539.
55. Van Marwijk, J., Opperman, D.J., Piater, L.A., Van Heerden, E.; "Reduction of vanadium(V) by *Enterobacter cloacae* EV-SA01 isolated from a South African deep gold mine."; *Biotechnology Letters* 31 (2009), 6, 845-849.

oooOOooo