

BIBLIOGRAPHY

- Adams, D.G., and Duggan, P.S., 1999. Transley Review No. 107 Heterocyst and Akinetes differentiation in cyanobacteria. **New Phytol.** 144, 3-33.
- Asaeda, T., Pham, H.S., Nimal P.D.G., Manatunge, J., Hocking, G.C., 2001. Control of algal blooms in reservoirs with a curtain: a numerical analysis. **Ecological engineering.** 16, 395-404.
- Ashton, P.J. and Robarts, R.D., 1987. Apparent predation of *Microcystis aeruginosa kutz emend elenkin* by a saprospira-like bacterium in a hypertrophic lake (Hartbeespoort dam, South Africa). **Journal of Limnological Society of South Africa.** 13, 44-47.
- Atlas, R.M. and Bartha, R., 1998. Microbial ecology: fundamentals and applications. 4th edition. Benjamin/Cummings Science Publishers, 2725 sand Hill Road, Menlo Park, California 94025. 698pp.
- Batchelor, A.L., Scott, W.E., Wood, A., 1992. *Microcystis* scums from Hartbeespoort dam as a source of fine chemicals. Report No. 264/1/92 to the Water Research Commission.
- Bates, S.S., Gaudet, J., Kaczmarska, I., Ehrman, J.M., 2004. Interactions between bacteria and the domoic-acid-producing diatom *Pseudo-nitzschia multiseriata* (Hasle) Hasle: can bacteria produce domoic acid autonomously? **Harmful Algae.** 3, 11-20.
- Bird, D.F. and Rashidan. K.K. 2001. Role of predatory bacteria in the termination of a cyanobacterial bloom. **Microbial Ecology.** 41, 97-105.
- Blakeman, J.P. and Fokkema, N.J. 1982. Potential for biological Control of plant diseases on the phylloplane. **Ann Rev Phytopatho.** 20, 167-192.

- Bourne, D.G., Jones, G.J., Blakeley, R.L., Jones, A., Negri, A.P., Riddles, P., 1996. Enzymatic pathway for the bacterial degradation of the cyanobacterial peptide toxin microcystins LR. **Applied and Environmental Microbiology**. 62, 4086-4094.
- Borbély, G., Surrnyi, G., Kós, P., 1990. Stress responses of cyanobacteria and the pleiotropic effects of light deprivation. **FEMS Microbiology Ecology**. 74, 141-152.
- Brock, T.D., Madigan, M.T., Martinko, J.M., Parker, J., 1994. *Biology of Microorganisms*, 7th Edn., 909 pp. Prentice-Hall International, Englewood Cliffs, NJ.
- Breeuwer, P., Drocourt, J.L., Bunschoten, N., Zwietering, M.H., Rombouts, F.M., Abee, T., 1995. Characterization of Uptake and Hydrolysis of Fluorescein Diacetate and Carboxyfluorescein Diacetate by Intracellular Esterases in *Saccharomyces cerevisiae*, Which Result in Accumulation of Fluorescent Product. **Applied and Environmental Microbiology**. 61, 1614–1619.
- Brookes, J.D., Geary, S.M., Ganf, G.G., Burch, M.D., 2000. Use of FDA and flow cytometry to assess metabolic activity as an indicator of nutrient status in phytoplankton. **Marine & Freshwater Research**. 51, 817 – 823.
- Brunberg A-K., 1999. Contribution of bacteria in the mucilage of *Microcystis* spp.(Cyanobacteria) to benthic and pelagic bacterial production in a hypereutrophic lake. **FEMS Microbiology Ecology**. 29, 13-22.
- Brussaard, C.P.D., Marie, D., Thyrrhaug, R., Bratbak, G., 2001. Flow cytometric analysis of phytoplankton viability following viral infection. **Aquatic Microbial Ecology**. 26, 157-166.

- Brussaard, C.P.D., Thyraug, R., Marie, D., Bratbak, G., 1999. Flow cytometric analyses of viral infection in two marine phytoplankton species, *Micromonas pusilla* (Prasinophyceae) and *Phaeocystis pouchetii* (Prymnesiophyceae). **J. Phycol.** 35, 941–948.
- Burnham, J.C., Hashimoto, T., Conti, S.F., 1968. Electron microscopic observations on the penetration of *Bdellovibrio bacteriovorus* into gram-negative bacterial hosts. **Journal of Bacteriology.** 96, 1366-1381.
- Burnham, J.C., Stetak, T., Boulger, J., 1973. An improved method of cell enumeration for filamentous algae and bacteria. **Journal of Phycology.** 9, 346-349.
- Burnham, J.C., Stetak, T., Gregory, L., 1976. Extracellular lysis of the blue-green alga *Phormidium luridum* by *Bdellovibrio bacteriovorus*. **Journal of Phycology.** 12, 306-313.
- Burnham, J.C., Collart, S.A., Highison, B.W., 1981. Entrapment and lysis of the cyanobacterium *Phormidium luridum* by aqueous colonies of *Myxococcus xanthus* PCO2. **Archives in Microbiology.** 129, 285-294.
- Burnham, J.C., Susan, A.C., Daft, M.J., 1984. *Myxococcal* predation of the cyanobacterium *Phormidium luridum* in aqueous environment. **Archives in Microbiology.** 137, 220-225.
- BMDP Statistical Software Inc, (1993). 12121 Wilshire Blvd, Suite 300 Los Angeles, CA 90025 USA.
- Canini, A., Leonardi, D., and Caiola, M. G., (2001). Superoxide dismutase activity in the cyanobacterium *Microcystis aeruginosa* after surface bloom formation. **New Phytologist.** 152, 107-116.
- Carmichael, W.W., 1994. The toxins of cyanobacteria. **Scientific American.** 64-67.

- Carmichael, W.W., 1997. The cyanotoxins *IN*: Callow, J.A(Ed), Advances in Botanical Research vol 27. Academic press, London pp211 256.
- Caiola, M.G., and Pellegrini, S., 1984. Lysis of *Microcystis aeruginosa* (Kutz) by *Bdellovibrio*-like bacteria. **Journal of Phycology**. 20, 471-475.
- Caron, N-v., Stephens, P., Badlyey, R.A., 1998. Assessment of bacterial viability status by flow cytometry and single cell sorting. **Journal of Applied Microbiology**. 84, 988-998.
- Choi, H-j., Kim, B-h., Kim, J-d., Han, M-s., 2005. *Streptomyces neyagawaensis* as a control for the hazardous biomass of *Microcystis aeruginosa* (Cyanobacteria) in eutrophic freshwaters. **Biological Control**. 33, 335-343.
- Chutter, F.M., 1989. Evaluation of the impact of the 1mg/L phosphate-P standard on the water quality and trophic state of Hartebeespoort Dam. Contract Report to the Water Research Commission, Pretoria.
- Christison, J., and Martin, S.M., 1971. Isolation and preliminary characterization of an extracellular protease of *Cytophaga* sp. **Can J Microbiol**. 17, 1207-1216.
- Cloete, T.E., and Oosthuizen, D.J., 2001. The role of extracellular exopolymers in the removal of phosphorus from activated sludge. **Water Research**. 35, 3595 - 3598.
- Codd, G.A., and Bell, S.G., 1996. The occurrence and Fate of Blue-Green Algal Toxins in Freshwaters. R&D Report 29 for National Rivers Authority. Department of Biological Sciences, University of Dundee, Dundee, United Kingdom. Pp 30.
- Codd, G.A., Ward, C.J., Bell, S.G., 1997. Cyanobacterial toxins: occurrence modes of action, health effects and exposure routes. **Archives Toxicology Supplement**. 19, 399-411.

- Codd, G. A., Bell, S. G., Kaya, K., Ward C. J., Beattie, K., A., Metcalf, J. S. 1999. Cyanobacterial toxins, exposure routes and human health. **Eur. J. Phycol.**, 34, 405-415.
- Codd, G.A., 2000. Cyanobacterial toxins, the perception of water quality, and the prioritisation of eutrophication control. **Ecological Engineering**. 16, 51-60.
- Collier, J.L., 2000. Flow cytometry and single cell in phycology. **A Review. Journal of Phycology**. 36, 628-644.
- Cronberg, G., Carpenter, E.J., Carmichael, W.W., 2003. Taxonomy of harmful cyanobacteria. In: G.M. Hallegraeff, D.M. Anderson and A.D. Cembella (eds.), *Manual on Harmful Marine Microalgae*. Unesco Publishing pp. 523-562.
- Czaban, J., Księżniak, A., Perzyński, A., 2004. An attempt to protect winter wheat against *Fusarium culmorum* by the use of Rhizobacteria *Pseudomonas fluorescens* and *Bacillus mycoides*. **Polish Journal of Microbiology**. 53, 175-182.
- Daft, M.J., and Stewart, W.D.P., 1971. Bacterial pathogens of freshwater blue green algae. **New Phytologist**. 70, 819-829.
- Daft, M.J., and Stewart, W.D.P., 1973. Light and electron microscope observations on algal lysis by bacterium CP-1. **New Phytologist**. 72, 799-808.
- Daft, M.J., McCord, S.B., Stewart, W.D.P., 1973. The occurrence of blue-green algae and lytic bacteria at a waterworks in Scotland. **Water Treatment & Examination**. 22, 114-124.
- Daft, M.J., McCord, S.B., Stewart, W.D.P., 1975. Ecological studies on algal lysing bacteria in fresh waters. **Freshwater Biology**. 5, 577-596.

- Daft, M.J., Burnham, J.C., Yamamoto, Y., 1985a. Algal blooms: consequences and potential cures. **Journal of Applied Bacteriology symposium Supplement**. 175S-186S.
- Daft, M.J., Burnham, J.C., Yamamoto, Y., 1985b. Lysis of *Phormidium luridum* by *Myxococcus fulvus* in continuous flow cultures. **Journal of Applied Bacteriology**. 59, 73-80.
- Davey, M.H., 1994. Flow cytometry of micro-organisms. PhD Thesis. Institute of Biological Sciences, University of Wales, Aberystwyth. <http://qbab.aber.ac.uk/thesis/topen.html> (accessed 21/05/06).
- Di Franco, Beccari, E., Santini, T., Pisaneschi, G., Tecce, G., 2002. Colony shape as a genetic trait in the pattern-forming *Bacillus Mycoides*. Tecce, Università La Sapienza Roma, Italy, November 2002. <http://bmc.ub.uni-potsdam.de/1471-2180-2-33/text.htm> (accessed 07/03/2006).
- Dobson, M.J., and McCurdy, H.D., 1979. The function of fimbriae in *Myxococcus xanthus*. 1. Purifications and properties of *M. xanthus* fimbriae. **Canadian Journal of Microbiology**. 25, 1152-2260.
- Dubelaar, G.B.J., and Reijden, van der C.S., 1995. Size distribution of *Microcystis aeruginosa* colonies: A flow cytometric approach. **Water Science Technology**. 32, 171 – 176.
- DWA (1988). Important announcement on implementation of Special Phosphate standard in sensitive catchments. **IMIESA (Johannesburg)**. 13(9), 35.
- Dworkin, M., 1966. Biology of the myxobacteria. **Annu. Rev. Microbiol.** 20,75-106.
- Dworkin, M., and Sudo, S., 1972. Bacteriolytic enzymes produced by *Myxococcus xanthus*. **J Bacteriol.** 110, 236-245.

- Falconer, I.R., Beresford, A.M., Runnegar, M.T.C., 1983. Evidence of liver damage by toxin from a bloom of the blue green alga, *Microcystis aeruginosa*. **Med. J. Aust.** 1, 511-514.
- Fraleigh, P.C., and Burnham, J.C., 1988. Myxococcal predation on Cyanobacterial Populations: Nutrient Effects. **Limnology and Oceanography**. 33, 476-483.
- Franklin, N.M., Adams, M.S., Stauber, J.L., Lim, R.P., 2001. Development of a improved Rapid Enzyme Inhibition Bioassay with Marine & Freshwater Microalgae Using Flow Cytometry. **Archives of Environmental Contamination and Toxicology**. 40, 469 – 480.
- Franklin, N.M., Stauber, J.L., Lim, R.P., 2004. Development of multispecies algal bioassays using flow cytometry. **Environmental Toxicology and Chemistry**. 23, 1452-1462.
- Fray, P., 1993. The blue-greens (Cyanophyta-Cyanobacteria).-Studies in biology/Institute of Biology: no. 160. (1st ed). Edward Arnold Ltd, London. Pp 5-83.
- Fritze, D., 2004. Taxonomy of the genus *Bacillus* and related genera: The aerobic endospore-forming bacteria. **Phytopathology**. 94, 1245-1248.
- García-Villada, L., Rico, M., Altamirano, M., Sánchez-Martín L., López-Rodas, V., Costas, E., 2004. Occurrence of copper resistant mutants in the toxic cyanobacteria *Microcystis aeruginosa*: characterisation and future implications in the use of copper sulphate as algaecides. **Water Research**. 38, 2207-2213.
- Gestsky, R., Shtienberg, D., Elad, Y., Dinooor, A., 2002. Improved Biocontrol of *Botrytis cinerea* on Detached Strawberry Leaves by Adding Nutritional Supplements to a Mixture of *Pichia guilivermondii* and *Bacillus mycoides*. **Biocontrol Science and Technology**. 12, 625-630.

- Gibson, C.E., and Smith, R.V., 1982. Freshwater plankton. In: Carr N.G and Whitton B.A. (eds.), *The Biology of cyanobacteria*, Botanical monographs, vol 19. University of California Press. Pp 463-489.
- Glazer, A.N., 1989. Light guides. Directional energy transfer in a photosynthetic antenna. **Journal of Biological Chemistry**. 264, 1-4.
- Gliwicz, Z.M., 1990. Why do cladocerans fail to control algal blooms? *Hydrobiologia* 200/201: 83-97. In R.D Gulati, E.H.R.R. Lammens, M.-L. Meijer & E. van Donk (eds), *Bio-manipulation – Tool for Water Management*. Kluwer academic Publishers, Belgium.
- Gnossopelius, G., 1978. Purification and properties of an extracellular protease from *Myxococcus virescens*. **J Bacteriol**. 133, 17-25.
- Godden, L., 2005, Water Law Reform in Australia and South Africa: Sustainability, Efficiency and Social Justice, **Journal of Environmental Law**. 17 (2), 181–205.
- Greenop, B., and Robb, M., 2001. Phosphorus in the Canning: 1999-2000 Phoslock™ trials. **River Science**. 17, 1-7.
- Guillard, R.R.I., 1973. Division rates. In: J.R. Stein (ed.), *Handbook of phycological methods, Culture methods and growth measurements*, pp 289-311. London, Cambridge Univ. Press.
- Guillard, R.R.I., 1978. Using the standard microscope – counting slides. In: Sournia, A. (ed.), *Phytoplankton Manual*. United Nations Educational, Scientific and Cultural Organization, Paris, pp. 182–189.
- Haider, S., Naithani, V., Viswanathan, P.N., Kakkar P., 2003. Review Cyanobacterial toxins: a growing environmental concern. **Chemosphere**. 52, 1-21.

- Harding, W.R., and Paxton, B., 2001. Cyanobacteria in South Africa: A Review. WRC Report No. TT 153/01, July 2001.
- Harding, W.R., Thornton, J.A., Steyn, G., Panuska, J., Morrison, I.R., 2004. Hartbeespoort dam Remediation Project (Phase 1). Final Report (Volume 1). Project Number 58/2003. Completed October 2004. Department of Agriculture, Conservation, Environment and Tourism (DACET) of the Provincial Government of North West Province (NWPG), South Africa. 166pp.
- Hart, B.A., and Zahler, S.A., 1966. Lytic enzyme produced by *Myxococcus xanthus*. **J Bacteriol.** 92, 1632-1637.
- Haska, G., 1974. Extracellular lytic enzymes of *Myxococcus virescens*. IV. Purification and characterization of a D-alanyl-e-N-lysine and endopeptidase. **Physiol Plant.** 31, 252-256.
- Hawkins, P.R., Chandrasena, N.R., Jones, G.J., Humpage, A.R., Falconer, I.R., 1997. Isolation and toxicity of *Cylindrospermopsis raciborskii* from ornamental lake. **Toxicon.** 35, 341-346.
- Hayden, G.E., Walker, K.Z., Miller, J.F.A.P., Wotherspoon, Raison, R.L., 1988. Simultaneous Cytometric Analysis for the expression of cytoplasmic and surface antigens in Activated T Cells. **Cytometry**, 9, 44-51.
- Herbert, R.B., 1989. The biosynthesis of secondary metabolites. 2nd edn, Chapman and Hall, London.
- Hickey, P.C., Swift, S.R., Roca, M.G., Read, N.D., 2004. Live-cell Imaging of Filamentous Fungi Using Vital Fluorescent Dyes and Confocal Microscopy. **Methods in Microbiology.** 34, 63-87.

- Hoeger, S.J., Shaw, G., Hitzfeld, B.C., Dietrich, D.R., 2004. Occurrence and elimination of cyanobacterial toxins in two Australian drinking water treatment plants. **Toxicon**. 43, 639-649.
- Hoiczky, E., and Hansel, A., 2000. Cyanobacterial cell walls: news from an unusual prokaryotic envelope. **J. Bacteriol.** 182:1191-1199.
- Holm-Hasen, O., 1968. Ecology, physiology and biochemistry of blue-green algae. **Ann Rev Microbiol.** 22, 47-70.
- Hitzfeld, B.C., Höger, S.J., Dietrich, D.R., 2000. Cyanobacterial Toxins: Removal during Drinking Water Treatment, and Human Risk Assessment. Environmental Health Perspectives Supplements, **A Review in Environmental Health.** 108 (1), 113-122. (online edition accessed 25/08/2004). <http://ehpnet1.niehs.nih.gov/docs/2000/suppl-1/113-122hitzfeld/abstract.html>
- Jacobsen, B. J., Zidack, N. K., and Larson, B. J. 2004. The role of *Bacillus*-based biological control agents in integrated pest management systems: Plant diseases. **Phytopathology** 94,1272-1275.
- Jang, M-H., Ha K., Joo, G-J., Takamura, N., 2003. Toxin production of cyanobacteria is increased by exposure to zooplankton. **Freshwater Biology.** 48, 1540-1550.
- Jensen, T.E., 1968. Electron microscopy of polyphosphate bodies in blue green alga, *Nostoc pruniforme*. **Archive fur Mikorobiologie.** 62, 144-152.
- Jochimsen, E.M., Carmichael, W.W., An, J., Cardo, D.M., J.M., Cookson, S.T., Holmes, C.E.M., Antunes, M.B., de Melo Filho, D.A., Lyra,D.M., Barreto,VS.T., Azevedo, S., Jarvis, W.R. 1998. Liver Failure and Death after Exposure to Microcystins at a Haemodialysis Centre in Brazil. **New England Journal of Medicine.** 338, 873-878.

- Jones, G.J., Bourne, D.G., Blakeley, R.L., Jones, A., Negri, A.P., Riddles, P., 1996. Enzymatic pathway for the bacterial degradation of the cyanobacterial peptide toxin microcystins LR. **Applied and Environmental Microbiology**. 62, 4086-4094.
- Jones, G.J., and Orr, P.T., 1994. Release and degradation of microcystin following algicide treatment of a *Microcystis aeruginosa* bloom in a recreational lake, as determined by HPLC and protein phosphatase inhibition assay. **Water Research**. 28, 871-876.
- Joska M.A.P., and Bolton J.J, (1994). Preliminary investigation into algal weeds in inland waters. *Water Research Commission, WRC Report No. 426/1/94*.
- Joux, F., and Lebaron, P., 2000. Use of fluorescent probes to assess functions of bacteria at single cell-level. **Microbes and Infection**. 2, 1523-1535.
- Joyce, E., Phull, S.S., Lorimer, J.P., Mason, T.J., 2003. The development and evaluation Of ultrasound for the treatment of bacterial suspensions. A study of frequency, power and sonication time on cultured *Bacillus* species. **Ultrasonics Sonochemistry**.10, 315–318.
- Kaprelyants, A.S., and Kell, D.B., 1993. Dormancy in stationary-phase cultures of *Micrococcus luteus*: flow cytometric analysis of starvation and resuscitation. **Applied and Environmental Microbiology**. 59, 3187-3196.
- Kirchman, D.L., 2002. The ecology of *Cytophaga* flavobacteria in aquatic environments. **FEMS Microbiology Ecology**. 39, 91-100.
- Klapper H, (1999). Control of eutrophication in inland waters Ellis Horwood, Chichester, UK 337 pp97 100.
- Korsten, L., and Cook, N., 1996. Optimizing culturing conditions for *Bacillus subtilis*. **South African Avocado Growers' Association Yearbook**. 19, 54-58.

- Krüger, G.H.J., and Eloff, J.N., 1977. The influence of light intensity on the growth of different *Microcystis* isolates. **Journal of Limnology Society of South Africa**. 3, 21-25.
- Kulik, M.M., 1995. The potential for using cyanobacteria (blue green algae) and algae in the biological control of pathogenic bacteria and fungi. **European Journal of Plant Pathology**. 101, 585-599.
- Lam, A.K.-Y., Prepas, E.E., David, S., Hrudey, S.E., 1995. Chemical control of heptatotoxic phytoplankton Blooms: Implications for human health. **Water Research**. 29, 184-554.
- Latour, D., Sabido, O., Salencon, M.J., Giraudet, H., 2004. Dynamics and metabolic activity of the benthic cyanobacterium *Microcystis aeruginosa* in the Grangent reservoir (France). **Journal of Plankton Research**. 26, 719-726.
- Lee, T.J., Nakano, K., Matsumura, M., 2000. A new method for the rapid evaluation of gas vacuoles regeneration and viability of cyanobacteria by flow cytometry. **Biotechnology Letters**. 22, 1833-1838.
- Madison, M.T., Martinko, J.M. and Parker, J., 2003. *Biology of Microorganisms*. 10th edition.
- Marie, D., Simon, N., Vaulot, D., 2005. Chapter 17: Phytoplankton cell counting by flow cytometry. In *Algal Culturing Techniques*. Academic Press. online edition accessed: 2005/02/11.
- Maruyama, T., Kato, K., Yokoyama, A., Tanaka, T., Hiraishi, A., Park, H.-D., 2003. Dynamics of Microcystin-Degrading Bacteria in Mucilage of *Microcystis*. **Microb Ecol**. 46:279-288.
- Mason, C.F., 1996. *Biology of freshwater pollution*, 3rd edition. Longman, Essex.

- Meybeck M, Kuusisto E, Mäkelä A, Mälkki E, (1996). *Water Quality*, In: Bartram, J, Balance, R (eds), *Water Quality Monitoring*. E and FN Spon, London 9-33.
- Moezelaar R., and Stal, L.J., 1997. A comparison of fermentation in the cyanobacterium *Microcystis* PCC7806 grown under a light/dark cycle and continuous light. **Eur. J. Phycol.** 32, 373-378.
- Murphy, R., 1996. Basic Theory 1 - PowerPoint lecture slides, *Carnegie Mellon University*, *Pittsburgh*, *PA*
www.cyto.purdue.edu/flowcyt/educate/theory/theory.htm (accessed 14/05/06)
- NHMRZ/ARMCANZ, 2001. Australian drinking water guidelines, micro-organism 3: toxic algae, Fact Sheets No. 17a-17d, National Health and Medical Research Council, Agriculture Resource Management Council of Australia and New Zealand, Canberra.
- Nakamura, N., Nakano, K., Sungira, N., Matsumura, M., 2003a. A novel control process of cyanobacterial bloom using cyanobacteriolytic bacteria immobilized in floating biodegradable plastic carriers. **Environmental Technology**. 24, 1569-1576.
- Nakamura, N., Nakano, K., Sugiura, N., Matsumura, M., 2003b. A novel cyanobacteriolytic bacterium, *Bacillus cereus*, Isolated from a Eutrophic Lake. **Journal of Bioscience and Bioengineering**. 95, 179-184.
- National Institute for Water Research (NIWR) (1985). The Limnology of Hartbeespoort Dam, South African National Scientific Programs Report No. 110, Foundation for Research Development, Council for Scientific and Industrial Research, Pretoria, 269 pp.
- NSW, 2000. Preventing and managing blue-green algal blooms . NSW Department of Land and Water Conservation. www.dlwc.nsw.gov.au (accessed 16/10/2005)

- National Water Act (NWA), 1998. Act 36 of 1998. Government Gazette, vol 398 number19182, Cape Town, 26 August, 1998. Republic of South Africa.
- Oberholster, P.J., Botha, A.M., Grobbelaar, J.U., 2004. Review *Microcystis aeruginosa*: source of toxic microcystins in drinking water. **African Journal of Biotechnology**. 3, 159-168.
- Orr, P.T., and Jones, G.J., 1998. Relationship between microcystin production and cell division rates in nitrogen-limited *Microcystis aeruginosa* cultures. **Limnology and Oceanography**. 43, 1604-1614.
- Petit, J.M., Denis-Gay, M., Ratinaud, M.H., 1993. Assessment of fluorochromes for cellular structure and function studies by flow cytometry. **Biol Cell**. 78, 1-13.
- Phinney, D.A., and Cucci, T.L., 1989. Flow cytometry and phytoplankton. **Cytometry**. 10, 51 – 521.
- Rae, B., Moolman, R.M., Clark, R.C., 1999. Algal toxins in drinking water supply. WRC Report No. 549/1/99.
- Rapala, J., Lahti, K., Räsänen, L.A., Anna-Liisa, E., Niemelä, S.I., Sivonen, K., 2002. Endotoxins associated with cyanobacteria and their removal during drinking water treatment, **Water Research**. 36, 2627-2635.
- Rapala, J., Lahti, K., Niemelä, S.I., Sivonen, K., 1994. Biodegradability and adsorption on lake sediments of cyanobacterial hepatoxins and anatoxin-a. **Letters in Applied Microbiology**. 19, 423-428.
- Regel, R.H., Ferris, J.M., Ganf, G.G., Griffiths, R.W., 2002. Algal esterase activity as a biomeasure of environmental degradation in a freshwater creek. **Aquatic Toxicology**. 59, 209-223.

- Regel, R.H., Brookes, J.D., Ganf, G.G., Griffiths, R.W., 2004. The influence of experimentally generated turbulence as the Mash01 unicellular *Microcystis aeruginosa* strain. **Hydrobiologia**. 517, 107-120.
- Reim, R.L., Shane, M.S., Cannon, R.E., 1974. The characterization of *Bacillus* capable of blue green bactericidal activity. **Canadian Journal of Microbiology**. 20, 981-986.
- Reynolds, C.S., Jaworski, G.H.M., Cmiech, H.A., Leedale, G.F., 1981. On the annual cycle of the blue green alga *Microcystis aeruginosa* Kutz. *Emend. Elenkin*. **Philosophical Transaction of the Royal Society of London. Series B, Biological Sciences**. 293, 419-477.
- Richard, D.S., Beattie, K.A., Codd, G.A., 1983. Toxicity of cyanobacterial blooms from Scottish freshwaters. **Environ. Technol. Letters**. 4, 377-382.
- Richard, Y., and Pocard, I., 1998. A statistical study of NDVI sensitivity to seasonal and interannual rainfall variations in Southern Africa. **International Journal of Remote Sensing**. 19, 2907-2920.
- Rieseberg, M., Kasper, C., Reardon, K.F., Scheper, T., 2001. Flow cytometry in Biotechnology. **Appl Microbiol Biotechnol**. 56:350–360
- Riemann, L., Steward, G.F., Azam, F., 2000. Dynamics of bacterial community composition and activity during a mesocosm diatom bloom. **Appl. Environ. Microbiol**. 66, 578-587.
- Robarts, R.D., Ashton, P.J., Thornton, J.A., Taussig, H.J., Sephton, L.M., 1982. Overturn in a hypertrophic, warm, monomictic impoundment (Hartbeespoort dam, South Africa). **Hydrobiologia**. 97, 209-224.

- Robarts, R.D., and Zohary, T., 1986. Influence of cyanobacterial hyperscum on heterotrophic activity of planktonic bacteria in a hypertrophic lake. **Applied and Environmental Microbiology**. 51, 609-613.
- Robb, M., Greenop, B., Goss, Z., Douglas, G., Adeney, J., 2003. Application of Phoslock an innovative phosphorus binding clay, to two Western Australian waterways: preliminary findings. **Hydrobiologia**. 494, 237-243.
- Rositano, J., Newcombe, G., Nicholson, B., Sztajn bok, P., 2001. Ozonation of NOM and algal toxins in four treated waters. **Water Research**. 35, 23-32.
- Ross, D.D., Joneckis, C.C., Ordóñez, J.V., Sisk, Am., Wu, R.K., Hamburger, A.W., Nora, R.E., 1989. Estimate of cell survival by flow cytometric Quantification of Fluorescein Diacetate/Propidium Iodide viable Cell Number. **Cancer Research**. 49, 3776 – 3782.
- Runnegar, M.T.C., Andrews, J., Gerdes, R.G., Falconer, I.R., 1987. Injury to hepatocytes by a peptide toxin from the cyanobacterium *Microcystis aeruginosa*. **Toxicon**. 25, 1235-1239.
- SABC News, 2003. Contaminated water affects thousands in Brits. October 23, 2003. www.sabcnews.com/article/printwholestory/0,2160,67894,00.html (accessed 24/10/03)
- Sallal, A-K.J., 1994. Lysis of cyanobacteria with Flexibacter spp isolated from domestic sewage. **Microbios**. 77, 57-67.
- Scott, W.E., 1991. Occurrence and significance of toxic cyanobacteria in Southern Africa. **Water Research Technology**. 23, 175-180.

- Schneegurt, M.A., Sherman, D.M., Nayar, S., Sherman, L.A., 1994. Oscillating Behavior of Carbohydrate Granule Formation and Dinitrogen Fixation in the Cyanobacterium *Cyanothece* sp. Strain ATCC 51142. **Journal of Bacteriology**. 176, 1586-1597.
- Secord, D., 2003. Biological control of marine invasive species: cautionary tales and land-based lesions. **Biological Invasions**. 5, 117-131.
- Shilo, M., 1970. Lysis of Blue Green Algae by *Myxobacter*. **Journal of Bacteriology**. 104, 453-461.
- Sieracki, M.E., Cucci, T.L., Nicinski, J., 1999. Flow cytometric analysis of the 5-cyano-2,3-ditolyl tetrazolium chloride activity of marine bacterioplankton in dilution cultures. **Applied and environmental Microbiology**. 65, 2409-2411.
- Sigeo, D.C., Glenn, R., Andrews, M.J., Bellinger, E.G., Butler, R.D., Epton, H.A.S., Hendry, R.D., 1999. Biological control of cyanobacteria: principles and possibilities. *Hydrobiologia* 395/396:161-172, *In The Ecological Bases for Lake and Reservoir Management*, Harper DM, Brierley, Ferguson AJD, Philips G (eds), Kluwer Academic Publishers, Netherlands.
- Sivonen, K., and Jones, G., 1999. Cyanobacterial toxins. In: I Chorus and J Bartram (eds.), *Toxic Cyanobacteria in water*, E & FN Spon, London, pp 41-111.
- Skulberg, O.M., Carmichael, W.W., Codd, G.A., Skulberg, R., 1993. Taxonomy of toxic Cyanophyceae (cyanobacteria). In: Falconer R. (ed.). *Algal toxins in seafood and drinking water*. Academic Press Ltd., London. Pp 145-164.
- Smayda, T.J., 1978. Estimating cell numbers. In: Sournia, A. (ed.), *Phytoplankton Manual*. United Nations Educational, Scientific and Cultural Organization, Paris, pp. 165–166.

- Stewart, W.D.P., and Alexander, G., 1971. Phosphorus availability and nitrogenase activity in aquatic blue-green algae. **Freshwater Biology**. 1, 389-404.
- Stewart, W.D.P., Daft, M.J., McCord, S., 1973. The occurrence of blue green algae and lytic bacteria at a waterworks in Scotland. **Water Treatment and Examination**. 22, 114-124.
- The Water Wheel, 2004. New Hope for Troubled waters: The Hartbeespoort dam, Eutrophication management. January/February 2004 3(1):19
- Tucker, S., and Pollard, P., 2004. Identification of Cyanophage Ma-LBP and Infection of the Cyanobacterium *Microcystis aeruginosa* from an Australian Subtropical Lake by the Virus. **Applied and Environmental Microbiology**. 71, 629-635.
- Ueno, Y., Nagata, S., Tsutsumi, T., Hasegawa, A., Watanabe, M.F., Park, H.D., Chen, G.C., Yu, S.Z., 1996. Detection of microcystins, a blue green algal hepatotoxin, in drinking water sampled in Hauimen and Fusui, endemic areas of primary liver cancer in China, by highly sensitive immunoassay. **Carcinogenesis**. 17, 1317-1321.
- Van Ginkel, C.E., 2003. A National Survey of the incidence of cyanobacterial blooms and toxin production in major impoundments. Internal Report No. N/0000/00/DEQ/0503. Resource Quality Services, Department of Water Affairs and Forestry. Pretoria.
- Van Ginkel, C.E., 2002. Trophic Status Assessment, Executive Summary. Institute for Water Quality Studies, Department of Water Affairs and Forestry, Pretoria. June 2002.
- Veal, D.A., Deere, D., Ferrari, B., Piper, J., Attfield, P.V., 2000. Fluorescence staining and flow cytometry for monitoring microbial cells. **Journal of Immunological Methods**. 243, 191-210.

- Veldhuis, M.J.W., Kraay, G.W., Timmermans, K.R., 2001. Cell death in phytoplankton: correlation between changes in membrane permeability, photosynthetic activity, pigmentation and growth. **European Journal of Phycology**. 36: 167-177
- Villain, S., Luo, Y., Hildreth, M.B., Brözel, V.S., 2006. Analysis of the Life Cycle of the Soil Saprophyte *Bacillus cereus* in Liquid Soil Extract and in Soil. **Applied and Environmental Microbiology**. 72, 4970-4977.
- Vives-Rego, J., Lebaron, P., Nebe-von Caron G, 2000. Current and future applications of flow cytometry in aquatic microbiology. **FEMS Microbiology Reviews**. 24, 429 – 448.
- Wintzingerode, von F., Rainey, F.A., Kroppenstedt, R.M., Stackebrandt, E., 1997. Identification of environmental strains of *Bacillus mycoides* by fatty acid analysis and specific 16S rDNA oligonucleotides probe. **FEMS Microbiology Ecology**. 24, 201-209.
- Wakelin, S.A., Walter, M., Jasper, M., Stewart, A., 2002. Biological control of *Aphanomyces euteiches* root-rot of pea with spore-forming bacteria. **Australasian Plant pathology**. 31, 401-407.
- Walker, H.L., Higginbotham, L.R., 2000. An aquatic bacterium that lyses cyanobacteria associated with off-flavor of channel catfish (*Ictalurus punctatus*). **Biological control**. 18, 71-78.
- Wiedner, C., Visser, P.M., Fastner, J., Metcalf, J.S., Codd, G.A., Mur, L.R., 2003. Effects of Light on the Microcystin Content of *Microcystis* Strain PCC 7806. **Applied and Environmental Microbiology**. 69. 1475-1481.
- Wilkinson, C.R., 1979. *Bdellovibrio*-Like Parasite of Cyanobacteria Symbiotic in Marine Sponges. **Archives in Microbiology**. 123, 101-103.

- Wolfe, R.S., and Ensign, J.C., 1965. Lysis of bacterial cell walls by an enzyme isolated from a *Myxobacter*. **J Bacteriol.** 90, 395-402.
- Wolfe, R.S., and Ensign, J.C., 1966. Characterisation of a small proteolytic enzyme which lyses bacterial cell walls. **J Bacteriol.** 91, 524-534.
- Wolfe, R.S., Wingard, M., Matsueda, G., 1972. *Myxobacter* AL-1 Protease II: Specific Peptide Bond Cleavage on the Amino Side of Lysine. **J Bacteriol.** 112, 940-949.
- World Health Organization (WHO), 1997. Report of the Working Group on Chemical Substances in Drinking Water, Geneva, 22-26 April 1997. Section 5.2, Microcystin-LR. World Health Organization, Geneva, 1pp.
- World Health Organization (WHO), 1998. Guidelines for Drinking Water Quality. Second Edition, addendum to Volume 2, Health Criteria and Other Supporting Information, World Health Organization, Geneva, pp 95-110
- World Health Organization (WHO), 1999. Toxic cyanobacteria in water, Chorus I, Bartram J, (eds), E&FN Spon, Routledge, London.
- Wright, S.J.L., and Thompson, R.J., 1985. *Bacillus* volatiles antagonize cyanobacteria. **FEMS Microbiology Letters.** 30, 263-267.
- Wright, S.J.L., Linton, C.J., Edwards, R.A., Drury, E., 1991. Iso-amyl alcohol (3-methyl-1-butanol), a volatile anticyanobacterial and phytotoxic product of some *Bacillus* spp. **Lett Appl. Microbiol.** 13, 130-132.
- Yair, S., Yaacov, D., Susan, K., Jurkevitch, E., 2003. Small eats big: ecology and diversity of *Bdellovibrio* and like organism, and their dynamics in predator-prey interactions. **Agronomie.** 23, 433-439.

- Yamaguchi, N., and Nasu, M., 1997. Flow cytometric analysis of bacterial respiratory and enzymatic activity in the natural aquatic environment. **Journal of Applied Microbiology**. 83, 43-52.
- Yamamoto, Y., Kouchiwa, T., Hodoki, Y., Hotta, K., Uchida, H., Harada, K., 1998. Distribution and identification of actinomycetes lysing cyanobacteria in a eutrophic lake. **J. Appl. Phycol.** 10, 391-397.
- Yoshizawa, S., Matsushima, R., Watanabe, M.F., Harada, K., Ichihara, A., Carmichael, W.W., Fujiki, H., 1990. Inhibition of protein phosphatases by microcystins and nodularin associated with hepatotoxicity. **J. Cancer Res. Clin. Oncol.** 116, 609-614.
- Zohary, T., Breen, C.M., 1989. Environmental factors favouring the formation of *Microcystis aeruginosa* hyperscums in a hypertrophic lake. **Hydrobiologia**. 178, 179-192.
- Zohary, T., 1987. On the ecology of hyperscum-forming *Microcystis aeruginosa* in a hypertrophic African lake. Unpublished PhD Thesis, University of Natal, Pietermaritzburg.
- Zubkov, M.V., Fuchs, B.M., Eilers, H., Burkill, P.H., Amann, R., 1999. Determination of total protein content of bacterial cells by SYPRO staining and flow cytometry. **Applied Environmental Microbiology**. 65, 3251-3257.