

**David J. Patterson, B.Sc., Ph.D., D.Sc.**

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## ACADEMIC APPOINTMENTS

Emeritus Professor, School of Biological Sciences, University of Sydney, Australia.

Professor (MBL) Ecology and Evolutionary Biology, Brown University, Providence, Rhode Island.

## PERSON DETAILS

Born: Belfast N. Ireland, 19 April 1950

Citizenship: Irish

Passport Number LT 0037725, issued 9th Oct. 2008 Dublin, Ireland; expires 9 Oct 2018

Residency Status: Permanent Resident of Australia (Visa Grant number 8079542595586)

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## EDUCATION

B.Sc. 1971 Queen's University, Belfast, Ireland; Biology

Ph.D. 1976 University of Bristol, Bristol, United Kingdom; Protozoology, Supervisor: M A Sleigh

D.Sc. 1990 Queen's University, Belfast, Ireland; Protistology

## PROFESSIONAL APPOINTMENTS (CHRONOLOGICAL ORDER)

1977 - 1990: Lecturer, University of Bristol, Bristol, United Kingdom

1990 - 1992: Reader in Protozoology, University of Bristol, Bristol, United Kingdom

1992 - 2004: Professor in Biology, University of Sydney, Sydney, Australia

2001 - 2003: Adjunct Scientist, Marine Biological Laboratory, Woods Hole, MA

2003 -2013: Senior Scientist, Marine Biological Laboratory, Woods Hole, MA

2005 - present: Emeritus Professor, University of Sydney, Sydney, Australia

2005-2008, 2011- present: Professor (MBL), Brown University, Providence, Rhode Island.

2009 - present: Senior Advisor, Sloan Foundation

2011 - 2012: Adjunct Professor, Arizona State University

2012 - 2013: Research Professor, Arizona State University

2013 - Unemployed

## PUBLICATIONS

### a. Books/monographs (authored and/or edited volumes)

- Sheehan, K. B., **Patterson, D. J.**, Dicks, B. L. & Henson, J. B. 2005. Seen and Unseen, discovering the microbes of Yellowstone. Falcon Press, USA
- Patterson, D. J.** & Burford, M. A. 2001. A guide to the protozoa of marine aquaculture ponds. CSIRO Publishing, Collingwood, Australia. ISBN 0 643 06669 1.
- Patterson, D. J.** 1996. Free-living Freshwater Protozoa, Manson; Wiley and University of New South Wales Presses.
- Setälä, O., Kuupo, P., Ekeboom, J. Kuosa, H. & **Patterson, D.J.** (eds). 1995. Workbook on Protist Ecology and Taxonomy. Proceedings from the 1st Workshop on Protistology at Tvärminne Zoological Station 1992. Yliopistopaino, Helsinki. (with several contributions)
- Patterson, D. J.** 1992. *Free-Living Freshwater Protozoa, A colour Guide*. Wolfe, London.
- Patterson, D. J.** & Larsen, J. (eds) 1991. *The Biology of Free-Living Heterotrophic Flagellates*, Clarendon Press, Oxford.
- Patterson, D. J.** & Corliss, J.O., eds. 1989. *Progress in Protistology*, Volume 3. Biopress, Bristol. 299 pp.
- Moestrup, Ø., Moss, S. T., **Patterson, D. J.**, Rizzo, P. J. & Sleigh, M. A. (editors) 1988. Papers presented at the 7th biennial meeting of the International Society for Evolutionary Protistology. *Biosystems* 21: 177-418.
- Corliss, J. O. & **Patterson, D. J.** 1987. *Progress in Protistology*, Volume 2. Biopress Ltd., Bristol. 390 pp.
- Corliss, J. O. & **Patterson, D. J.** (eds) 1986. *Progress in Protistology* 1, Biopress, Bristol, 419 pp.
- Hausmann, K & **Patterson, D. J.** 1985. *Einzeller Protisten, Arten und mikroskopische Anatomie*. Transparente Atlas Hegemann Lieder, Dusseldorf (appeared 1986)
- Hausmann, K. & **Patterson, D.J.** 1983. *Taschenatlas der Einzeller*. Kosmos Verlag, Stuttgart (also translated in Dutch).
- Patterson, D.J.** 1978. *Kahl's keys to the ciliates*. University of Bristol. (Translation).

### b. Chapters in books

- Patterson, D. J.** 2010. Encyclopedia of Life. pp 67-81. In Maurer, L, and Tochtermann, K. eds., Information and communication technologies for biodiversity conservation and agriculture. Shaker Verlag, Aachen.
- Patterson, D. J.** 2010. Future Taxonomy. In Polaszek, A., ed., *Systema Naturae 250 - The Linnaean Ark*, pp. 117-126. Taylor & Francis, London.
- Patterson, David J.** and Sogin, M. L. 2007. The micro\*scope web tool. pp 579-584 in Sullivan W. T., Baross, J. A., (eds) *Planets and Life: The emerging Science of Astrobiology*. Cambridge University Press, Cambridge.
- Sogin, M. l., **Patterson, David J.** and McArthur, A. 2007. The origin and diversification of eukaryotes. pp 265-274 in Sullivan W. T., Baross, J. A., (eds) *Planets and Life: The emerging Science of Astrobiology*. Cambridge University Press, Cambridge.
- Simpson, A. G. B. and **Patterson, D. J.** 2006. Current perspectives on high-level groupings of protists. In Katz, L and Bhattacharya. D., *Genomics and Evolution of Microbial Eukaryotes*, Oxford University press, pp 7-30.
- Patterson, D. J.**, Vørs, N., Simpson, A. G. B. & O'Kelly, C.J. 2002. Residual free-living and predatory heterotrophic flagellates. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds). *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 1302 – 1328.
- Patterson, D. J.**, Rogerson, A., & Vørs, N. 2002. Class Heterolobosea. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 1104-1111.
- Brugerolle, G. & **Patterson, D. J.** 2002. Order Pelobiontida Page, 1976. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd

- edition, Society of Protozoologists, Lawrence, Kansas. pp. 1097- 1103.
- Rogerson, A. & **Patterson, D. J.** 2002. The naked ramicristate amoebae (Gymnamoebae) In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 1023 – 1053.
- Mikrjukov, K. A., **Patterson, D. J.** & Siemensma, F.J. 2002. Phylum Heliozoa In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 860-871.
- Patterson, D. J.**, Simpson, A. G. B. & Rogerson, A. 2002. Amoebae of uncertain affinities In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society
- Delvinquier, B. L. J. & **Patterson, D. J.** 2002. Order Slopalinida. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 754 – 759.
- Patterson, D. J.** 2002. Residual heterotrophic stramenopiles. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 751-754.
- Simpson, A. G. B. & **Patterson, D. J.** 2002. Family Colpodellidae Simpson & Patterson, 19965. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 370-371.
- Patterson, D. J.** 2002. Changing views of protistan systematics: the taxonomy of protozoa – an overview. In Lee, J.J., Leedale, G.F. and Bradbury, P. (eds) *An Illustrated Guide to the Protozoa*, 2nd edition, Society of Protozoologists, Lawrence, Kansas. pp. 2-9.
- Patterson, D.J.** & Lee, W.J. 2000. Geographic distribution and diversity of free-living heterotrophic flagellates. In: "The Flagellates" Eds Green, J. and Leadbeater, B.S.C. Taylor and Francis, 269-287.
- Lee, W. J. & **Patterson, D. J.** 1999. Are communities of heterotrophic flagellates determined by their geography? In Ponder, W. and Lunney, D. The other 99%. The conservation and biodiversity of Invertebrates. *Trans. R. Soc. New South Wales*, Mosman, Sydney, pp 232-235.
- Patterson, D. J.** 1996. Morphology and natural habitats, in Anderson, O.R. and Druger, M. (Eds) *Explore the World Using Protozoa*. National Science Teachers Association, Virginia, USA. pp 28-34.
- Wainright, P.O., **Patterson, D.J.** & Sogin, M.L. 1994. Monophyletic origin of animals: a shared ancestry with fungi. pp 39-53 in Farmborough, D.M. (ed) *Molecular Evolution of Physiological processes*, Society of General Physiologists Series, No. 49; Rockefeller Press, New York.
- Patterson, D. J.** & Sogin, M. 1992. Eukaryote origins and protistan diversity. In: Hartman, H. and Matsuno, K. *The origin and evolution of the cell*. pp 13-46. World Scientific Publishers, New Jersey.
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- Patterson, D. J.** & Zölffel, M. 1991. Heterotrophic flagellates of uncertain taxonomic position. In **Patterson, D. J.** and Larsen, J. (eds) *The Biology of Free-Living Heterotrophic Flagellates*, Clarendon Press, Oxford, pp 427-475.
- Larsen, J. & **Patterson D. J.** 1991. The diversity of euglenoid flagellates: In Patterson, D. J. and Larsen, J. (eds) *The Biology of Free-Living Heterotrophic Flagellates*, Clarendon Press, Oxford. pp 205-217.
- Patterson, D. J.** 1989. Stramenopiles: chromophytes from a protistological perspective. In: Green, J.C., Leadbeater, B.S.C. & Diver, W. L. 1989. *The chromophyte algae: problems and perspectives*. Clarendon Press, Oxford. 357-379.
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- Patterson, D. J.** and Dürschmidt, M. 1986. Siliceous structures formed by heliozoa and heliozoon-like amoebae. In: Leadbeater, B. S. C. & Riding, R. (eds) "*Biomining in lower plants and animals*". Systematics Association Special Volume 30): 361-374.
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- Hausmann, K., Mulisch, M. & **Patterson, D. J.** 1985. *Protozoologie*. Thieme Verlag, Stuttgart. (also translated to Japanese and Russian)
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- Sleigh, M. A., Dodge, J. D. & **Patterson, D.J.** 1984. "Kingdom Protista" pp. 25 - 88 in Barnes, R. S. K. (Ed.) *A synoptic Classification of living organisms*. Blackwell Scientific Publications, Oxford.
- Patterson, D.J.** 1982. Feeding strategies in free-living protozoa. pp. 61 - 75 in Primrose, S. & Wardlaw, A.C. (eds) *Sourcebook of Experiments for the Teaching of Microbiology*, Academic Press, London.

### c. Refereed journal articles

- Egloff, W., **Patterson, D.J.**, Agosti, D. and Hagedorn, G. H. 2014. Open exchange of scientific knowledge and European copyright: The case of biodiversity information. *ZooKeys* 414:109-135. [10.3897/zookeys.414.7717](https://doi.org/10.3897/zookeys.414.7717)
- Patterson, D. J.** 2014. Helping protists to find their place in a Big Data world. *Acta Protozoologica*, 53: 115-128. doi:10.4467/16890027AP.14.011.1448
- Patterson, D. J.**, Egloff, W., Agosti, D., Eades, D., Franz, N., Hagedorn, G., Rees, J. A. and Remsen, D. P. 2014. Scientific names of organisms: attribution, rights, and licensing *BMC Research Notes* **7**:79 doi:10.1186/1756-0500-7-79
- Yabuki, A., Eikrem, W., Takishita, K., and **Patterson, D.J.** 2013. Fine structure of *Telonema subtilis* Griessmann, 1913: A flagellate with a unique cytoskeletal structure among eukaryotes. *Protist* 164:556-69. doi: 10.1016/j.protis.2013.04.004.
- Ptáčková, E., Kostygov, A.Y., Chistyakova, L.V., Falteisek, L., Frolov, A. O., **Patterson, D.J.**, Walker, G. and Cepicka, I. 2012. Evolution of Archamoebae: morphological and molecular evidence for pelobionts including *Rhizomastix*, *Entamoeba*, *Iodamoeba*, and *Endolimax*. *Protist*;164:380-410. doi: 10.1016/j.protis.2012.11.005.
- Hardisty, A., Roberts, D., with Addink, W., Aelterman, B., Agosti, D., Amaral-Zettler, L., Ariño, A. H. Arvanitidis, C., Backeljau, T., Bailly, N., Belbin, L., Berendsohn, W., Bertrand, V., Caithness, N., Campbell, D., Cochrane, G., Conruyt, N., Culham, A., Damgaard, C., Davies, N., Fady, B., Faulwetter, S., Feest, A., Field, D., Garnier, E., Geser, G., Gilbert, J., Grosche, B., Grosser, D., Herbinet, B., Hobern, D., Jones, A., de Jong, Y., King, D., Knapp, S., Koivula, H., Los, W., Meyer, C., Morris, R. A., Morrison, N., Morse, D., Obst, M., Pafilis, E., Page, L. M., Page, R., Pape, T., Parr, C., Paton, A., **Patterson, D. J.**, Paymal, E., Penev, L., Pollet, M., Pyle, R. von Raab-Straube, E., Robert, V., Robertson, T., Rovellotti, O., Saarenmaa, H., Schalk, P., Schaminee, J., Schofield, P., Sier, A., Sierra, S., Smith, V., van Spronsen, E., Thornton-Wood, S., van Tienderen, P., van Tol, J., Ó'Tuama, E., Uetz, P., Vaas, L., Vignes Lebbe, R., Vision, T., Vu, D., De Wever, A., White, R., Willis, K., and Young, F. 2013. A decadal view of biodiversity informatics: challenges and priorities. *BMC Ecology*, 13:16. doi:10.1186/1472-6785-13-16
- Murray, S., **Patterson, D.J.**, and Thessen, A. E. 2012. Transcriptomics and microbial eukaryote diversity: a way forward. *Trends in Ecology & Evolution* 08/2012; DOI:10.1016/j.tree.2012.08.011

- Thessen, A.E., **Patterson, D.J.** and Murray, S.A. 2012. The taxonomic significance of species that have only been observed once: The Genus *Gymnodinium* (Dinoflagellata) as an Example. PLoS ONE **7**: e44015. doi:10.1371/journal.pone.0044015
- David, J., Garrity, G., Greuter, W., Hawksworth, D., Jahn, R., Kirk, P., McNeill, J., Michel, E., Knapp, S., **Patterson, D.**, Tindall, B., Todd, J., van Tol, J., and Turland, N. 2012. Biological nomenclature terms for facilitating communication in the naming of organisms. ZooKeys 192: 67-72.
- Thessen, A. E., and **Patterson, D. J.** 2011. Data issues in the life sciences. ZooKeys 150: 15–51. doi: 10.3897/zookeys.150.1766
- Edgcomb, V. P., Breglia, S. A., Yubuki, N., Beaudoin, D., **Patterson, D. J.**, Leander, B. S., Bernhard, J. M. 2011. Identity of epibiotic bacteria on symbiontid euglenozoans in O<sub>2</sub>-depleted marine sediments: evidence for symbiont and host co-evolution. ISME Journal, 5: 231-243.
- Greuter, W., Garrity, G., Hawksworth, D. L., Jahn, R., Kirk, P.M., Knapp, S., McNeill, J., Michel, E., **Patterson, D.**, Pyle, R., and Tindall, B. 2011. Draft BioCode (2011): Principles and Rules Regulating the Naming of Organisms. Bulletin of Zoological Nomenclature, 68: 10-28; & Taxon 60: 201-212; & Bionomina I.
- Patterson, D.J.**, Cooper, J., Kirk, P. M., Pyle, R. L., and Remsen, D. P. 2010. Names - key to the big new biology. Trends in Ecology and Evolution, doi:10.1016/j.tree.2010.09.004
- Parfrey, L. W., Grant, J., Tekle, Y. I., Lasek-Nesselquist, E., Morrison, H., G., Sogin, M. L., **Patterson, D. J.** and Katz, L. A. 2010. Broadly Sampled Multigene Analyses Yield a Well-Resolved Eukaryotic Tree of Life. Systematic Biology, 59:518-33. DOI:10.1093/sysbio/syq037
- Grant, J., Tekle, J. I., Anderson, O. R., **Patterson, D.J.** and Katz, L., 2009. Multigene evidence for the placement of a heterotrophic amoeboid lineage *Leukarachnion* sp. among photosynthetic stramenopiles. Protist 160: 376-385. doi:10.1016/j.protis.2009.01.001
- Patterson, D. J.** 2009. Seeing the big picture on microbe distribution. Science, 325: 1506-1507.
- Patterson D.J., Faulwetter, S and Shipunov, A. 2008. Principles for a names-based cyberinfrastructure to serve all of biology, pp 153-163 In Minelli, A., Bonato, L., and Fusco, G. (eds). Updating the Linnaean Heritage: Names as tools for thinking about plants and animals. Zootaxa 1950, 1-163.
- Patterson, D. J.** 2008. The encyclopedia of life, not just another web encyclopedia! Limnology and Oceanography Bulletin, 17: 42-46.
- Yoon, H. S., Grant, J., Tekle, Y. I., Wu, M., Chaon, B. C., Cole, J. C., Logsdon, J. M., **Patterson, D. J.**, Bhattacharya, D., and Katz, L. A. 2007 Broadly sampled multigene trees of eukaryotes. BMC Evolutionary biology, 8: pages Leary, P. R., Remsen, D.P., Norton, C. N. **Patterson, D. J.** and Sarkar, I. N. 2007. uBioRSS: Tracking taxonomic literature using RSS. Bioinformatics, 23: 1434-1436
- Patterson, D. J.**, Bhattacharya, D., Cole, J., Dunthorn, M., Logsdon, J., Katz, L., and Wegener-Parfrey, L. 2007. Classifying protists. Microbiology today, Feb 07: 44-45.
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- Murray, S., Hoppenrath, M., Preisfeld, A., Larsen, J., Yoshimatsu, S., Topriumi, S., and **Patterson, D. J.** 2006. Phylogenetics of *Rhinodinium broomeense* gen. et sp. nov., a peridinioid, sand-dwelling dinoflagellate (Dinophyceae). J. Phycol. 42, 934–942.
- Patterson, D. J.**, Remsen, D., Norton, C., Marino, W. 2006. Taxonomic Indexing—extending the role of Taxonomy. Systematic Biology, 55: 367-373.
- Remsen, D. P., Norton, C., and **Patterson, D. J.** 2006. Taxonomic informatics tools for the electronic *Nomenclator Zoologicus*. Biol. Bull. 210: 18-24.
- Murray, S., Flø Jorgensen, M., Ho, S. Y. W., **Patterson, D. J.** and Jermiin, L. S. 2005. Improving the analysis of dinoflagellate phylogeny based on rDNA. Protist 156: 269-286.
- Lee, W. J., Simpson, A. G. B., and **Patterson, D. J.** 2005. Free-living heterotrophic flagellates from freshwater sites in Tasmania (Australia), a field survey. Acta



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- Roland, S. Bahr, M. Olendzenski, L., and **Patterson, D. J.** 2005. Switch on micro\*scope. *The Science Teacher*, February 2005, 47-49.
- Murray, S. and **Patterson, D.J.** 2004. *Cabra matta* gen. nov., sp. nov., a new heterotrophic benthic dinoflagellate. *European Journal of Phycology*, 39: 229-234.
- Patterson D.J.**, Remsen D. & Norton C. 2003. Comment on Zoological Record and registration of new names in zoology. *Bulletin of Zoological Nomenclature*, 60: 297-299
- Schroeckh, S., Lee, W.J. & **Patterson, D.J.** 2003. Free-living heterotrophic euglenids from freshwater sites in mainland Australia. *Hydrobiologia*, 493: 131-166.
- Lee, W.J., Brandt, S.M., Vørs, N. & **Patterson, D.J.** 2003. Darwin's heterotrophic flagellates. *Ophelia* 57: 63-98.
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- Patterson, D. J.** 1977. On the behaviour of contractile vacuoles and associated structures of *Paramecium caudatum* (Ehrbg.). *Protistologica* **13**: 205-212.
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- Patterson, D. J.** 1973. Habituation in a protozoan, *Vorticella convallaria*. *Behaviour* **45**: 304-311.

## RESEARCH GRANTS (US):

### **ABI Development: Global Names Discovery, Indexing and Reconciliation Services**

Agency: NSF ABI. PIs David B. Mark Welch, Richard L. Pyle, David J. Patterson, Dmitry Mozzherin  
 Project period 8/1/2014 - 7/31/2016  
 Award Amount: \$785188

### **Collaborative Research: ABI:Innovation: The "Global Names Architecture," an innovative infrastructure for unifying nomenclatural and taxonomic databases and services for managers of biological information.**

Agency: NSF ABI. PI: D. J. Patterson (coPIs, Chris Freeland, MOBOT, Rich Pyle, Bishop Museum, Stan Blum, California Academy of Sciences)  
 Project period 3/1/2011 - 2/29/2013  
 Award Amount (MBL): \$1,165,459

### **Requirements for the development and maintenance of multicellular life**

Agency: NASA. PI: Roger Summons (MIT) Program: NAI, Patterson, co-PI  
 Project Period: 11/1/07 - 10/31/12  
 Award Amount (MBL): \$373, 207

### **The Data Conservancy (A Digital Research and Curation Virtual Organization)**

Agency NSF Program: OCI. Lead PI: Sayeed Choudhury (Johns Hopkins University), Patterson, co-PI  
 Project Period: 1/8/09 - 31/07/14  
 Award to MBL: \$2,737,499

**Encyclopedia of Life, Informatics component**

Agency: MacArthur / Sloan Foundations. PI: Cristian Samper (Smithsonian Institution), Patterson, Co-PI, Informatics lead  
Project Period: 1/1/07 - 12/31/11  
Total subaward to MBL: \$7,600,000

**Collaborative Research: Microbial Observatory in the Cariaco Basin – Dynamics of protistan diversity across time, space, and chemical gradients**

Agency: NSF Program: MCB/Microbial Observatories (MO) and Microbial Interactions and Processes (MIP) (S. Epstein, PI; subaward from Woods Hole Oceanographic Institution), Patterson, co-PI  
Project Period: 9/1/04 - 8/31/09  
Total subaward to MBL: \$127,183

**International Census of Marine Microbes**

Agency: Alfred P. Sloan Foundation (Lead PI M. Sogin)  
Project Period: 10/1/04 - 9/30/06  
Total Award Amount: \$900,000

**Microbial Life 2: Selection services targeting microbial evolution and specialized taxonomic content management**

Agency: NSF NSDL program. PI D. Patterson  
Project Period: 11/1/06-10/31/07  
Total Award Amount: \$74,902.

**NSDL: The Tree of Life Database: A Digital Library of Biodiversity Information**

Agency: NSF, DUE/NSDL Program (D. Maddison, PI)  
Project Period: 1/1/04 - 12/31/06  
Total subaward to MBL (Patterson): \$42,247

**AToL: Collaborative Research: Reconstructing Eukaryotic Phylogeny through Multigene Analyses of Microbial Eukaryotes**

Agency: NSF Assembling the Tree of Life program. (PI L. Katz), Patterson coPI  
Project Period: 10/1/04 - 9/30/09  
Total Award Amount: \$320,151

**Earth's Earliest Ecosystems in the Classroom: The Use of Microbial Mats to Illustrate and Demonstrate General Principles of Scientific Inquiry and Microbial Ecology**

Agency: NASA: Solar System Exploration Program  
Project Period: 4/1/04 - 3/31/07  
Subaward to MBL (Patterson): \$12,033

**Collaborative Project: Digital Educational Resources in Microbial Ecology, Evolution and Diversity (DERMEED 1)**

Agency: NSF Program: NSDL (co-PI D. Mogk)  
Project Period: 11/1/03 - 10/31/07  
Total Award Amount: \$559,956.

**From Early Biospheric Metabolisms to the Evolution of Complex Systems**

Program: NAI (Astrobiology Institute) Agency: NASA (Lead PI Mitchell Sogin,; coPIs L. Amaral Zettler, K. Edwards, R. Gast, J. Head, H. Morrison, J. Mustard, L. Olendzenski, M., D Patterson, Riley, S. Sievert, A. Teske, N. Wainwright and J. Wernegreen).  
Period: 11/1/03 - 10/31/08  
Total Award Amount: \$4,757,963

**7. SERVICES**

## University

Head of School, University of Sydney (two terms); innumerable committees etc., such as:

- 1993 - 2000: Board, Marine Studies Centre, University of Sydney
- 1995 - 2000: Deputy Director, Uniserve Science (A National Clearinghouse for Educational Software in Science)
- 1996 - 2000: Board of Directors, Sydney University Prince Alfred Hospital Macromolecular Analysis Centre (SUPAMAC)
- 1996 - 2000: Board Coral Reef Research Institute, University of Sydney

PhD Thesis Examinations, University of Bristol, University of Sydney, Brown University, University of Hamburg

## Service on National and International Committees

- 1980 - 1983: Committee member, British Section of the Society of Protozoologists
- 1983 - 1986: Secretary, British Section of the Society of Protozoologists
- 1983 - 2004: Member of the executive committee, Society of Protozoologists
- 1984 Founding editor: "Progress in Protistology"
- 1985 - 1987: President-elect and committee member, International Society for Evolutionary Protistology
- 1985: Advisor on course development, University of South Pacific, Fiji.
- 1986: Instructor: Scandinavian Special Course in Marine Biology "Marine protozoa, their Systematics, biology and ecology", University of Århus, Denmark. July 21 - August
- 1987 - 1990: President, International Society for Evolutionary Protistology
- 1987 - 1990: Council Member, The Systematics Association
- 1990: President-elect, British Section Society of Protozoologists
- 1992: Co-ordinator: Forskerakademiet Course: The Taxonomy of Ecology of Flagellates. Helsingør, Denmark.
- 1993 - 2000: Chairman, Society of Protozoology, Committee on Systematics and Evolution
- 1994 -2010: Member International Association for Plant Taxonomy Permanent Nomenclature Committee, Committee for Algae
- 1995 - present: Taxonomic advisor, Genbank (National Center for Biotechnology Information)
- 1996 - 1997 Member NSW Marine Algal Biotoxin Committee
- 1996 - 2004: Judging Panel, Eureka Prizes (of the Australian Museum)
- 1996 - present: Member, International Commission for Zoological Nomenclature
- 1996: Australian Museum Biodiversity and Conservation Centre, External Committee
- 1997: Introduced Australia-wide Eureka Prize for Schools
- 2006-2008: Steering Committee International Census of Marine Microbes
- 2007: Senior Taxonomist, Encyclopedia of Life
- 2009: Member, IUBS/IUMS International Committee of Bionomenclature
- 2009: Senior Advisor, Sloan Foundation
- 2012: ZooBank Steering Group
- 2012: Secretary, IUBS/IUMS International Committee of Bionomenclature
- 2012: International Union Biological Sciences, Executive committee
- 2013: International Botanical Congress Special Committee on Registration of Algal and Plant Names (including fossils)
- 2013: Executive committee, International Union of Biological Sciences
- 2014: IUBS representative, CODATA.

## Editorial Boards past and present

- Acta Protozoologica



- European Journal of Protistology
- Journal of Eukaryotic Microbiology
- Protist
- Marine Microbial Food Webs
- Founding editor: "Progress in Protistology"
- Organisms Diversity and Evolution

### Meetings organized / co-organized

- 1983: Co-organiser, with Dr. N. Lane "The biology of differentiated membranes", Society for Experimental Biology, Bristol, January 1983.
- 1984: Organiser, Annual Scientific and General Meeting, British Section of the Society of Protozoologists, University Bristol.
- 1985: Co-organiser (with D. Lynn) Symposium session, VII International Congress of Protozoology (Nairobi)
- 1987: Co-ordinating organizer, 7th. meeting of the International Society for Evolutionary Protistology (London)
- 1987: *Pattersoniella vitiphila*, Foissner, 1987
- 1988: Local Secretary, 41st meeting of the Society of Protozoologists, Bristol 1989  
Organizer, British Section Society of Protozoologists meeting, Cambridge
- 1990: Organizer, Systematics Association meeting: The Biology of Heterotrophic Flagellates
- 1992: Co-ordinator: Forskerakademiet Course: The Taxonomy of Ecology of Flagellates.
- 1997: Co-Secretary General, 10th International Congress of Protozoology, Sydney
- 2007: Co-ordinator, Nomina I, Crete
- 2008: Co-ordinator, Nomina II, Woods Hole
- 2009: Coordinator, Nomina IV, Woods Hole
- 2009: Coordinator, Nomina V, Woods Hole
- 2009: Organizing committee, eBiosphere09, 1st international conference on biodiversity informatics
- 2010: Co-ordinator, Nomina VII, TDWG, Woods Hole

### ACADEMIC HONORS

- 1976: Thomas Henry Huxley prize, Zoological Society of London
- 1987: *Pattersoniella vitiphila*, Foissner, 1987
- 1989: Scientific Medal, Zoological Society of London
- 1995: *Protoopalina pattersonii* Delvinquier, 1995
- 1995: Elected fellow, Australian Institute of Biology
- 2008: *Nuclearia pattersonii*, Nerad, Silberman, et al.,
- 2009: *Pseudovorticella pattersoni*, Sun, Ji, Warren and Song 2009
- 2014: *Stephanopogon pattersoni* Lee Miller and Simpson, 2014

### TEACHING

#### University of Bristol, 1977-1992

##### Undergraduate courses

- Cell Biology (initial course for first year students)
- Entomology (second year)
- Evolution (first year and third year)
- Protistology (third year)
- Marine invertebrate field courses (second year)
- Protozoology field courses (second year)
- Microbial ecology (second year)
- Electron microscopy (technical course)
- Photography (technical course)

**Extra mural teaching**

Microscopy for the blind

**Postgraduate supervision**

- David Booton (Ph. D.)
- Jane Newman (Ph. D.)
- Robin Smith (M.Sc.)
- Michael Zöllfel (MSc)

**Teaching, University of Sydney 1993-2004****Undergraduate teaching**

- Physiology (First year)
- Evolution (First year)
- Ecology (First year)
- Biology Today Faculty wide
- Evolution and Systematics (second year)
- Protozoan diversity (second year)
- Origins of Animals (second year)
- Evolution and Systematics (third year)
- Microalgae (third year)
- Biology Today: innovative web based introduction to biology

**Postgraduate training**

- Alastair Simpson (Ph. D.)
- Won Je Lee (Ph. D.)
- Meredith Peach (Ph. D.)
- Shauna Murray (Ph. D.)
- Sabrina Schroeckh – Germany (M. Sc.)
- Fleming Ekelund – Denmark (M. Sc.)
- Giselle Walker (Honours)
- Rhys Blackmore (Honours)
- Colin Johnson (Honours)
- Sarwat Al Qassab (M. Sc.)

**Postdoctoral associates**

- Naja Vørs
- Catherine Bernard
- Greg Rouse
- Sue Tong
- Nim Weerakoon

**Teaching, Arizona State University 2012****Undergraduate teaching**

- Bio 100