

## Curriculum Vitae

**Name** Professor Geoffrey Ian McFadden *PhD FAA*  
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**Academic Qualifications** 1980-1984 PhD, University of Melbourne,  
Supervisor - Dr. R. Wetherbee.  
1976-1979 BSc Hons (First Class Honours),  
University of Melbourne.

### Academic Appointments

2012-2007-11 Professor, School of BioSciences, University of Melbourne  
ARC Federation Fellow, Howard Hughes International Scholar  
School of Botany, University of Melbourne  
2002 -6 ARC Professorial Fellow, Howard Hughes International Scholar  
School of Botany, University of Melbourne  
1996 - 2001 Associate Professor & Reader, Howard Hughes International  
Scholar  
School of Botany, University of Melbourne  
1995 Guest Scientist, Inst. for Marine Biosciences, National Research  
Council  
Halifax, Canada  
1991-1994 ARC Senior Research Fellow  
School of Botany, University of Melbourne  
1990 Research Fellow, Grade 2 with Professor J. Pickett-Heaps,  
School of Botany, University of Melbourne  
1986-1989 ARC Queen Elizabeth II Fellow, with Professor A. Clarke,  
Plant Cell Biology Research Centre, University of Melbourne  
1984-1986 Post-Doctoral Fellow, Universität Münster, Germany.

### Current Affiliations

**Fellow** – Australian Academy of Sciences (2005-) [www.science.org.au/](http://www.science.org.au/)

**Convener** – Australia/Europe Malaria Research Cooperative (2009-) [www.ozemalar.org.au](http://www.ozemalar.org.au)

**Fellow** – Australian Society for Parasitology (2015-) [www.parasite.org.au](http://www.parasite.org.au)

**Fellow** – American Academy of Microbiology (2015-) [www.academy.asm.org](http://www.academy.asm.org)

### Scientific honours & prizes

1979 McBain Research Scholarship in Botany.  
1979/80 Selected to participate in two Australian National Antarctic Research Expeditions.  
1980-4 Commonwealth Postgraduate Research Award  
1983 Best Student Paper Award VIth Australian Society for Phycology & Aquatic Botany Meetings.  
1986 Queen Elizabeth II Research Fellowship Award  
1987 Travel grant for the "Outstanding Young Botanist", from the International Botanical Congress Committee,  
to attend the XIVth IBC in Berlin, Germany.  
1989 Best Poster Prize, Australian & New Zealand Society for Cell Biology Meetings (Melbourne).  
1990 Goldacre Medallist (Australian Plant Physiology Society's Award for Scientific Excellence)  
1991 Awarded Australian Research Council Senior Research Fellowship (5 years tenure)  
1998 Awarded Australian Academy of Science's Frederick White Prize  
1998 Elected Associate of Canadian Inst. of Advanced Research (CIAR) Programme in Evolutionary Biology  
2000 & 2005 Howard Hughes International Research Scholar  
2001 David Syme Research Prize (Best Australian Research by scientist beneath the rank of full Professor)  
2002 Australian Research Council Full Professorial Fellowship  
2002 Miescher-Ishida Prize, International Society of Endocytobiology  
2003 Woodward Medal (best paper of the year, Univ. of Melbourne)  
2005 Fellow – Australian Academy of Sciences  
2006 Julian Wells Medallist, Lorne Genome Conference

2009	The Royal Society of Victoria Research Medal for Scientific Research in Biological Sciences
2009	The Ramaciotti Medal for Excellence in Biomedical Research
2014	Fellow – Australian Society of Parasitology
2015	Fellow - American Academy of Microbiology

### Most important scientific positions of trust held

- President for International Society of Evolutionary Protistology (ISEP) 2005-2006
- Invited to make nominations to Nobel Foundation for Nobel Prize in Chemistry (2002-2010)
- Invited to make nominations to the International Prize for Biology (2006)
- Invited to make nominations for the Crafoord Prize in Biosciences 2015
- Chair of selection committee (Plant Sciences & Microbiology) for Australian Academy of Sciences (2007-2011)
- Convener of Australia/Europe Malaria Research Cooperative [www.ozemalar.org.au](http://www.ozemalar.org.au)

### Stewardship of the literature

- Editorial Board – Microorganisms (2013-)
- Editorial Board – Protist Genomics (2013-)
- Associate Editor – Marine Genomics (2009-2012)
- Associate Editor - Genomic Biology & Evolution (2009-)
- Editorial Board – Journal of Phycology (2012-14)
- Editorial Board - Biology Image Library, BioMed Central (2005-)
- Editorial Board - European Journal Phycology (2000-2010)
- Associate Editor - Molecular Biology & Evolution (1999-2008)
- Editorial Board - Today's Life Sciences (1998-2003)

### Postgraduate students supervised and current status

I am particularly proud that the postgraduates and postdocs from my team have gone on to become strong, independent researchers now leading their own teams and labs at prestigious national research institutions including WEHI, Burnet Institute, Royal Botanic Gardens Melbourne, Bio21 Institute, Univ. of Melbourne, ANU, plus renowned international institutions including Nanyang University, University of British Columbia, Université de Limoges, University of Otago, Pasteur Institute, Sanger Institute, Cambridge University and Merck Pty Ltd. I have supervised 21 PhD students and 17 postdoctoral fellows.

### Grants received

I secured my salary from the ARC from 1986 to 2011. I have had three consecutive, 5 year Program Grants from the NHMRC plus continuous funding from the ARC since 1986. I have raised a career total of \$39 million dollars in externally funded grants.

### Publications and impact

I have authored eight papers in *Nature*, four papers in *Science*, ten papers in *PNAS*, six papers in *Curr Biol*, and three papers in *EMBO J*. I have published 221 papers. My publications have been cited 16,615 times by other authors (Google Scholar), and I have 42 papers with more than 100 citations including five with >400, and a genome paper with >3,500 citations. My papers average 76 citations each over my career, and my *h*-index is 65. My papers have been featured as the journal cover illustration 21 times.

### Recent key papers

- Curtis, B.A., et al, McFadden, G.I., Lane, C.E., Keeling, P.J., Gray, M.W., Grigoriev, I.V., and Archibald, J.M., (2012) Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. *Nature*. **492**: 59-65
- Gornik, S.G., Ford, K.L., Mulhern, T.D., Bacic, A., McFadden, G.I., and Waller, R.F., (2012) Loss of nucleosomal DNA condensation coincides with appearance of a novel nuclear protein in dinoflagellates. *Curr Biol*. **22**: 1-10
- Botté, C., Yamaro-Botté, Y., Rupasinghe, T., Mullin, K.A., MacRae, J., Spurck, T., Kalanon, M., Shears, M., Coppel, R., Crellin, P., Maréchal, E., McConville, M., and McFadden, G., (2013) Atypical lipid composition in the purified relict plastid (apicoplast) of malaria parasites. *Proc Natl Acad Sci USA*. **110**: 7506-7511
- McFadden, G.I., (2014) Apicoplast. *Curr Biol*. **24**: R262
- Gornik, S.G., Marsa, F., Cassin, A.M., MacRae, J., McConville, M.J., Bacic, A., McFadden, G.I., Pain, A., and Waller, R.F., (2015) Endosymbiosis undone: stepwise elimination of the plastid in the dinoflagellate *Hematodinium*. *Proc Natl Acad Sci U S A*. **112**: 5767-5772
- Sturm, A., Mollard, V., Cozijnsen, A., Goodman, C.D., and McFadden, G.I., (2015) Mitochondrial ATP synthase is dispensable in blood stage *Plasmodium berghei* rodent malaria but essential in the mosquito phase for ookinete viability. *Proc Natl Acad Sci U S A*. **112**: 10216-10223
- Goodman, C.D., Siregar, J., Mollard, V., Vega-Rodriguez, J., Syafruddin, D., Matsuoka, H., Matsuzaki, M., Toyama, T., Sturm, A., Cozijnsen, A., Jacobs-Lorena, M., Kita, K., Marszuki, S., and McFadden, G.I., (2016) Parasites resistant to the anti-malarial atovaquone fail to transmit by mosquitoes. *Science*. **352**: 349-353