***Curriculum Vitae***

James Gordon Mitchell

**Citizenships** United States of America and Australia

**Address** Biological Sciences, Flinders University, GPO 2100, Adelaide 5001

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**Education**

 Ph.D. Coastal Oceanography, 1988, Stony Brook University

 Advisors: Professors Akira Okubo (deceased) and Jed Fuhrman

 M.S. Marine Sciences, 1982, University of California, Santa Cruz

 Advisor: Professor Mary Silver (emeritus)

 B.A. Biology, 1980, University of California, Santa Cruz

**Employment** Executive Director, Marine Sciences at Flinders University, 2015 – 2022

 Director, Marine Sciences at Flinders University, 2013 – 2015

 Professor, Flinders University, 2012 – present

 Head of Biological Sciences, Flinders University 2007 – 2010

 Associate Professor, Flinders University, 2005 – 2012

 Deputy Head of Biological Sciences, Flinders University, 2005 – 2006

 Senior Lecturer, Flinders University, 2004 – 2005

 Associate Professor, University of Tokyo, 2003 – 2004 (tenured)

 Senior Lecturer, Flinders University, 1997 – 2003

 Lecturer, Flinders University, 1992 – 1996

 Julian Huxley Research Instructor, Rice University, 1991 – 1992

 NSF Post-Doctoral Fellow, Michigan State University, 1990 – 1991

 Post-Doctoral Fellow, University of Barcelona, 1989

 Intra-EU posting for *Institut Pasteur* and Total Energies

 Post-Doctoral Fellow, Autonomous University of Barcelona, 1988

 Intra-EU posting at Oxford University

 NASA Planetary Biology Fellowship, 1987

 Graduate Research Assistant, State University of New York, Stony Brook, 1982 – 1987

 Graduate Research Assistant, University of California, Santa Cruz, 1980 – 1982

 Research Assistant, International Weddell Sea Oceanographic Expeditions, UCSD-SIO,

 UCSC 1977 – 1980

 Research Assistant, National Institutes of Health, Bethesda campus, 1977

**Recognition** Chair National Environmental Science Program Marine and Coastal Hub, Southern Region

 Research Group 2021 – 2022

 Chair National Environmental Science Program Marine and Coastal Hub, Southern Region

 Users Group 2021 – 2022

 Chair Marine Innovation South Australia, 2021 – 2022

 ARC Centres of Excellence Review Committee, 2014 – 2017

 ARC Centres of Excellence Selection Committee, 2015 – 2016

Marine Innovation South Australia, Chair, 2014 – 2016

 ARC College: Chair of Biological Sciences and Biotechnology, 2014

 ARC Centres of Excellence: senior site visit and review scientist, 2014

Harvard University, Visiting Professor, Soft Matter Condensed Physics Group,

 Department of Molecular and Cellular Biology, 2014

 Australian Office of Learning and Teaching Citation, 2013

 Outstanding PhD supervision: 79 of 79 post-BSc completions, 85% relevant employment

Aspen Center for Physics: Biophysics participant May – June 2013

BP Great Australian Bight Science Plan – National Management Committee, 2013 – 2014

ARC College: Biological Sciences and Biotechnology, 2012 – 2014 (2014 Chair)

 Editorial Board, *Advances in Microbiology*, 2012 – 2021

 Pennsylvania State University, visiting professor, Environmental Engineering 2012

University California San Diego, visiting professor in Bioengineering, and Mechanical and

 Aeronautical Engineering, 2011

 International Council of Science Editors, 2011 – 2015

 Gordon Research Conference organizer, Marine Microbiology 2008 – 2012

 Anton Dohrn Zoological Station Annual Darwin Lecture, November 2008

 Marine Innovation South Australia (peak SA marine committee) member, 2007 – present

 Editorial Board, *FEMS Microbiology Ecology*, 2000 – 2020

 U.S. National Science Foundation Nanogeosciences panel member 2001

 Australian Acad. Sci. /Japan Soc. Promotion of Sci. Fellowship, 2000 – 2001

 The University of British Columbia, visiting Assoc. Prof., Earth & Ocean Sci., 1997

 U.S. Sea Grant Scholar, 1986

 Stony Brook University, Jesse Smith-Noyes Graduate Fellowship, 1983 – 1984

 The University of California President's Undergraduate Fellowship, 1979 – 1980

 U.S. Armed Forces Antarctica Service Medal, 1978 (for “courage, sacrifice and devotion”)

 U.S. National Institutes of Health Research Commendation for endorphin & beta-blocker

 research, 1977

**Language** Spanish (microbiology lecturer, University of Barcelona 1988 and 1989)

**PUBLICATIONS**

Total 156: **2 each in** ***Nature* (first authorships)**, ***Science*** & ***PNAS***

H-index 45, i10-index 111, total citations 7029 as of 23/2/23

Erdős numbers = 4 & 5 (Filar, Pardalos, Graham; 5 twice: Golomb, Weinberger, Shigesada, Okubo; Palka, Cohen, Iwasa, Andreasen)

*(This citation record is public, search James G Mitchell at Google Scholar, or follow the link:*

*<https://scholar.google.com.au/citations?user=ZJVfdv8AAAAJ&hl=en&oi=ao>*

1. McKerral JC, Kleshnina M, Ejov V, Bartle L, Mitchell JG, Filar JA (2023) Empirical parameterisation and dynamical analysis of the allometric Rosenzweig-MacArthur equations. *PLoS ONE* 18(2): e0279838. <https://doi.org/10.1371/> journal.pone.0279838
2. Kleshnina M, McKerral JC, González-Tokman C, Filar JA, Mitchell JG (2022) Shifts in evolutionary balance of phenotypes under environmental changes. *Royal Society Open Science* 9 (11), 220744
3. Grigson, SR, McKerral JC, Mitchell JG, Edwards RA (2022) Organizing the bacterial annotation space with amino acid sequence embeddings. *BMC Bioinformatics* 23:385, <https://doi.org/10.1186/s12859-022-04930-5>.
4. Takeuchi M, Doubell M, Jackson G, Mitchell JG, Yamazaki H (2022) Turbulence controls size distribution of aggregates: in-situ observations by a microstructure profiler. *Authorea Preprints*
5. Paterson JS, Dann LM, Carlson-Jones J, Giles S, McIvor C, Speck PG, Mitchell JG (2022) OligoFlow: rapid and sensitive virus quantification using flow cytometry and oligonucleotide hybridization. *bioRxiv*, 2022.06. 23.49742.
6. McKerral JC, Seymour JR, Lavery TJ, Rogers PJ, Jeffries TC, Paterson JS, Roudnew B, Huveneers C, Newton K, van Dongen-Vogels V, Cribb NP, Winn KM, Smith RJ, Beckmann CL, Prime E, Charlton CM, Kleshnina M, Grigson SR, Takeuchi M, Seuront L, Mitchell JG (2021) Synergetic impacts of turbulence and fishing reduce ocean biomass. bioRxiv preprint <https://doi.org/10.1101/2021.10.04.459351>
7. McKerral J, Kleshnina M, Bartle L, Mitchell JG, Filar JA (2021) Universal Allometry from Universal Parameters. bioRxiv preprint doi: https://doi.org/10.1101/2021.05.20.444891.
8. Speck PG, Warner MS, Bihari S, Bersten AD, Mitchell JG, Tucci J, Gordon DL (2021) Potential for bacteriophage therapy for *Staphylococcus aureus* pneumonia with influenza A coinfection. ***Future Medicine*** 16: <https://doi.org/10.2217/fmb-2020-0163>.
9. Bartle L, Peltier E, Sundstrom J, Sumby K, Mitchell JG, Jiranek V, Marullo P (2021) QTL mapping: an innovative method for investigating the genetic determinism of yeast-bacteria interactions in wine. ***Applied Microbiology and Biotechnology*** https://doi.org/10.1007/s00253-021-11376-x.
10. Kleshnina M, McKerral JC, Gonzalez-Tokman C, Filar JA, Mitchell JG (2021) Shifts in evolutionary balance of microbial phenotypes under environmental changes. BioRxiv doi.org/10.1101/2020.03.23.003343.
11. Bartle L, Mitchell JG, Paterson JS (2020) Evaluating the Cytometric Detection and Enumeration of the Wine Bacterium, *Oenococcus oeni*. ***Cytometry Part A***: DOI: 10.1002/cyto.a.24258.
12. Hisee AR, Hisee M, McKerral JC, Rosenbauer SR, Paterson JS, Mitchell JG, Fallowfield HJ (2020) Changes of viral and prokaryote abundances in a HRAP using flow cytometry detection. ***Water Science and Technology*** 82 (6):1062–1069.
13. Wang C, Wang Y, Liu P, Wu L, Paterson JS, Mitchell JG, Revill AT, Hu X (2020) The Yellow Sea Warm Current flushes the Bohai Sea microbial community in winter. ***Marine and Freshwater Research***, doi.org/10.1071/MF19399.
14. Wang C, Wu L, Wang Y, Paterson JS, Mitchell JG, Hu X (2020) Coupling virio-and bacterioplankton populations with environmental variable changes in the Bohai Sea. ***Acta Oceanologica Sinica*** 39 (6):72-83.
15. Kifelew LG, Warner MS, Morales S, Thomas N, Gordon DL, Mitchell JG, Speck PG (2020) Efficacy of Lytic Phage Cocktails on *Staphylococcus aureus* and *Pseudomonas aeruginosa* in Mixed-Species Planktonic Cultures and Biofilms. ***Viruses*** 12(5): 559; <https://doi.org/10.3390/v12050559>.
16. Carlson-Jones JAP, Kontos A, Kennedy D, Martin J, Lushington K, McKerral J, Paterson JS, Smith RJ, Dann LM, Speck PG, Mitchell JG (2020) The microbial abundance dynamics of the paediatric oral cavity before and after sleep. ***Journal of Oral Microbiology*** 12:1 DOI:10.1080/20002297.2020.1741254.
17. Paterson JS, Smith RJ, McKerral J, Dann L, Launer E, Goonan P, Kleinig T, Fuhrman JA, Mitchell JG (2019) A hydrocarbon contaminated aquifer reveals a Piggyback-the-Persistent viral strategy. ***FEMS Microbiology Ecology***, 95 2019:fiz116.
18. Dann LM, Clanahan M, Paterson JS, Mitchell JG (2019) Distinct niche partitioning of marine and freshwater microbes during colonisation. ***FEMS Microbiology Ecology*** 95(8):fiz098.
19. Kifelew LG, Mitchell JG, Speck P (2019) Efficacy of lytic bacteriophages on multispecies biofilms. ***Biofouling*** 35:472. <https://doi.org/10.1080/08927014.2019.1613525>.
20. Newton K, Jeffries TC, Smith RJ, Seymour JR, Seuront L, Mitchell JG (2018) Taxonomic and metabolic shifts in the Coorong bacteria metagenome driven by salinity and external inputs. ***Journal of Oceanology and Limnology*** https://doi.org/10.1007/s00343-018-7387-z.
21. Wang Y, Wang B, Dann LM, Mitchell JG, Hu X, Tang H, Zhang H, Sheng Y (2018) Bacterial community structure in the Bohai Strait provides insights into organic matter niche partitioning. ***Continental Shelf Research*** https://doi.org/10.1016/j.csr.2018.08.009.
22. Smith RJ, Paterson JS, Wallis I, Launer E, Banks EW, Bresciani E, Cranswick RH, Tobe SS, Shashikanth M, Goonan P, Mitchell JG (2018) Southern South Australian groundwater microbe diversity. ***FEMS Microbiology Ecology*** 94(10): https://doi.org/10.1093/femsec/fiy158.
23. Dann LM, McKerral JC, Smith RJ, Tobe SS, Paterson JS, Seymour JR, Oliver RL, Mitchell JG (2018) Microbial micropatches within microbial hotspots. ***PLoS ONE*** 13(5): e0197224. https://doi.org/10.1371/journal.pone.0197224.
24. Speck P, Mitchell JG (2017) Faecal microbiota transplantation donor stools need screening for poliovirus. ***Gut*** 13: doi: 10.1136/gutjnl-2017-314356.
25. Mitchell JG (2017) Whence is the diversity of diatom frustules derived? Diatom Nanotechnology: Progress and Emerging Applications. Royal Society of Chemistry, London, pp 270.
26. Smith-Harding TJ, Beardall J, Mitchell JG (2017) The role of external carbonic anhydrase in photosynthesis during growth of the marine diatom *Chaetoceros muelleri*. ***Journal of Phycology*** published online 3/8/17 DOI:10.1111/jpy.12572.
27. Michael Ben-Yosef M, Zaada DSY, Dudaniec RY, Pasternak Z, Jurkevitch E, Smith RJ, Causton CE, Lincango MP, Tobe SS, Mitchell JG, Kleindorfer S, Yuval B (2017) Host-specific associations affect the microbiome of Philornis downsi, an introduced parasite to the Galápagos Islands. ***Molecular Ecology*** published online 2/8/17 DOI:10.1111/mec.14219.
28. Dann LM, Smith RJ, Jeffries TC, McKerral JC, Fairweather PG, Oliver RL, Mitchell JG (2017) Persistence, loss and appearance of bacteria upstream and downstream of a river system. ***Marine and Freshwater Research*** 68 (5):851-862.
29. Herringer JW, Dorrington GE, Rosengarten G, Lester D, Mitchell JG (2016) Hydrodynamic Drift Ratchet Scalability. ***AiChE***: doi:10.1002/aic.15569.
30. Smith RJ, Paterson JS, Launer E, Tobe SS, Morello E, Leijs R, Marri S, Mitchell JG (2016) Stygofauna enhance prokaryotic transport in groundwater ecosystems. ***Scientific Reports*** 6: 32738, doi:10.1038/srep32738.
31. Dann LM, Smith RJ, Tobe SS, Paterson JS, Oliver RL, Mitchell JG (2016) Microscale distributions of freshwater planktonic viruses and prokaryotes are patchy and taxonomically distinct. ***Aquatic Microbial Ecology*** 77 (2):65-77.
32. Dann LM, Rosales S, McKerral J, Paterson JS, Smith RJ, Jeffries TC, Oliver RL, Mitchell JG (2016) Marine and giant viruses as indicators of a marine microbial community in a riverine system. ***Microbiology Open*** published online 9 August 2016, DOI: 10.1002/mbo3.392.
33. Carlson-Jones JAP, Paterson JS, Newton K, Smith RJ, Dann LM, Speck P, Mitchell JG, Wormald P-J (2016) Enumerating Virus-Like Particles and Bacterial Populations in the Sinuses of Chronic Rhinosinusitis Patients Using Flow Cytometry. ***PLoS ONE*** 11(5): e0155003. doi:10.1371/journal.pone.0155003.
34. Wang C, Wang Y, Paterson JS, Mitchell JG, Hu X, Zhang H, Sheng Y (2016) Macroscale distribution of virioplankton and heterotrophic bacteria in the Bohai Sea. ***FEMS Microbiology Ecology*** 92(3):1-10.
35. Paterson JS, Ogden S, Smith RJ, Delpin MW, Mitchell JG, Quinton JS (2016) Surface modification of an organic hessian substrate leads to shifts in bacterial biofilm community composition and abundance. ***Journal of Biotechnology*** 219:90-97.
36. Dann L, Paterson JS, Newton K, Oliver R, Mitchell JG (2016) Distributions of virus-like particles and prokaryotes within microenvironments. ***PLoS ONE.*** 11(1): e0146984. doi:10.1371/journal. pone.0146984.
37. Smriga S, Fernandez V, Mitchell JG, Stocker R. (2016) Chemotaxis toward phytoplankton drives organic matter partitioning among marine bacteria. ***Proceedings of the National Academy of Sciences USA*** 113(6):1576-1581.
38. Leijs R, Bradford T, Mitchell JG, Humphreys WF, Cooper SJB, Goonan P andKing RA(2015) The evolution of epigean and stygobitic species of *Koonunga* (Syncarida: Anaspidaceae) in Southern Australia, with the description of three new species. ***PLoS ONE*** 10(8): e0134673. doi:10.1371/journal.pone.0134673.
39. Smith RJ, Paterson JS, Sibley CA, Hutson JL, Mitchell JG (2015) Putative effect of aquifer recharge on the abundance and taxonomic composition of endemic microbial communities. ***PLoS ONE*** 10(6): e0129004. doi:10.1371/journal. pone.0129004.
40. Leterme SC, Allais L, Jendyk J, Hemraj DA, Newton K, Mitchell J, Shanafield M (2015) Drought conditions and recovery in the Coorong wetland, South Australia in 1997 – 2013. ***Estuarine, Coastal and Shelf Science*** 163 (2015) 175e184.
41. Rogers PJ, Huveneers C, Page B, Goldsworthy SD, Coyne M, Lowther AD, Mitchell JG, Seuront L (2015) Living on the continental shelf edge: habitat use of juvenile shortfin makos *Isurus oxyrinchus* in the Great Australian Bight, southern Australia. ***Fisheries Oceanography*** 24 (3): 205 – 218.
42. Lavery TJ, Roudnew B, Mitchell JG (2015) Nitrogen transport from sea to land by a threatened and declining population of Australian sea lions (*Neophoca cinerea*) on Kangaroo Island, South Australia. ***Australian Mammalogy*** 37 (1): 92-96.
43. Dann LM, Mitchell JG, Speck PG, Newton K, Jeffries TC, Paterson J (2014) Virio- and Bacterioplankton Microscale Distributions at the Sediment-Water Interface. ***PLoS ONE*** 9 (7): e102805 DOI:10.1371/journal.pone.0102805.
44. Beckmann CL, Mitchell JG, Seuront L, Stone DAJ, Huveneers C (2014) From egg to hatchling: preferential retention of fatty acid biomarkers in young-of-the-year Port Jackson sharks *Heterodontus portusjacksoni*. ***The Journal of Fish Biology*** 85 (3): 944-952 DOI:10.1111/jfb.12451.
45. Lavery TJ, Roudnew B, Seymour J, Mitchell JG, Smetacek V, Nicol S (2014) Whales sustain fisheries: Blue whales stimulate primary production in the Southern Ocean. ***Marine Mammal Science*** 30(3): 888-904.
46. Beckmann CL, Mitchell JG, Stone DAJ, Huveneers C (2014) Inter-tissue differences in fatty acid incorporation as a result of dietary oil manipulation in Port Jackson sharks (*Heterodontus portusjacksoni*) ***Lipids*** 49 (6): 577-590, DOI 10.1007/s11745-014-3887-6.
47. Patil SS, Adetutu EM, Rochow J, Mitchell JG, Ball AS (2014) Sustainable remediation: electrochemically assisted microbial dechlorination of tetrachloroethene-contaminated groundwater. ***Microbial Biotechnology*** 7 (1):54-63, DOI: 10.1111/1751-7915.12089.
48. Roudnew B, Lavery TJ, Seymour JR, Jeffries TC, Mitchell JG (2014) Variability in bacteria and virus-like particle abundances during purging of unconfined aquifers. ***Groundwater*** 52 (1):118-124.
49. Smith RJ, Jeffries TC, Adetutu EM, Fairweather PG, Mitchell JG (2013) Determining the Metabolic Footprints of Hydrocarbon Degradation Using Multivariate Analysis. ***PLoS ONE*** 8(11):e81910 DOI: 10.1371/ journal.pone.0081910.
50. Winn KW, Bourne DG, Mitchell JG (2013) *Vibrio coralliilyticus* search patterns across an oxygen gradient. ***PLoS ONE*** 8(7): e67975.
51. Beckmann CL, Mitchell JG, Stone DAJ, Huveneers C (2013) A controlled feeding experiment investigating the effects of a dietary switch on muscle and liver fatty acid profiles in Port Jackson sharks *Heterodontus portusjacksoni*. ***Journal of Experimental Marine Biology and Ecology*** 448:10-18.
52. Smith R, Roudnew B, Mitchell JG (2013) Confined aquifers as viral reservoirs. ***Environmental Microbiology Reports*** 5:725-730.
53. Mitchell JG, Seuront L, Doubell MJ, Losic D, Voelcker NH, Seymour JR, Lal R (2013) The role of diatom nanostructures in biasing diffusion to improve uptake in a patchy nutrient environment. ***PLoS ONE*** 8(5):e59548.
54. Beckmann CL, Mitchell JG, Seuront L, Stone DAJ, Huveneers C (2013) Experimental Evaluation of fatty acid profiles as a technique to determine dietary composition in benthic elasmobranchs. ***Physiological and Biochemical Zoology*** 86 (2): 266-278.
55. Adetutu EM, Smith RJ, Weber J, Aleer S, Mitchell JG, Ball AS, Juhasz AL (2013) A polyphasic approach for assessing the suitability of bioremediation for the treatment of hydrocarbon-impacted soil. ***Science of the Total Environment*** 450:51-58.
56. Roudnew B, Lavery TJ, Seymour JR, Smith RJ, Mitchell JG (2013) Spatially varying complexity of bacterial and virus-like particle communities within an aquifer system. ***Aquatic Microbial Ecology*** 68:259-266.
57. Paterson JS, Nayar S, Mitchell JG, Seuront L (2013) Population-specific shifts in viral and microbial abundance within a cryptic upwelling. ***Journal of Marine Systems*** 113-114:52-61.
58. Rogers PJ, Huveneers C, Goldsworthy SD, Cheung WWL, Jones GK, Mitchell JG, Seuront L (2013) Population metrics and movement of two sympatric carcharhinids: a comparison of the vulnerability of pelagic sharks of the southern Australian gulfs and shelves. ***Marine and Freshwater Research*** 64:1-11.
59. Leterme SC, Prime EA, Mitchell J, Brown MH, Ellis AV (2013) The adaptability of diatoms to environmental changes: a case study on two *Cocconeis* species from hypersaline areas. ***Diatom Research*** 28:29-35. DOI:10.1080/ 0269249 X.2012.734530
60. Rogers PJ, Huveneers C, Page B, Hamer DJ, Goldsworthy SD, Mitchell JG, Seuront L (2013) Broad-scale movements and pelagic habitat of large juvenile dusky sharks off southern Australia determined using pop-up satellite archival tags. ***Fisheries Oceanography*** 22 (2):102-112doi:10.1111/fog.12009.
61. van Dongen-Vogels V, Seymour JR, Middleton JF, Mitchell JG, Seuront L (2012) Shifts in picophytoplankton community structure influenced by changing upwelling conditions. ***Estuarine, Coastal and Shelf Science*** 109:81-90.
62. Rogers PJ, Huveneers C, Page B, Hamer DJ, Goldsworthy SD, Mitchell JG, Seuront L (2012) A quantitative comparison of the diets of sympatric pelagic sharks in gulf and shelf ecosystems off southern Australia. ***ICES Journal of Marine Science: Journal du Conseil*** 69(8):1382 – 1393.
63. Humphreys, W., Tetu, S., Elbourne, L., Gillings, M., Seymour, J., Mitchell, J. and Paulsen, I. (2012) Geochemical and microbial diversity of Bundera Sinkhole, an anchialine system in the eastern Indian Ocean. ***Natura Croatica*** 21 (Supplement 1):59-63.
64. Lavery TJ, Roudnew B, Seuront L, Mitchell JG, Middleton J (2012) Can whales mix the ocean? ***Biogeosciences Discuss*** 9: 8387-8403.
65. Seymour JR, Doblin MA, Jeffries TC, Brown MV, Newton K, Ralph PJ, Baird M, Mitchell JG (2012) Contrasting microbial assemblages in adjacent water masses associated with the East Australian Current. ***Environmental Microbiology Reports*** 4:548-555.
66. Lavery TJ, Roudnew B, Seymour JR, Mitchell JG, Jeffries TC, (2012) High Nutrient Transport and Cycling Potential Revealed in the Microbial Metagenome of Australian Sea Lion (*Neophoca cinerea*) Faeces. ***PLoS ONE*** 7(5):e365478, doi:10.1371/journal.pone.0036478.
67. Roudnew B, Seymour JR, Jeffries TC, Lavery TJ, Smith RJ, Mitchell JG (2012) Bacterial and virus-like particle abundances in purged and unpurged groundwater depth profiles. ***Groundwater Monitoring and Remediation*** DOI:10.1111/j.1745-6592.2011.0193.x.
68. Paterson JS, Nayar S, Mitchell JG, Seuront L (2012) A local upwelling controls viral and microbial community structure in South Australian continental shelf waters. ***Estuarine, Coastal and Shelf Science*** 96:197-208.
69. Smith RJ, Jeffries TC, Roudnew B, Fitch AJ, Seymour JR, Delpin MW,Newton K, Brown M, Mitchell JG (2012) Metagenomic comparison of microbial communities inhabiting confined and unconfined aquifer ecosystems.***Environmental Microbiology*** 14:240-253.
70. Jeffries TC, Seymour J, Newton K, Seuront L, Mitchell JG (2012) Shifts in microbial metagenome potential along a sediment salinity gradient. ***Biogeosciences***, 8:7551-7574*.*
71. van Dongen-Vogels V, Seymour JR, Middleton JF, Mitchell JG, Seuront L (2011) Influence of local physical events on picophytoplankton spatial and temporal dynamics in South Australian continental shelf waters. ***Journal of Plankton Research*** 33:1825-1841.
72. Jeffries TC, Seymour JR, Gilbert JA, Dinsdale EA, Newton K, Leterme SC, Roudnew B, Smith RJ, Seuront L. Mitchell JG (2011) Substrate type determines metagenomic profiles from diverse chemical habitats. ***PLoS ONE*** 6(9): e25173. Doi:10.1371/journal.pone0025173.
73. Jeffries TC, Seymour JR, Newton K, Smith RJ, Seuront L, Mitchell JG (2011) Increases in the abundance of microbial genes encoding halotolerance and photosynthesis along a sediment salinity gradient. ***Biogeosciences Discussions*** 8 (4): 7551-7574.
74. Marcos M, Seymour JR, Luhar M, Durham WM, Mitchell JG, Macke A, Stocker R (2011) Microbial alignment in flow changes ocean light climate. ***Proceedings of the National Academy of Sciences******USA***108:3860-3864, doi:10.1073/pnas.
75. Pollet T, Schapira M, Buscot M-J, Leterme SC, Mitchell JG, Seuront L (2010) Prokaryotic aminopeptidase activity along a continuous salinity gradient in a hypersaline coastal lagoon (the Coorong, South Australia). ***Saline Systems*** 6:1-6.
76. Lavery TL, Roudnew B, Gill P, Seymour J, Seuront L, Johnson G, Mitchell JG, Smetacek V (2010) Iron defecation by sperm whales stimulates carbon export in the Southern Ocean. ***Proceedings of the Royal Society of London******B: Biological Sciences***277:3527-3531,doi:10.1098.
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79. Leijs R, Roudnew B, Mitchell J, Humphreys WF (2009) A new method for sampling stygofauna from groundwater fed marshlands. ***Speleobiology Notes*** 1:12-13.
80. Kleindorfer SM, Mitchell JG (2009) ‘Biological Networks: Rainforests, Coral Reefs, and the Galapagos Islands’, in PR Kleindorfer, Y Wind and RE Gunther (eds), ***The Network Strategy: Strategy, Profit, and the Risk in an Interlinked World***, Wharton School Publishing, New Jersey, pp 85-99.
81. Schapira M, Pollet T, Mitchell JG, Seuront L (2009) Respiration rates in marine heterotrophic bacteria relate to the cytometric characteristics of bacterioplankton communities**. *Journal of the Marine Biological Association of the United Kingdom*** 89(6):1161-1169.
82. Losic D, Mitchell JG, Voelcker NH (2009) Diatomaceous Lessons in Nanotechnology and Advanced Materials. ***Advanced Materials***(cover) 21(29):2947-2958.
83. Lavery TJ, Kemper CM, Sanderson K, Schultz CG, Coyle P, Mitchell JG, Seuront L (2009) Heavy metal toxicity of kidney and bone tissues in South Australian adult bottlenose dolphins (*Tursiops aduncus*). ***Marine Environmental Research*** 67:1-7.
84. Seymour JR, Seuront L, Doubell M, Mitchell JG. (2008) Mesoscale and microscale spatial variability of bacteria and viruses during a *Phaeocystis globosa* bloom in the Eastern English Channel.***Estuarine Coastal and Shelf Science*** 80(4):589-597.
85. Losic D, Mitchell JG, & Voelcker NH, (2008) Diatom culture media contain extracellular silica nanoparticles which form opalescent films. **Proceedings of SPIE**, 7267, 726712-1-726712-8.
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87. Patten NL, Harrison PL, Mitchell JG (2008) Prevalence of virus-like particles within a staghorn coral (*Acropora muracata*) from the Great Barrier Reef. ***Coral Reefs*** 27:569-580. DOI 10.1007/s00338-008-0356-9
88. Patten NL, Mitchell JG, Middleboe M, Eyre BD, Seuront L, Harrison PL, Glud RN (2008) Bacterial and viral dynamics during a mass coral spawning period on the Great Barrier Reef. ***Aquatic Microbial Ecology*** 50:209-220.
89. Seuront L, Mitchell JG (2008) Towards a seascape typology. I. Zipf vs Pareto laws. ***Journal of Marine Systems***69:310-327.
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92. Tajuddin I, Voelcker NH, Mitchell JG (2007) Silica nanostructure formation from synthetic R5 peptide. **Proceedings of SPIE**, 6413, 64130Q-1-64130Q-10.
93. Losic D, Mitchell JG, Lal R, Voelcker NH (2007) Rapid fabrication of micro- and nanoscale patterns by replica molding from diatom biosilica. ***Advanced Functional Materials*** 17:2439-2446.
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**Competitive Research Grants**

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Title of project; co-investigators** **\*first chief investigator** | **Dates** | **AUD$** |
| NH&MRC | Bacteriophages: a new paradigm in caring for infected wounds with Peter Speck *et al*.  | 2023-2024 | 736,657 |
| ARC Discovery | Quantitative metagenomics, with Rob Edwards | 2022-2024 | 657,000 |
| The Hospital Research Foundation | Paediatric Cystic Fibrosis infection identification in under 24 hours | 2022 | 65,000 |
| SA Water | \*Virus detection in wastewater | 2021-2022 | 20,000 |
| SA EPA | \*Metrics for groundwater health | 2021-2022 | 20,000 |
| Flinders University | \*Seed money for ARC linkage grant | 2021 | 20,000 |
| Flinders University | Near miss funding for NH&MRC grant | 2021 | 20,000 |
| Adelaide University & WACH | \*Cystic fibrosis microbial communities | 2020 | 19,500 |
| Flinders University | \*Improved SARS-COV-2 detection | 2020 | 27,000 |
| SA Water | \*TCE degradation in Microbial Fuel Cells | 2019-2021 | 20,000 |
| SA EPA | \*Microbial Electrolysis Cells for PFAS  | 2019-2021 | 60,000 |
| BiomeBank |  PhD Scholarship: gut microbiome nutrient cycles | 2019-2021 | 51,000 |
| Flinders University | Near Miss ARC Discovery funds | 2019-2020 | 25,000 |
| FRDC CRC-P | \*Developing techniques for monitoring oyster viruses: sole investigator | 2017-2019 | 350,000 |
| ARC LIEF | Adelaide GSEx Flow Cytometry Facility: Robertson *et al.* | 2017 | 480,000 |
| DFAT | \*Blue Environment Sensing, Output and Processing in Shandong Province: Mitchell sole investigator | 2016-2020 | 378,000 |
| Flinders University | \*Seed money for ARC linkage grants | 2017 | 25,000 |
| ARC Discovery | \*The role of the single-cell environment in microbial invasion: Mitchell sole investigator | 2015-2017 | 403,000 |
| ARC-Linkageindustry | Subterranean invertebrate communities of arid zone Western Australia: diversity, assessment and food-web dynamics: Austin, Cooper, Humphreys, Blyth, Mitchell, Munguia, Harvey, Byrne, Halse, Humphreys | 2014-2017 | 102,000 |
| ARC-Linkage | Subterranean invertebrate communities of arid zone Western Australia: diversity, assessment and food-web dynamics: Austin, Cooper, Humphreys, Blyth, Mitchell | 2014-2017 | 340,000 |
| ARC-Linkage | \*Quantitative metrics for determining aquifer ecosystem state: Hose & Seymour | 2013-2016 | 447,000 |
| ARC-Linkageindustry | \*Quantitative metrics for determining aquifer ecosystem state: Goonan, Cooper, Humphries, Choy, Westbury | 2013-2016 | 159,000 |
| Flinders University | \*Equipment grant: ObjetPro30 3D printer major equipment application: Long | 2013 | 49,500 |
| ARC LIEF | Next generation enhancement of the South Australian regional facility for molecular ecology and evolution | 2013 | 370,000 |
| NCEDA | Nanostructure of diatoms: A predictive model for brine management and environmental sustainability: Leterme, Ellis | 2011-2012 | 241,058 |
| ARC Discovery | \*Motility as a means to understand prokaryotic function in the biosphere: Ball, Lal, Logan, Stocker | 2010-2012 | 225,000 |
| Lirabenda Fund | \*Metal concentrations in South Australian coastal dolphins: Threats to health and links with lung nematode infestations | 2009 | 3,000 |
| ARC Discovery | \*Diatom frustules: nanostructures at the base of ocean food webs; Beardall, Lal, Morel, McGinn, Pillar | 2009-2011 | 348,000 |
| ARC-Linkage | \*SA aquifer biodiversity: Cooper, Humphries, Brown | 2007-2010 | 280,000 |
| ARC Discovery | \*Physical and Ecological Structure at the Base of Ocean Food Webs: Seuront  | 2006-2008 | 185,000 |
| SA, PRSF | Enabling Infrastructure for Advanced Microscopy and Nanoscopy in South Australia: N. Voelcker | 2005-2007 | 552,000 |
| Flinders | \*Stimuli-responsive and switchable architectures with nanoscale topographies: Johnston, Voelcker | 2005-2006 | 170,000 |
| ARAC | \*The effect of temperature on plankton motility: Seuront | 2004-2005 | 7,500 |
| ARAC | Biophysical interactions with Antarctic plankton: Seuront | 2005-2006 | 16,600 |
| ARC Discovery | \*Nanoscale particle control by rigid biomineralised surfaces: Voelcker, Lal, Rosengarten | 2004-2006 | 220,000 |
| ARC Discovery | \*Ocean microscale dynamics: Yamazaki, Koike | 2003-2005 | 162,000 |
| Australian Antarctic Science  | \*Three-dimensional microscale distribution and production of plankton populations | 2004-2005 | 10,450 |
| Australian Antarctic Science  | Impact of viscosity on the morphology and swimming behaviour of motile bacterioplankton, phytoplankton and protozooplankton | 2004-2005 | 9,203 |
| FUSA | \*Microscale phytoplankton dynamics | 2002 | 9,300 |
| AAS/JSPS | \*Aust. Acad./Japan Exchange Fellowship | 2000-2001 | 10,000 |
| ARC | Centre for the Advancement of Marine Ecological Modelling: SJ Hall *et al*. returned | 2000-2002 | 2,395,402 |
| ARC Discovery | \*Microscale bacterioplankton dynamics | 2000-2002 | 202,718 |
| URB | \*Small-scale diffusion near phytoplankton surfaces | 1999-2000 | 10,000 |
| FUSA | \*Oceanographic equipment | 1999 | 40,980 |
| FUSA | \*Infrastructure grant | 1998 | 10,000 |
| ARC-APAI | Photochemical and microbial decomposition of dissolved organic carbon in SA reservoirs and implications for in-lake control of organic pollution: Recknagel  | 1998-2001 | 74,846 |
| FUSA | \*Visiting research fellowship | 1998 | 2,000 |
| ARC Discovery | \*Initiation use and control of high-speed motility and microclustering in marine bacteria: Armitage | 1997-1999 | 173,000 |
| ARC-APAI | \*The effect of aerial exposure on oyster productivity  | 1997-1999 | 105,000 |
| ARC-APAI | \*Monitoring and modelling the impact of environmental factors on tuna farms (co-supervisor) | 1997-1999 | 93,000 |
| SAOGA/ FUSA | \*Spatial patchiness of primary and filter feeder productivity (South Aust. Oyster Growers Assoc.) | 1997-1999 | 72,000 |
| TBOAA | \*Phytoplankton dynamics of Boston Bay (Tuna Boat Owners Assoc. of Australia) | 1997-1999 | 69,000 |
| FUSA | \*Visiting research fellowship | 1997 | 2,000 |
| FUSA/SRRC | \*The fate of discharged bacteria in the marine environment (Southern Regions Research Council) | 1997 | 13,000 |
| Coast watch | \*Impact of oysters on Franklin Harbour's ecosystem | 1997 | 1,700 |
| ARC Discovery | \*The Mechanisms and Control of High Speed Motility in Marine Bacteria; Armitage | 1994-1996 | 41,200 |
| Antarctic DivisionANARE | \*Impact of viscosity on trophic, behavioural, and morphological adaptations of Antarctic plankton and the role of gelatinous plankton as predators in the Antarctic ecosystem: Matsumoto, Havenhand | 1995-1996 | 16,410 |
| ARC  | \*Laser tweezing: spectroscopy of optical trapped micron-sized particles: Steven Prawer, Michelle Livett | 1995 | 25,000 |
| CSIRO  | Fast repetition rate fluorometry cruise: Yvonne Bone | 1995 | 170,800 |
| URB | \*Fast repetition rate fluorometry | 1994 | 3,500 |
| URB | \*Spatial and temporal exchanges in plankton communities of South Australian waters  | 1993-1994 | 23,170 |
| URB | \*Fluorometric measurement of biomass, production and feeding | 1994 | †42,000 |
| URB | \*Development of an optical trap and microtensiometer | 1993 | 47,810 |
| ARC | \*Development of the optical trap for manipulation and isolation of bacteria | 1993 | 16,220 |
| URB | \*The effect on genetic transfer in enteric and marine bacteria | 1993 | 3,500 |
| URB | \*Motility and chemotaxis in marine bacteria | 1992 | 28,500 |

**Total competitive funding $10,894,524**

†$20,000 from the F.U. Development Fund

ARC= Australian Research Council, URB=University Research Board

**Non-competitive funding (First CI unless ‘NFCI’)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Title of project; co-investigators**  | **Dates** | **AUD$** |
| Flinders University | -80 °C Freezer sample restoration grant | 2020 | 240,000 |
| SA Dept Environment and Conservation | Terrestrial Ecology lecturer position shared funding agreement for **Dr Mike Gardner** | 2009 | 166,516 |
| SARDI | Cetacean researcher/lecturer position funded by the South Australian Minister for Agriculture, Food and Fisheries (South Australian Research and Development Institute, SARDI) for **Dr** **Guido Parra** | 2009 | 250,000 |
| Flinders University | **A Prof Luciana Moller** by leveraging Dr Parra’s position into a second position |  |  |
| SARDI | Shark researcher/lecturer position funded jointly by Flinders to SARDI for **Dr Charlie Huveneers** | 2009 | 250,000 |
| Flinders University | **Prof Luciano Beheregaray,** by leveraging Dr Huveneer’s position into a second position |  |  |
| FP | Fe Bio-stimulation in Boston Bay Seawater - FP | 2009 | 17,000 |
| ANZ Holsworth Wildlife Research | Complexity of dolphin breathing patterns as quantitative indicator of stress in coastal dolphins | 2009 | 5,000 |
| Common- wealth | School of Biological Sciences Teaching Building, aka Discovery Centre\* **NFCI** | 2009 | 8,800,000 |
| DEH | Study of dinoflagellates cysts survival and germination in port source water. | 2008 | 15,000 |
| SARDI | Contribution for Prof Laurent Seuront’s ARC Australian Professorial Fellowship | 2008 | 25,000 |
| Flinders | Contribution for Prof Laurent Seuront ARC Australian Professorial Fellowship | 2008 | 25,000 |
| Zoos SA | Strategic research in small animal behaviour position for **Dr Greg Johnston** | 2008 | 300,000 |
| Nofima | Aquaculture development position for **Dr Nick Robinson** | 2008 | 350,000 |
| Whale and Dolphin Conservation Society of the UK | Jointly funded position for **Dr Cara Miller** by Whale and Dolphin Conservation Society (WDCS) and FUSA | 2008 | 365,000 |
| SARDI | Seafood Physiologist Position funded by Minister for Agriculture, Food and Fisheries (SARDI) for **Dr. Trent D’Antignana** | 2008 | 156,138 |
| SARDI | Biological Oceanographer Junior Position funded by Minister for Agriculture, Food and Fisheries (SARDI) for **Dr. Sophie Leterme** | 2008 | 31,541 |
| DEH | Joint position salary contribution from DEH for Naracoorte Caves World Heritage Site for **Dr Liz Reed** | 2007 | 130,000 |
| SARDI | Biological Oceanographer Senior Position funded by the Minister for Agriculture, Food and Fisheries (SARDI) for **Prof Laurent Seuront** | 2007 | 50,000 |
| Edgewater Marina Develoment Company | Monitoring of Indo-Pacific Bottlenose dolphins (*Tursiops aduncus*) during construction of a new marina | 2007 | 25,968 |
| RSPCA | Investigation of PCB concentrations in coastal dolphins in South Australia: threats to species health and links with parasitic lung nematodes | 2007 | 7,245 |
| SARDI | Biological Oceanographer Position funded by Minister for Agriculture, food and Fisheries (SARDI) for Prof Laurent Seuront | 2007 | 33,326 |
| DEH | Study of dinoflagellates cysts survival and germination in ballast water (Toxic dinoflagellates) | 2007 | 15,000 |
| Harvest Plus | Joint position salary for the development of fortified rice for **James Stangoulis** | 2007 | 500,000 |
| various | Flinders University Lincoln Marine Station Appeal\* **NFCI** | 1995 | 1,400,000 |
| various | Flinders University Port Lincoln Marine Station\* **NFCI**  | 1994 | 650,000 |
| Flinders U | Flinders University Research-Aquarium Facility | 1993 | 300,000 |

**\*** with other Flinders University staff and SA Community members

**Total non-competitive funding $13,867,734**

**Total funding $23,960,601**

**Funded and spinoff positions initiated by Jim Mitchell (2007 – 2020)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Funding Partner** | **Arrangement** | **Outcome** |
| 1. Rob Edwards
 | Flinders University | Recruitment  | Clarivate Highly cited researcher moved to Flinders University permanently in 2020 |
| 1. Liz Dinsdale
 | Flinders University | Recruitment | Moved to Flinders University permanently in 2020 |
| 1. Trent D’Antignana
 | Clean Seas Tuna | LMSC tuna research | Ended 5 year contract and went to work for CST |
| 1. Mike Gardner
 | SA Museum | Mixed role  | Associate Professor at Flinders University |
| 1. Charlie Huveneers
 | SARDI | Mixed role (SARDI based) | Professor at Flinders University |
| 1. Greg Johnston
 | ZoosSA | Mixed role | Moved to the government after 3 years |
| 1. Sophie Leterme
 | SARDI | Mixed role | Associate Professor at Flinders University |
| 1. Cara Miller
 | The Whale and Dolphin Conservation Society, UK | Marine mammal research in Fiji | Returned to WDCS after 5 years |
| 1. Guido Parra
 | SARDI | Mixed role | Associate Professor at Flinders University |
| 1. Liz Reed
 | SA Department of Environment and Heritage | Mixed role | Returned to DEH after 5 years |
| 1. Nick Robinson
 | Nofima | Aquaculture research | The arrangement with Nick and Nofima ended in 2020 after 10 years |
| 1. Laurent Seuront
 | SARDI | Mixed role | Received an ARC APF and then returned to CNRS, France |
| 1. James Stangoulis
 | Harvest Plus | Research focus | Associate Professor at Flinders University |
|  |  |  |  |
| *Alternate funding* |  |  |  |
| 1. Luciano Beheregaray
 | Flinders University | Mixed role, hired directly out of joint position pool | Future Fellow at Flinders University |
| 1. Peter Fairweather
 | SA Department of Environment and Heritage | Seconded to DEH | Returned to Flinders University after 3 years |
| 1. Graham Mair
 | Seafood CRC | Seconded to the Seafood CRC | Returned to Flinders University after 7 years |
| 1. Luciana Moller
 | Flinders University | Mixed role, hired directly out of joint position pool | Associate Professor at Flinders University |
| 1. Louise Renfrey
 | SARDI | Seconded to SARDI as executive assistant | Worked for SARDI for 5 years and retired. |

**Oceanographic cruises and Expeditions**

Bismarck Archipelago, Australia: June-July 1974

Bismarck Archipelago, Papua New Guinea: June-July 1976

International Weddell Sea Oceanographic Expedition, Antarctica: January-March 1978 (*USCGC Glacier*)

International Weddell Sea Oceanographic Expedition, Antarctica: January-March 1980 (*USCGC Polar Sea*)

Microbial Couplings and Exchanges in Coastal Atlantic Systems: August-September 1985 (NSF *RV Gyre*)

Operation Canopee, Cameroon rainforest biodiversity with Elf Aquitaine and Doctors Without Borders

Seagrass expeditions: monthly short cruises 1993-1994: Gulf St Vincent (*RV Ngerin* and local boats)

Oshima Island Expedition: October 2000 (*RV Shinyo maru*)

Sagami Bay Expedition: April 2001 (*RV Shinyo maru*)

**Teaching**

***Course Development at Flinders University of South Australia***

 Marine Biology Degree, 1999-2000;

 Globalisation Degree, 1998-1999

 Marine Biology Stream, 1992-1996

***Lecture &*** ***Laboratory Hours***

**1992-2006**: 50 & 140 hrs/yr, 2007-2013: 45 & 40 hrs/yr, 2014-present: 92 hrs/yr total

***Teaching Experience***

 ***Topics:*** Bioinformatics (2021 – present), Environmental Biotechnology (2012-2022), Extension Studies in Biology (2011-2012) Introductory Biology (2005-present), Marine Biology & Ecology (1992-2002, 2004-present), Introductory Marine Sciences (1999-2002, 2004-2013), Introduction to Research (2005-2010), Biological Experimental Design (2007-2010), Marine Biology Research Projects (1992-2002, 2004-2010), Biology and Society (2004-2010), Living Marine Resources (1993-2002, 2005-2007), Globalization (1999-2002, 2005-2009), Marine Microbiology (1993-2002, 2004-2005), Molecular and Cellular Biology Laboratories (1992-1999), Functional Ecology of Marine Organisms (1996-2002, 2004-2007), Marine Biodiversity (1994-1997), Physiology of Marine Organisms (1992), Introduction to Ecology (1991, Rice University), Graduate Studies in Global Climate Change (1991, Rice University), Introduction to Microbiology (1989, University of Barcelona, in Spanish), Graduate Studies in Protozoology (1989, A. U. Barcelona, in Spanish).

***Honours Students (1-year research degree)***

|  |  |
| --- | --- |
| **1992 - 1994** |  |
| **Student** | **Outcome** |
| 1. Prof Peter Strutton\*\*
 | Future Fellow & Prof, U. Tasmania |
| 1. Simon Dillon
 | PhD Adelaide U., oenologist |
| 1. Hui Hui Lee
 | Deceased |
| 1. Anne Fordham
 | CSIRO, Soil scientist |
| 1. Dr Michelle (Lemon) Blewett
 | Founder and Director, Marine Mammal Research Australia |
| 1. Adam Gromadzki
 | CSIRO manager  |
| 1. Dr Rosemary Paxinos\*\*
 | Department of Environment and Natural Resources (retired) |
| 1. Sar Ng
 | Singapore consultant |
|  |  |
| **1995 - 1997** |  |
| 1. Dr Michelle Hale\*\*
 | Head School of Earth and Environmental Sciences, University of Portsmouth, UK |
| 1. Martin Loipersberger
 | Senior wastewater engineer, HDS Australia |
| 1. Dr Greg Barbara\*\*
 | U Tokyo, St. Andrews U, Scottish Salmon, SKM consultants |
| 1. Kosette Lambert
 | Adelaide U, Manufacturing Focus |
| 1. James Tilly
 | Jeffries Compost |
| 1. Lyn Bridger
 | Nurse  |
| 1. Dr Natalie Dowling\*\*
 | CSIRO, fisheries modeller |
| 1. Esmee van Wijk
 | CSIRO, oceanography technician |
| 1. Dr Matt Fitzpatrick
 | unknown |
| 1. James Chittleborough\*
 | Bureau of Meteorology |
| 1. Zarina Jayaswal\*
 | Royal Australian Navy |
|  |  |
| **1998 – 2003** ***(sabbatical at Tokyo University of Fisheries 2000 - 2001)*** |  |
| 1. Prof Justin Seymour\*\*
 | Oceanographer, University of Technology Sydney |
| 1. Paul Greig
 | Ecotourism guide |
| 1. Dr Johannes Hagström
 | Research Staff, Linnaeus University, Sweden |
| 1. Kylie Evans
2. Dr Rachel Pillar
 | UnknownBHP post doc, Flinders post doc, permanent maternity leave |
| 1. Rachael Pearce
 | Conservation officer, Eyre Peninsula, SA |
| 1. Nathan Rhodes
 | Australian Quarantine and Inspection Service, aquaculture |
|  |  |
| **2003 - 2005** ***(Faculty position, University of Tokyo 2003 – 2004)*** |  |
| 1. Dr Nicole Patten\*\*
 | AIMS/U. Western Australia post doc, SARDIss, consultant |
| 1. Dr Chantel Westley
 | Conservation director, Rio Tinto |
| 1. Dr Thomas Jeffries\*\*
 | UTS & UWS, Post Doc, senior lecturer  |
|  |  |
| **2006 - 2009** ***(Deputy Head and Head of Biological Sciences 2005 -2010)*** |  |
| 1. Lisa Cousins
 | George Payne Duty Manager |
| 1. Dr James Paterson\*\*\*
 | Post Doc, Flinders University, SAWater |
| 1. Danny Ashcroft
 | Science teacher, Mt Gambier High School |
| 1. Lydia Koh
 | Singapore, in family business |
| 1. Dr Ben Roudnew
 | Dept. Env. Water, Heritage & Arts |
| 1. Dr Karina Winn\*\*
 | Biomedical Scientist, Queensland government |
| 1. Dr Renee Smith\*\*
 | Chief Scientist, Flinders Sequencing Centre |
| 1. Dr Crystal Beckman\*\*
 | SARDI |
| 1. Dr Krystal Jay\*\*
 | PhD student in Mitchell lab |
| 1. Clayton McCloud
 | unknown |
| 1. Jenni Bailey
 | Environmental Ranger, triathlete  |
| 1. Soxi Lee
 | Environmental biologist, Singapore |
| 1. Dr Eloise Prime\*\*
 | Sydney Water, Port Macquarie Water |
| 1. Dr Claire Charelton
 | Director Southern Right Whale Program |
| 1. Lailie Maloney
 | Robe businesswoman |
|  |  |
| **2010 - 2014** |  |
| 1. Matthew Russell\*
 | SA high school teacher |
| 1. Nikki Condron
 | Unknown  |
| 1. Nathan Gloede
 | Unknown  |
| 1. Dr Lisa Dann\*\*
 | Flinders University, post-doctoral fellow, lab manager BiomeBank |
| 1. Jacqueline Rochow\*\*
 | High school science teacher in Coober Pedy |
| 1. Cally Sibley
 | Well manager for Rio Tinto |
| 1. Dominic How
 | Lab technician, Abbott Laboratories |
| 1. Sajina Shakya
 | Unknown  |
| 1. Emma-Louise Dean
 | Technician  |
| 1. Dr Jessica Carlson-Jones\*\*
 | Post doc at Adelaide Women’s and Children’s Hospital |
| 1. Michael Dyson
 | Hospital worker in Nepal |
| **2015 - 2019** |  |
| 1. Dr Jody Fisher\*\*
 | Fulbright Fellow, PhD student in Mitchell lab |
| 1. Dr Louise Bartle\*\*\*
 | PhD student, University of Adelaide |
| 1. Maria Stefanidakis
 | Unknown  |
| 1. Anthony Carlesso
 | Gap years |
| 1. Briannie Albrighton
 | Business  |
| 1. Kate Luders
 | Science communications |
| 1. Stephanie Hamms
 | Agriculturist  |
| 1. Abby Dennis
 | Withdrawn  |
| 1. Ned Nelson
 | Withdrawn  |
| 1. Ashleigh Hisee
 | Sewage treatment |
| 1. Danielle Saunders\*
 | Dinoflagellate toxins |
| 1. Brooke Scott
 | Plankton blooms |
| 1. Reuben Wheeler
 | Groundwater contaminant microbiology |
| 1. Marat Sverdlov
 | Diabetic foot ulcer microbiology |
| 1. Connor Mcivor
 | Oyster herpes virus methods |
| 1. Laura Inglis
 | Microbial ecology |
| 1. Xinyue Zhang
 | Microbial ecology |
| **2020-2024** |  |
| 1. April Van Der Kamp
 | Microbial invasion |
| 1. Niki Romeo
 | Microbial bioinformatics |
| 1. Nicola Papazis
 | Microplastic detection |
| 1. Matthew Magnusson
 | Oyster settling |
| 1. Kristy Shipley
 | Microbe attachment |
| 1. Amy Anells
 | Microbe detection |
| 1. Abbey Hutton
 | Microbial migration |
| 1. Janet Klein
 | Marine microplastics |
| 1. Susie Grigson
 | Bioinformatics for gene evolution |
| 1. Jacob Reeves
 | Microbe detection |
| 1. Georgina Tilly-Scholes
 | Microplastics in Wetlands |
| 1. Kristen Zidek
 | Oyster hatchery microbiomes |

\*Co-supervised

\*\* Honours and PhD with Jim Mitchell

***Masters Research Students***

|  |  |  |
| --- | --- | --- |
|  **student** |  **year** |  **Outcome** |
| 1. Dr Maira Martinez-Alonso\*
 | 1989 | Purple sulphur bacteria thesis |
| 1. Sahar Houthan
 | 2016 | Exosome and viral differentiation thesis |
| 1. Reem Kurdi
 | 2016 | Microbes on hospital surfaces thesis |

***Ph.D. Students***

|  |  |  |
| --- | --- | --- |
| **student** | **year** | **Outcome** |
| 1. Prof Peter Strutton
 | 1998 | Monterey Bay Aquarium Research Institutepd, Stony Brook Uap, Oregon State Uap, U Tasmaniaff |
| 1. Dr Simon Bryars\*
 | 2001 | SARDI, DEW Principle Marine Scientist |
| 1. Dr Michelle Hale
 | 2002 | Memorial Upd, U Portsmouthl, sl, ah, Head of School |
| 1. Dr Greg Barbara
 | 2002 | U Tokyopd, Saint Andrews Umcf, Jacobs consulting, Environmental Assessment and Policy Officer at Secretariat of the Pacific Regional Environment Programme |
| 1. Dr Raechel Waters
 | 2003 | U Lillepd, U Washingtonpd, U Washingtonad, Paul G. Allen Foundation, Head of Ocean Health, Biology Teacher, IB Diploma at UWC-USA  |
| 1. Dr Ben Baghurst
 | 2003 | Astra Zenica, Rural Solutions SA, SARDI, Principal Consultant - AgTech |
| 1. Dr Katerina Kantalis
 | 2003 | U of Oxfordrs, Imperial College Londonrs, Director of Development and Alumni Relations at Regent's University London, https://katerinakantalis.co.uk/ |
| 1. Prof Justin Seymour
 | 2005 | MITpd, Flinders Uapd, U Technology Sydneyff |
| 1. Dr Alauddin Talukder
 | 2005 | Business (opened business on achieving PhD) |
| 1. Dr Natalie Dowling
 | 2005 | CSIROss, Hobart (supervised by S Hall, by JGM 04-05) |
| 1. Dr Mark Doubell
 | 2007 | Tokyo U of Marine Science and Technologypd, SARDIss |
| 1. Prof Irma Kesaulya
 | 2008 | Pattimura UniversityFF, Indonesia |
| 1. Dr Rosemary Paxinos
 | 2008 | Department of Environment and Heritagess, retired |
| 1. Dr Nicole Patten\*
 | 2008 | PhD Southern Cross U†, U Western Australiapd, SARDIss, Project Manager at JBS&G - Fast Capable Experts |
| 1. Dr Chantel Westley\*
 | 2008 | Flinders Upd, Superintendent Business Services at Rio Tinto  |
| 1. Dr Yan Li\*
 | 2008 | SARDIpd, University of Queensland |
| 1. Dr Michael Short\*
 | 2008 | SARDI |
| 1. Dr Thomas Jeffries
 | 2011 | U Technology Sydneypd, U Western Sydneypd, senior lecturer |
| 1. Dr Trish Lavery
 | 2012 | Dept. Env. Water, Heritage & Arts, DAWE senior analyst |
| 1. Dr Paul Rogers\*
 | 2012 | SARDIpd, research scientist |
| 1. Dr Coraline Chapperon\*
 | 2012 | European Institute of Marine Studiespd, Chargée de projets scientifiques Fonds National de la Valorisation chez ANR (Agence nationale de la recherche)  |
| 1. Dr V van Dongen Vogels\*
 | 2012 | Oregon State Universitypd, U Technology Sydneypd, AIMS |
| 1. Dr Kelly Newton\*
 | 2012 | Metal ore microbiologypd, SAWater |
| 1. Dr Renee Smith
 | 2012 | Chief scientist, Flinders Sequencing Centress, Lecturer |
| 1. Dr James Paterson\*
 | 2012 | Flinders Universitypd, SAWater |
| 1. Dr Ben Roudnew
 | 2014 | Dept. Env. Water, Heritage & Arts, DAWE |
| 1. Dr Crystal Beckman\*
 | 2014 | SARDIpd |
| 1. Asst Prof Sayali Patil\*
 | 2015 | RMITpd, Savitribai Phule Pune University |
| 1. Dr Nardi Cribb\*
 | 2016 | Dolphin movement dynamics, Brighton Veterinary Hospital |
| 1. Dr Krystal Jay
 | 2017 | Time series analysis of megafauna movements, education business |
| 1. Dr Eloise Prime
 | 2017 | Water scientist, Port Macquarie-Hastings Council |
| 1. Dr Karina Winn
 | 2016 | Biomedical scientist, Queensland government |
| 1. Dr Lisa Dann
 | 2016 | BiomeBank, Research Director |
| 1. Jack Rochow
 | - | Withdrew to supervise high school science in remote SA |
| 1. Dr Bin Wang\*
 | 2017 | Nitrogen metabolism of the Bohai Sea, IOCASpd |
| 1. Matthew Heard\*
 | 2017 | Aquaculture Dynamics, intermission |
| 1. Dr Jessica Carlson-Jones
 | 2018 | Oral microbiome, Adelaide Women’s and Children’s Hospital |
| 1. Dr James Herringer\*
 | 2018 | Diatom microfluidics |
| 1. Dr Tamsyne Smith-Harding
 | 2018 | The role of silica in diatom photosynthesis |
| 1. Dr Caixa Wang\*
 | 2018 | Bio-physical coupling in the Bohai Sea, IOCASpd |
| 1. Gianny Scoleri\*
 | - | Respiratory tract microbial ecology, intermission |
| 1. Shirin Akter\*
 | 2018 | Aquaculture food web dynamics, intermission |
| 1. AB Rahman\*
 | 2018 | Aquaculture food web dynamics, intermission |
| 1. Dr Josephine Hyde\*
 | 2018 | Connecticut Agricultural Experiment Station, WA DBCA |
| 1. Dr Maria Kleshnina\*
 | 2019 | Modelling incompetence in bacterial evolution, Institute of Science and Technology, Austriapd |
| 1. Dr Yibo Wang\*
 | 2019 | Bacterio- and virioplankton in the Bohai Sea, IOCASpd |
| 1. Shaun Henderson\*
 | - | Aquaculture food web dynamics, withdrawn |
| 1. Dr Jody McKerral (Fisher)
 | 2020 | Network analysis, Playford Trust, Aust Math Soc, Fulbright Scholar |
| 1. Dr Louise Bartle\*
 | 2020 | Yeast-bacteria interactions, Université de Sherbrookepd |
| 1. Dr Legesse Kifelew\*
 | 2020 | Environmental viruses, University of South Australiapd |
| 1. Dr Marika Takeuchi\*
 | 2020 | Microbial oceanography |
| 1. Reuben Wheeler
 | 2023 | BiomeBank, gut microbiome metabolism |
| 1. Matt Hisee
 | 2023 | Discipline change |
| 1. Danielle Saunders
 | 2023 | Discipline change |
| 1. Connor McIvor
 | 2023 | Microplastics  |
| 1. Brooke Scott
 | 2023 | Stygofauna behaviour |
| 1. Amy Annells
 | 2025 | Viral sorting and sequencing |
| 1. Niki Romeo
 | 2025 | Microbial electrolysis cell degradation |
| 1. Abbey Hutton
 | 2025 | Microbial invasion |
| 1. April Van Der Kamp\*
 | 2025 | Diabetic foot ulcers, supervisor change |
| 1. Laura Inglis\*
 | 2025 | Metagenomic annotation |
| 1. Susie Grigson\*
 | 2025 | Viral identification by bioinformatics |
| 1. Bhavya Papudeshi\*
 | 2025 | Bacterial identification by bioinformatics |
| 1. Shaymaa Al-Mamoori
 | 2026 | Microbial ecology |
| 1. Georgina Tilly-Scholes
 | 2026 | Environmental Microplastics |

\*co-supervised with JGM as the second or senior supervisor, †JGM funder and academic supervisor

pdpost doc, apassistant professor, llecturer, slsenior lecturer, rsresearch scientist, ssstaff scientist, adassociate director, UW Sea Grant, apdAustralian Post-Doctoral Fellow, mcfMarie Curie Fellow, ffFuture Fellow, FFFulbright Fellow, ahAssociate Head of Department

***Post-Doctoral Fellows***

|  |  |  |
| --- | --- | --- |
| **Fellow** | **Starting year** | **Outcome** |
| 1. Prof Anthony Koutoulis
 | 1992 | Head of Biological Sciences, U Tasmania |
| 1. Prof Amir Ibrahim
 | 1994 | Director, High Inst Mar Res, Tishreen U, Syria |
| 1. Nicolas Blackburn
 | 1997 | Chief Software Engineer, Bioras, Denmark |
| 1. Rolf Luchsinger
 | 1998 | Head, Center for Synergystic Structures, EMPA, Switzerland |
| 1. Prof Laurent Seuront
 | 2002 | ARC Professorial Fellow, Flinders U, CNRS Fellow |
| 1. A Prof Sophie Leterme
 | 2006 | Associate Professor, Flinders U |
| 1. Mathilde Schapira
 | 2007 | Research Scientist, Environment Laboratory of Normandy, Ifremer, France  |
| 1. Prof Justin Seymour
 | 2007 | Professor, U Technology Sydney |
| 1. Remko Leijs
 | 2008 | Senior Research Associate, SA Museum & Flinders U |
| 1. Louise English
 | 2008 | Manager, Centre for Integrative Systems Biology and Bioinformatics, Imperial College London |
| 1. Rachel Pillar
 | 2009 | Permanent maternity leave  |
| 1. Prof Liz Dinsdale
 | 2009 | Professor, San Diego State University, Flinders University |
| 1. Ruth Zoehrer
 | 2010 | RA, U South Australia, Publications Specialist, Austria |
| 1. Steven Smriga
 | 2011 | Research Associate, MIT & ETH Zurich |
| 1. Marina Delpin
 | 2011 | Research Mentoring Manager, Flinders U  |
| 1. Tom Jeffries
 | 2012 | ARC Post-doctoral Fellow, U Technology Sydney, Western Sydney U: Lecturer, WSU |
| 1. Kelly Newton
 | 2013 | Research Associate, SA Water |
| 1. James Paterson
 | 2013 | SA Water |
| 1. Renee Smith
 | 2014 | Flinders Genomics Facility Manager |
| 1. Lisa Dann
 | 2016 | BiomeBank & Seeley |
| 1. Jessica Carlson-Jones
 | 2019 | current |
| 1. Sarah Giles
 | 2019 | With Rob Edwardspd |
| 1. Qi Yang
 | 2022 | current |

**Journal Reviewing**

***Nature, Science, Proceedings of the National Academy of Science, Physical Review Letters, Proceedings of the Royal Society Interface, Acta Biomaterialia, American Naturalist, FEMS Microbiology Ecology, Aquatic Microbial Ecology, Marine Biology, Marine Ecology Progress Series, Advances in Microbiology, Nature Microbiology, ISME J***

**Proposal Reviewing**

Australian Research Council, US National Science Foundation, NZ Masden Foundation, Gordon and Betty Moore Foundation, UK National Environment Research Council, Canadian National Science and Engineering Research Council, UK Biotechnology and Biological Sciences Research Council, Australian Antarctic Division

**Collaborators**

Rob Edwards, Flinders University

Liz Dinsdale, Flinders University

Peter Speck, Flinders University

Manu Prakesh, Stanford University

Dan Needleman, Harvard University

Yan Wang, Zhejiang University

Jed Fuhrman, University of Southern California

Xiaoke Hu, Yantai Coastal Zone Research Institute

Jim Tiedje (US NAS), Michigan State University

Andy Ball, Royal Melbourne Institute of Technology

Andy Austin, University of Adelaide

Steve Cooper, South Australian Museum

Bill Humphries, Western Australian Museum

Grant Hose, Macquarie University

Victor Smetacek, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research

Justin Seymour University of Technology Sydney

John Beardall, Monash University

Bruce Logan, Pennsylvania State University

David Bourne, Australian Institute of Marine Sciences

Roman Stocker, Massachusetts Institute of Technology and ETH Zurich

Ratnesh Lal, University of California San Diego

Nico Voelcker, University of South Australia, Monash University

Dusan Losic, University of Adelaide

Tim Pedley (FRS, DAMTP chair, retired), Cambridge University

Hidekatsu Yamazaki, Tokyo University of Marine Science and Technology

Birger Bergersen, University of British Columbia

Judy Armitage, University of Oxford

**Referees**

Emeritus Professor Warren Lawrance, Executive Dean of Science and Engineering during Mitchell’s Headship, warren.lawrance@flinders.edu.au

Professor Ian Menz, Head of School of Life Sciences, University of Technology, Sydney. Prof Menz was Mitchell’s supervisor for 9 years at Flinders University, ian.menz@uts.edu.au