

QUALIFICATIONS

BSc, University of Auckland, 1983
 MSc, University of Auckland, 1985
 PhD, University of Otago, 1992

PROFESSIONAL AFFILIATIONS

New Zealand Society of Endocrinology
 Animal Behavior Society (U.S.)

ROLE AT CAWTHRON

Andrew is an experienced molecular biologist employed by the Cawthron Institute as a research scientist. His primary task is to direct molecular biological research associated with the Greenshell™ mussel (*Perna canaliculus*) selective breeding program while also providing both technical and conceptual input into a diverse range of Cawthron-based research projects that require molecular biological techniques. Andrew is also developing projects associated with his interests in animal behaviour and conservation.

SPECIAL INTERESTS

- Genetics and molecular biology of marine invertebrates
- Genetic influences on the behaviours of free-living animals
- Conservation biology

SELECTED PUBLICATIONS

Fidler A, Lawrence SB, McNatty KP 2008. A hypothesis to explain the linkage between kakapo (*Strigops habroptilus*) breeding and the mast fruiting of their food trees. *Wildlife Research* 35, 1 -7.

Mueller JC, Steiger S, Fidler AE, Kempenaers B 2008. Biogenic Trace Amine-Associated Receptors (TAARS) are encoded in avian genomes: evidence and possible implications. *Journal of Heredity* 99, 174 - 176.

Johnsen A, Fidler AE, Kuhn S *et al* 2007. Avian *Clock* gene polymorphism: evidence for a latitudinal cline in allele frequencies. *Molecular Ecology* 16, 4867 – 4880.

Webb SC, Fidler A, Renault T 2007. Primers for PCR-based detection of ostreid herpes virus-1 (OsHV-1): application in a survey of New Zealand molluscs. *Aquaculture* 272, 126 – 139.



Fidler AE 2007. Development and analysis of a *Perna canaliculus* expressed sequence tag (EST) database. Cawthron Report no.1301.

Fidler AE, van Oers K, Drent PJ, Kuhn S, Mueller JC, Kempenaers B 2007. *Drd4* gene polymorphisms are associated with personality variation in a passerine bird. *Proceedings of the Royal Society B*. 274, 1685 – 1691.

Helfer G, Fidler AE, Foulkes N, Brandstaetter R 2006. Diurnal expression of circadian 'clock' genes in house sparrow (*Passer domesticus*) peripheral tissues. *Chronobiology International* 23, 113 - 127.

Fidler AE, Kuhn S, Gwinner E 2004. Convergent evolution of strigiform and caprimulgiform dark-activity is supported by phylogenetic analysis using the arylalkylamine N-acetyltransferase (*Aanat*) gene. *Molecular Phylogenetics and Evolution* 33, 908 - 921.

Fidler AE, Gwinner E 2003. Comparative analysis of avian BMAL1 and CLOCK protein sequences: a search for features associated with owl nocturnal behaviour. *Comparative Biochemistry and Physiology, Part B* 136, 861-874.

Fidler AE, Lin JS, Lun S, Ng Chie W, Western A, Stent V, McNatty KP 2003. Production of biologically active tethered ovine FSHβ_α by the methylotrophic yeast *Pichia pastoris*. *Journal of Molecular Endocrinology* 30, 213 - 225.

Western AH, Eckery DC, Demmer J, Juengel JL, McNatty KP, Fidler AE 2003. Expression of the FcRn receptor (alpha and beta) gene homologues in the intestine of suckling brushtail possum (*Trichosurus vulpecula*) pouch young. *Molecular Immunology* 39, 707 - 717.