

CURRICULUM VITAE

DIARMAID Ó FOIGHIL

Professor of Ecology and Evolutionary Biology/Curator of Molluscs
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Education:

Ph.D. 1987. University of Victoria, Victoria, B.C., Canada
B.Sc. (1st class hons.) 1981. National University of Ireland, Galway

Professional Experience:

Professor/Curator, University of Michigan 2007-
Associate Professor/Curator, University of Michigan 2001-2007
Assistant Professor/Curator, University of Michigan 1995-2001
Research Associate Professor, University of South Carolina 1993-1995
NSERC Post-doctoral fellow, Simon Fraser University, Vancouver, B.C., 1989-92
Independent researcher. Bamfield Marine Station, B.C., Canada 1988-89
Post-Doctoral Fellow at the Friday Harbor Labs, University of Washington 1987

Recent External Service

NSF DEB Systematics Panel Member, 2007, 2006, 2003
Science Foundation Ireland EEOB Panel Member, 2009, 2007
Associate Editor, *Zoological Journal of the Linnean Society*, 2007-
Scientific Committee, International Congress on Bivalvia, 2006
Sponsor Member, Institute of Malacology, 2005-
Associate Editor, *Evolution*, 2003-6
President, American Malacological Society 2002-3.
Council Member, American Malacological Society 2002-7
Steering Member, Coordinating Research on the North Atlantic, 2002-4
Editorial Board, *Malacologia*, 2001-

Publications

- Ó Foighil, D. 2009. Conservation status update on Society Island Partulidae. *Tentacle* 17:30-35.
- Ó Foighil, D., Lee, T., Campbell, D.C. and Clark, S.A. 2009. All voucher specimens are not created equal: a cautionary tale involving North American pleurocerid gastropods. *Journal of Molluscan Studies* In Press.

- Lee, T., J-Y Meyer, J.B. Burch, P. Pearce-Kelly and D. Ó Foighil. 2008. Not completely gone: two partulid tree snail species persist on the highest peak of Raiatea, French Polynesia. *Oryx* 42:615-619.
- Lee, T., J.B. Burch, Y. Jung, T. Coote, P. Pearce-Kelly and D. Ó Foighil. 2007. Tahitian tree snail mitochondrial clades survived recent mass-extirpation. *Current Biology* 17:R502-R503 (this study was also featured in that issue: R493).
- Lee, T., J.B. Burch, T. Coote, B. Fontaine, O. Gargominy, P. Pearce-Kelly and D. Ó Foighil. 2007. Prehistoric Inter-Archipelago Trading of Polynesian Tree Snails Leaves a Conservation Legacy. *Proceedings of the Royal Society B* 272, 2907-2914 (featured on the cover of the journal issue)
- Shilts, M.H., M.S. Pascual and D. Ó Foighil. 2007. Systematic, taxonomic and biogeographic relationships of Argentine flat oysters. *Molecular Phylogenetics and Evolution*. 44:467-473.
- Petkeviciute, R., G. Staneviciute, V. Stunzenas, T. Lee and D. Ó Foighil. 2007. Pronounced karyological divergence of the North American congeners *Sphaerium rhomboideum* (Say, 1822; 2N=44) and *S. occidentale* (Lewis, 1856; 2N~213) (Bivalvia, Veneroidea, Sphaeriidae) *Journal of Molluscan Studies* 73:315-321.
- Lee, T., J.J. Kim, H-C. Hong, J.B. Burch and D. Ó Foighil. 2007. Phylogenetic and taxonomic incongruence involving nuclear and mitochondrial markers in Korean populations of the freshwater snail genus *Semisulcospira* (Cerithioidea: Pleuroceridae). *Molecular Phylogenetics and Evolution*. 43:386-397.
- Walther, A.C., T. Lee, J.B. Burch and D. Ó Foighil. 2006a. *Acroloxus lacustris* is not an Ancyloid: a Case of Misidentification Involving the Cryptic Invader *Ferrissia fragilis* (Mollusca: Pulmonata: Hygrophila). *Molecular Phylogenetics and Evolution* 39:271-275.
- Walther, A.C., T. Lee, J.B. Burch and D. Ó Foighil. 2006b. *E Pluribus Unum*: A Phylogenetic and Phylogeographic Reassessment of *Laevapex* (Pulmonata: Ancyliidae), a North American Genus of Freshwater Limpets. *Molecular Phylogenetics and Evolution* 40:501-516.
- Walther, A.C., T. Lee, J.B. Burch and D. Ó Foighil. 2006c. Confirmation that the North American ancyloid limpet *Ferrissia fragilis* (Tryon, 1863) is a cryptic invader of European, and East Asian, freshwater ecosystems. *Journal of Molluscan Studies* 72:318-321.
- Lee, T., J.J. Kim, H-C. Hong, J.B. Burch and D. Ó Foighil. 2006. Crossing the Continental Divide: the Columbia drainage species *Juga hemphilli* (Henderson 1935) is a cryptic member of the eastern North American genus *Elimia* (Cerithioidea: Pleuroceridae). *Journal of Molluscan Studies*. 72:314-317.

- Lee, T. and D. Ó Foighil. 2005. Placing the Floridian marine genetic disjunction into a regional evolutionary context using the “scorched mussel” *Brachidontes exustus* species complex. *Evolution* 59:2139-2358. (featured on the cover of the journal issue)
- Lützen, J., M. Kato, T. Kosuge and D. Ó Foighil. 2005. Reproduction involving spermatophores in four bivalve genera of the superfamily Galeommatoidea commensal with holothurians. *Molluscan Research*. 25: 99-112.
- Lee, T., S. Siripattawan, C. Ituarte and D. Ó Foighil. 2005. Invasion of the clonal Clams: *Corbicula* lineages in the New World. *American Malacological Bulletin*. 20:113-123.
- Bieler, R., P. Mikkelsen, T. Lee and D. Ó Foighil. 2004. Discovery of the Indo-Pacific oyster *Hyotissa hyotis* in the Florida Keys (Gryphaeidae; Bivalvia). *Molluscan Research*. 24: 149-159.
- Lee, T. and D. Ó Foighil. 2004. Hidden Floridian biodiversity: mitochondrial and nuclear gene trees reveal four cryptic species within the scorched mussel, *Brachidontes exustus*, species complex. *Molecular Ecology* 13:3527-3542.
- Kirkendale, L., T. Lee, P. Baker and D. Ó Foighil. 2004. Oysters of the *Conch Republic* (Florida Keys); a Molecular Phylogenetic Study of *Parahyotissa mcgintyi*, *Teskeyostrea weberi* and *Ostreola equestris*. *Malacologia*. 46:309-326.
- Tongkerd, P., T. Lee, S. Panha, J.B. Burch and D. Ó Foighil. 2004. Molecular Phylogeny of Thai Micro Land Snails (Stylommatophora; Pupillidae; Gastrocoptinae) Inferred from Mitochondrial and Nuclear Ribosomal Gene Trees. *Journal of Molluscan Studies*, 70:139-147.
- S. A. Webb, J. A. Graves, C. Macias-Garcia, A. E. Magurrana, D. Ó Foighil and M. G. Ritchie. 2004. Molecular phylogeny of the live bearing Goodeidae (Cyprinodontiformes). *Molecular Phylogenetics and Evolution*. 30:527-544.
- Lee, T. and D. Ó Foighil. 2003. Phylogenetic Structure of the Sphaeriinae, a Global Clade of Freshwater Bivalve Molluscs, Inferred from Nuclear (ITS-1) and Mitochondrial (16S) Ribosomal Gene Sequences. *Zoological Journal of the Linnean Society* 137: 245-260.
- Lee, T. and D. Ó Foighil. 2002. 6-Phosphogluconate dehydrogenase (PGD) allele phylogeny is incongruent with a recent origin of polyploidization in some North American Sphaeriidae (Mollusca: Bivalvia). *Molecular Phylogenetics and Evolution*. 25:112-124.
- Ó Foighil, D., R. Jennings, J.K. Park, D.A. Merriwether. 2001. Phylogenetic Relationships of Mid-Oceanic Ridge and Continental Lineages of *Lasaea*

- (Mollusca: Bivalvia) in the Northeastern Atlantic. *Marine Ecology Progress Series* 213:165-175.
- Ó Foighil, D. and D.J. Taylor. 2000. Evolution of parental care and ovulation behavior in oysters. *Molecular Phylogenetics and Evolution* 15:301-313.
- Ó Foighil, D. and D.L. Graf, D.L. 2000. Prodissoconch morphology of the relict marine paleoheterodont *Neotrigonia margaritacea* (Mollusca: Bivalvia) indicates a non-planktotrophic prejuvenile ontogeny. *Journal of the Marine Biological Association of the United Kingdom*. 80:173-174.
- Park, J.K. and D. Ó Foighil. 2000. Sphaeriid and Corbiculid Clams Represent Separate Heterodont Bivalve Radiations into Freshwater Environments. *Molecular Phylogenetics and Evolution*. 14:75-88.
- Taylor, D.J. and D. Ó Foighil. 2000. Transglobal comparisons of nuclear and mitochondrial genetic structure in a marine polyploid clam (*Lasaea*, Lasaeidae). *Heredity* 84:321-330.
- Park, J.K. and D. Ó Foighil. 2000. Genetic diversity of oceanic island *Lasaea* (Mollusca: Bivalvia) lineages exceeds that of continental populations in the Northwestern Atlantic. *Biological Bulletin* 198:396-403.
- Cooley, L.R. and D. Ó Foighil. 2000. Phylogenetic analysis of the Sphaeriidae (Mollusca: Bivalvia) based on mitochondrial 16S rDNA gene sequences. *Invertebrate Biology*. 119(3) 299-308..
- Graf, D.L. and D. Ó Foighil. 2000. The evolution of brooding characters among the freshwater pearly mussels (Mollusca: Bivalvia: Unionoidea). *The Journal of Molluscan Studies* 66:157-170.
- Siripattawan, S., J.K. Park and D. Ó Foighil. 2000. Two lineages of the introduced Asian freshwater clam *Corbicula* occur in North America. *The Journal of Molluscan Studies*(August issue) 66:423-429.
- Graf, D.L. and D. Ó Foighil. 2000. Molecular phylogenetic analysis of 28S rDNA supports a Gondwanan origin for Australasian Hyriidae (Mollusca: Bivalvia: Unionoidea). *Vie Milieu* 50:245-254.
- Ó Foighil, D. and C. Thiriot-Quévieux. 1999. Sympatric Australian *Lasaea* Species (Mollusca: Bivalvia) Differ in Their Ploidy Levels, Reproductive Modes and Developmental Modes. *Zoological Journal of the Linnean Society* 127:477-494.
- Ó Foighil, D., B.A. Marshall, T.J. Hilbish and M.A. Pino. 1999. Trans-Pacific range extension by rafting is inferred for the flat oyster *Ostrea chilensis*. *Biological Bulletin* 196:122-126.

- Ó Foighil, D. and C.J. Jozefowitz. 1999. Amphi-Atlantic phylogeography of direct-developing lineages of *Lasaea*, a genus of brooding bivalves. *Marine Biology* 135:115-122.
- Schneider, J.A. and D. Ó Foighil. 1999. Phylogeny of giant clams (Cardiidae: Tridacninae) based on partial mitochondrial 16S rDNA gene sequences. *Molecular Phylogenetics and Evolution* 13:59-66.
- Ó Foighil, D., P.M. Gaffney and T.J. Hilbish. 1998. Mitochondrial gene sequences support an Asian origin for the Portuguese oyster, *Crassostrea angulata* (Lamarck, 1819). *Marine Biology* 131:497-503.
- Jozefowicz, C.J. and D. Ó Foighil. 1998. Phylogenetic analysis of Southern Hemisphere flat oysters based on partial mitochondrial 16S rDNA gene sequences. *Molecular Phylogenetics and Evolution* 10:426-435.
- Ó Foighil, D., P.M. Gaffney and T.J. Hilbish. 1997. The Portuguese oyster is of Asian origin. *Journal of Shellfisheries Research* 16:p.329. (Abstract).
- Ó Foighil, D. and M.J. Smith. 1996. Phylogeography of an asexual marine clam complex, *Lasaea*, in the northeastern Pacific based on cytochrome oxidase III sequence variation. *Molecular Phylogenetics and Evolution* 6:134-142.
- Ó Foighil, D., T.J. Hilbish and R.S. Showman. 1996. Mitochondrial Gene Variation In *Mercenaria* Clam Sibling Species Reveals A Relict Secondary Contact Zone In The Western Gulf of Mexico. *Marine Biology* 126:675-683.
- Ó Foighil, D. and M.J. Smith. 1995. Evolution of asexuality in the cosmopolitan marine clam *Lasaea*. *Evolution* 49:140-150.
- Ó Foighil, D., P.M. Gaffney and T.J. Hilbish. 1995. Differences in mitochondrial 16S ribosomal gene sequences allow discrimination among American (*Crassostrea virginica* Gmelin) and Asian (*C. gigas* Thunberg, *C. ariakensis* Wakiya) oyster species. *Journal of Experimental Marine Biology and Ecology* 192:211-217.
- Sendall, K., A.R. Fontaine and D. Ó Foighil. 1995. Tube morphology and activity patterns related to feeding and tube building in the polychaete *Mesochaetopterus taylori*. Potts. *Canadian Journal of Zoology* 73:509-517.
- Reid, R.G.B., R. McMahon, D. Ó Foighil and R. Finnegan. 1992. Pedal-palp feeding in juvenile and adult bivalve molluscs. *Veliger*, 35:93-104.
- Ó Foighil, D. and C. Thiriot-Quévieux. 1991. Ploidy and pronuclear interaction of northeastern Pacific *Lasaea* clones. *Biological Bulletin* 181: 222-231.
- Ó Foighil, D., B. Kingsett, G. Ó Foighil and N. Bourne. 1990. Growth and survival of juvenile Japanese scallops, *Patinopecten yessoensis*, in nursery culture. *Journal of Shellfish Research* 9:135-144.

- Ó Foighil, D. 1989. Planktotrophic larval development is associated with a restricted geographic range in *Lasaea*, a genus of brooding hermaphroditic bivalves. *Marine Biology* 103:349-358.
- Ó Foighil, D. 1989. Role of spermatozeugmata in the spawning ecology of the brooding oyster *Ostrea edulis*. *Gamete Research* 24:219-228.
- Ó Foighil, D. 1988. Random mating and planktotrophic larval development in *Lasaea australis* Lamarck 1818. *Veliger* 31: 205-214.
- Ó Foighil, D. 1988. Global survey of developmental mode in the brooding bivalve *Lasaea*. *American Zoologist* 28:138A. (Abstract).
- Ó Foighil, D. and D.J. Eernisse. 1988. Geographically widespread, non-hybridizing, sympatric strains of the hermaphroditic, brooding clam *Lasaea* in the Northeastern Pacific Ocean. *Biological Bulletin* 175:218-229.
- Ó Foighil, D. 1987. Cytological evidence for self-fertilization in *Lasaea subviridis* (Galeommatacea: Bivalvia). *International Journal of Invertebrate Reproduction and Development* 12:83-90.
- Ó Foighil, D. and D.J. Eernisse. 1987. Phosphoglucosyltransferase allozyme evidence for an outcrossing reproductive mode in the hermaphroditic clam *Mysella tumida*. *Journal of Molluscan Studies* 53:223-228.
- Keegan, B.F., B.D.S. O'Connor, D. McGrath and D. Ó Foighil. 1987. Littoral and benthic investigations on the south coast of Ireland. 2. The macrobenthic fauna off Carnsore Point. *Proceedings of the Royal Irish Academy Section B* - 87: 1-14.
- Ó Foighil, D. 1986. Prodissoconch morphology is environmentally modified in the brooding bivalve *Lasaea subviridis*. *Marine Biology* 92:517-524
- McGrath, D. and D. Ó Foighil, 1986. Population dynamics and reproduction of hermaphroditic *Lasaea rubra*. *Ophelia* 25:209-219
- Gustafson, R.G., D. Ó Foighil and R.G.B. Reid. 1986. Early ontogeny of the septibranch bivalve *Cardiomya pectinata*. *Journal of the Marine Biological Association of the United Kingdom* 66:943-950.
- Ó Foighil, D. 1985. Fine structure of *Lasaea subviridis* and *Mysella tumida* sperm (Bivalvia: Galeommatacea). *Zoomorphology* 105:125-135.
- Ó Foighil, D. 1985. Sperm transfer and storage in the brooding bivalve *Mysella tumida*. *Biological Bulletin* 169:602-614.
- Ó Foighil, D. 1985. Form, function and origin of temporary dwarf males in *Pseudopythina rugifera* (Bivalvia: Galeommatacea). *Veliger* 27:72-80.

Ó Foighil, D. 1984. An unusual method of sperm transfer in the bivalve *Mysella tumida*. *American Zoologis*, 24:15a. (Abstract).

Ó Foighil, D. and A. Gibson. 1984. The morphology, ecology and reproduction of the commensal bivalve *Scintillona bellerophon* spec. nov. (Galeommatacea). *Veliger* 27:72-80.

Ó Foighil, D., D. McGrath, M.E. Conneely, B.F. Keegan and M. Costelloe. 1984. Population dynamics and reproduction of *Mysella bidentata* (Bivalvia: Galeommatacea) in Galway Bay, Irish West Coast. *Marine Biology* 81:283-291.

Research Grants (obtained at the University of Michigan)

2009 (pending) Supplement for NSF DBI 0447142 (see below) \$50000

2009-2012 NSF OCE-0850025 PI: D. Ó Foighil *Community phylogeny and phylogeography of the Neuston* \$380000 Grant will be activated this month (March 2009)

2009-10 National Geographic Society PI: D. Ó Foighil *Historical Ecology of the Neuston* \$21000

2008 OVPR faculty research award *Historical Ecology of the Neuston* \$11000

2008. Visiting Curatorship at the *Bailey-Matthews Shell Museum*, Sanibel, Florida \$2000

2005-2009 NSF DBI 0447142. PI: D. Ó Foighil. *Computerization of the University of Michigan Museum of Zoology Mollusk Collection* (Biological Research Collection Program: \$484000).

2004-2007 NSF DEB 0425984. PI: D. Ó Foighil. *Historical Phylogeny of Tahitian Land Snails: an almost Extirpated Land Snail Fauna* (Systematic Biology Program: \$300000)

2004-2006 National Academy Twinning Award. PI: D. Ó Foighil. *Towards a Comprehensive Phylogeny of Holarctic Sphaeriidae (Mollusca: Bivalvia): Systematics, Genome Amplification and Phylogeography.* (\$17000)

AMS 2003 Symposium Grants. As President of the American Malacological Society for 2002/3, and host of the 2003 meeting, I raised a total of \$16,000 (from NSF, USDA and University of Michigan sources) to sponsor 2 Symposia and 2 Special Sessions.

2001-2004 NSF OCE-0099084. PI: D. Ó Foighil. *Placing the Floridian Genetic Break for Nearshore Taxa into a Regional Phylogenetic Perspective Using Three Lineages of Marine Mussels.* (Biological Oceanography Program, \$338,474).

2002. U. M. Center of Japanese Studies Faculty Research Grant to determine source populations for exotic *Corbicula* and *Crassostrea* (\$5000)

Winter 2001. U.M. OVPR-funded Distinguished Faculty and Graduate Student Seminar *New Approaches to Interpreting the Genetic Structure of Populations*. (\$9000)

2000-2001 Michigan Memorial Grant to D. Ó Foighil. *Determining Reproductive Success in Endangered Freshwater Mussels With DNA Fingerprinting* (\$9500).

1997-2000. NSF OCE-9617689. PI: D. Ó Foighil. *Amphi-Atlantic Phylogeography of the Clam Genus Lasaea: a Test of Transoceanic Dispersal Hypotheses for a Direct-Developing Clonal Taxon* (Biological Oceanography Program, \$190000).

2002-2003 Royal Thai Jubilee Award with Dr. Samsak Panha (Dept. of Biological Science, Chulalongkorn University, Thailand). This enabled a Chulalongkorn graduate student, Piyoros Tongkead, to work in my lab (during the summers of 2000, 2001, 2002) on the molecular systematics of Thai microsnails endemic to isolated karst mountains. (\$20000).

1996-98. NSF-G-BIR-9626039. Co-PI: D. Ó Foighil. *Phylogenetic Reliability of Morphological Reductive Characters as Assessed by Molecular Phylogenetics of the Molluscan Family Cardiidae*. Awarded to Dr. Jay Schneider as 2 year Sloan/N.S.F. postdoctoral fellowship in Molecular Evolution (\$80,000). I co-wrote this grant proposal with Dr. Schneider.

1997-9. Committee for Research and Exploration of the National Geographic Society to D. Ó Foighil. *Phylogeography of the Clam Genus Lasaea* (\$21 056).

1997-8. Korean Science and Engineering Foundation (KOSEF) post-doctoral fellowship awarded to Dr. Joong-Ki Park to study “Molecular Phylogenetic of Freshwater Heterodont Bivalves”. I co-wrote this grant proposal with Dr. Park. (\$18000)

1997. In association with graduate student Renée Sherman, a 1997 Michigan Natural Heritage Grant was obtained to support her field work (\$4000).

1996-7 U.M. Rackham Faculty Research Grant to D. Ó Foighil (\$13000)

1996 U.M. OVPR/Rackham Spring/Summer Research Grant was obtained for student support (\$2000).

Invited Seminars and Symposium Presentations. (1999 onwards)

Does not include regular meeting presentations, or the time period 2007/8 when I did not travel to give presentations due to serial illness of parents.

2008. *Bailey-Matthews Shell Museum*, Sanibel, Florida

2005. Seminar speaker at the Dept. of Zoology, Field Museum of Natural History, Chicago.
- 2005 Organizer and speaker at the *Pacific Island Land Snail Biodiversity: Origins and Conservation* symposium at the 2005 American Malacological Society meeting in Asilomar, California
2004. Participant in the *Biodiversity of Marine Mollusks* symposium at the 2004 American Malacological Society meeting in Sanibel, Florida
2004. Seminar on molluscan evolution at Chulalongkorn University (Bangkok, Thailand) Biology Dept.
2003. As president of the American Malacological Society, I hosted the 2003 meeting in Ann Arbor and organized the symposia therein, participating in 2.
(<http://erato.acnatsci.org/ams/meetings/archives/2003/web/index.html>)
- 2003 Symposium speaker for 100th anniversary celebrations of the Friday Harbor Laboratories (<http://depts.washington.edu/fhl/centsymp/index.html>): *Impacts of Instruction: How Courses and Mentoring at the Friday Harbor Laboratories Have Influenced Biological Research and Education.*
2003. Participant in *Phylogeography of the North Atlantic* symposium of the 3rd European Phycology Congress, Belfast, Northern Ireland
2002. CORONA conference participant and member of the Steering Committee, Shoals Marine Lab, Maine
2002. Participant in the *International Marine Bivalve Workshop*, Florida Keys Marine Laboratory.
2002. Participant in *Multidisciplinary Approaches to Molluscan Phylogeny* Special Session at the 2002 American Malacological Society meeting, Charleston, SC
2001. Dept. of Biology seminar, New Mexico State University, Las Cruces
2001. Dept. of Fisheries and Aquatic Sciences seminar, University of Florida, Gainesville
2000. Participant in *Detection of ancestral Asexual Lineages* Symposium, annual meeting of the Mycological Society of America in Vermont.
1999. Participant in *Molluscan Genetics* Symposium, 65th annual meeting of the American Malacological Society, Pittsburgh, Pennsylvania.