

David Haig (Curriculum vitae)

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Date of Birth: 28th June, 1958

Citizenship: Australia/USA

Education

- 1984-1989 Graduate student (part-time); Macquarie University
Ph. D. in Biology
Thesis title: Applications of allocation and kinship models to the interpretation of vascular plant life cycles (Supervisor: Mark Westoby)
- 1980-1981 B. Sc. Hons (First Class) in Biology
Thesis title: Stabilising selection on abdominal bristle number in *Drosophila melanogaster*. (Supervisor: Richard Frankham)
- 1977-1979 Bachelor of Science, Macquarie University, Sydney

Employment

- 2004-present George Putnam Professor of Organismic and Evolutionary Biology, Harvard University
- 2005-2012 Harvard College Professor
- 2002-2004 Professor of Organismic and Evolutionary Biology, Harvard University
- 1999-2002 Associate Professor of Organismic and Evolutionary Biology,
Harvard University
- 1995-1999 Assistant Professor of Organismic and Evolutionary Biology,
Harvard University
- 1992-1995 Junior Fellow, Society of Fellows, Harvard University
- 1990-1992 Royal Society Endeavour Fellow,
Department of Plant Sciences, University of Oxford.
Junior Research Fellow, St John's College, Oxford
- 1985-1989 Assistant Lecturer, School of Biological Sciences, Macquarie University

1984 Tutor in Ecology, Macquarie University
1982-1983 Clerk, N.S.W. Public Service
1981 Research Assistant, Royal Botanic Gardens, Sydney
1980 Tutor in Genetics, Macquarie University

Awards

2010 Fellow of the American Academy of Arts and Sciences
1994 Dobzhansky Prize, Society for the Study of Evolution

Papers

Haig, D. (2015) Maternal-fetal conflict, genomic imprinting, and mammalian vulnerabilities to cancer. *Philosophical Transactions of the Royal Society of London B* 370: 20140178.

Haig, D. (2015) *Coleochaete* and the origin of sporophytes. *American Journal of Botany* 102: 417–422.

Duñez-Guzmán, E. A. and Haig, D. (2014) The evolution of reproduction-related *NLRP* genes. *Journal of Molecular Evolution* 78: 194–201.

Haig, D. (2014) Fighting the good cause: meaning, purpose, difference, and choice. *Biology & Philosophy* 29: 675–697.

Haig, D. (2014) Coadaptation and conflict, misconception and muddle, in the evolution of genomic imprinting. *Heredity* 113: 96–103.

Haig, D. (2014) Troubled sleep: night waking, breastfeeding, and parent–offspring conflict. *Evolution, Medicine, and Public Health* 2014: 32–39.

Haig, D. (2014) Interbirth intervals: intrafamilial, intragenomic, and intrasomatic conflict. *Evolution, Medicine, and Public Health* 2014: 12–17.

Haig, D., Úbeda, F. and Patten, M. (2014) Specialists and generalists: the sexual ecology of the genome. *Cold Spring Harbor Perspectives in Biology* 6: a017525.

Marmoset Genome Sequencing and Analysis Consortium. (2014) The common marmoset genome provides insight into primate biology and evolution. *Nature Genetics* 46: 850–857.

Haig, D. (2013) Kin conflict in seed development: an interdependent but fractious collective. *Annual Review of Cell and Developmental Biology* 29: 189–211.

Haig, D. (2013) Imprinted green beards: a little less than kin and more than kind. *Biology Letters* 20130199.

Haig, D. (2013) Filial mistletoes: the functional morphology of moss sporophytes. *Annals of Botany* 111: 337–345.

Patten, M. M., Úbeda, F. & Haig, D. (2013) Sexual and parental antagonism shape genomic architecture. *Proceedings of the Royal Society of London* 280: 20131795.

- Haig, D. (2012) Sarah and Constant Broyer, pharmacist and physician, of Carlton. *Victorian Historical Journal* 83: 178–196.
- Haig, D. (2012) Retroviruses and the placenta. *Current Biology* 22: R609–R613.
- Haig, D. (2012) The strategic gene. *Biology & Philosophy* 27: 461–479.
- Haig, D. (2011) Genomic imprinting and the evolutionary psychology of human kinship. *Proceedings of the National Academy of Sciences, USA* 108: 10878-10885.
- Haig, D. (2011) Sympathy with Adam Smith and reflexions on self. *Journal of Economic Organization and Behavior* 77: 4-13.
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- Patten, M. M., Haig, D. & Úbeda, F. (2010) Fitness variation due to sexual antagonism and linkage disequilibrium. *Evolution* 64: 3638-3642.
- Gregg, C., Zhang, J., Butler, J. E., Haig, D. & Dulac, C. (2010) Sex-specific parent-of-origin allelic expression in the mouse brain. *Science* 329: 682-685.
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- Haig, D. (2010) What do we know about charophyte (Streptophyta) life cycles? *Journal of Phycology* 46: 860-867.
- Haig, D. (2010) Games in tetrads: segregation, recombination, and meiotic drive. *American Naturalist* 176: 404-413.
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- Patten, M. M. & Haig, D. (2009) Maintenance or loss of genetic variation under sexual and parental antagonism at a sex-linked locus. *Evolution* 63: 2888-2895.
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- Patten, M. M. & Haig, D. (2008) Reciprocally imprinted genes and the response to selection on one sex. *Genetics* 179: 1389-1394.
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- Haig, D. (2006) Self-imposed silence: parental antagonism and the evolution of X-chromosome inactivation. *Evolution* 60: 440-447.
- Haig, D. (2006) Intragenomic politics. *Cytogenetic and Genome Research* 113: 68-74.
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- Haig, D. (2005) The complex history of distal human chromosome 1q. *Genomics* 86: 767-770.
- Brandvain, Y. & Haig, D. (2005) Divergent mating systems and parental conflict as a barrier to hybridization in flowering plants. *American Naturalist* 166: 330-338.
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- Mix, L. J., Haig, D. & Cavanaugh, C. M. (2005) Phylogenetic analyses of the core antenna domain: investigating the origin of photosystem I. *Journal of Molecular Evolution* 60: 153-163.
- Úbeda, F. & Haig, D. (2005) On the evolutionary stability of Mendelian segregation. *Genetics* 170: 1345-1357.
- Yuan, H.-T., Haig, D. & Karumanchi, S. A. (2005) Angiogenic factors in the pathogenesis of preeclampsia. *Current Topics in Developmental Biology* 71: 297-312.
- Haig, D. (2004) The (dual) origin of epigenetics. *Cold Spring Harbor Symposia on Quantitative Biology* 69: 67-70.
- Haig, D. (2004) Genomic imprinting and kinship: how good is the evidence? *Annual Review of Genetics* 38: 553-585.
- Úbeda, F. & Haig, D. (2004) Sex-specific meiotic drive and selection at an imprinted locus. *Genetics* 167: 2083-2095.
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- Haig, D. (1999) Asymmetric relations: internal conflicts and the horror of incest. *Evolution and Human Behavior* 20: 83-98.
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- Haig, D. (1997) Maternal-fetal interactions and MHC polymorphism. *Journal of Reproductive Immunology* 35: 101-109.

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- Haig, D. & Grafen, A. (1991) Genetic scrambling as a defence against meiotic drive. *Journal of Theoretical Biology* 153: 531-558.
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- Haig, D. & Westoby, M. (1989) Parent-specific gene expression and the triploid endosperm. *American Naturalist* 134: 147-155.
- Haig, D. & Westoby, M. (1988) On limits to seed production. *American Naturalist* 131: 757-759.
- Haig, D. & Westoby, M. (1988) Sex expression in homosporous ferns: an evolutionary perspective. *Evolutionary Trends in Plants* 2: 111-119.
- Haig, D. & Westoby, M. (1988) A model for the origin of heterospory. *Journal of Theoretical Biology* 134: 257-272.
- Haig, D. (1987) Kin conflict in seed plants. *Trends in Ecology and Evolution* 2: 337-340.
- Haig, D. (1986) Conflicts among megaspores. *Journal of Theoretical Biology* 123: 471-480.

Letters, Commentaries, and other writings

- Haig, D. (2015) Q&A David Haig. *Current Biology* 25: R700-R702.
- Haig, D. (2014) Frugal fat or munificent muscle: genomic imprinting and metabolism. *BMC Biology* 12: 772.
- Haig, D. (2014) Review of *Sex Itself* by Sarah S. Richardson. *Quarterly Review of Biology* 89: 399-400.
- Haig, D. (2014) Sexual selection: placentation, superfetation, and coercive copulation. *Current Biology* 24: R805-R808.
- Haig, D. (2014) Does microchimerism mediate kin conflicts? *Chimerism* 5: 2.
- Haig, D. (2014) Troubled sleep: a response to commentaries. *Evolution, Medicine, and Public Health* 2014: 57-62.
- Haig, D. (2014) Genetic dissent and individual compromise. *Biology & Philosophy* 29: 233-239.
- Haig, D. (2013) Genomic vagabonds: endogenous retroviruses and placental evolution. *Bioessays* 35: 845-846.
- Haig, D. (2013) Review of *Evolutionary perspectives on pregnancy*. By John C. Avise. *Animal Behaviour* 86: 660.
- Haig, D. (2013) Proximate and ultimate causes: How come? And What for? *Biology & Philosophy* 28: 781-786.
- Haig, D. (2012) The epidemiology of epigenetics. *International Journal of Epidemiology* 41: 13-16.
- Haig, D. (2011) Lamarck ascending! *Philosophy & Theory in Biology* 3: e204.
- Haig, D. and Úbeda, F. (2011) An obsession with depilatory mice. *Current Biology* 21: R257-R259.

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- Karumanchi, S. A. & Haig, D. (2008) Flt1, pregnancy, and malaria: evolution of a complex interaction. *Proceedings of the National Academy of Sciences, USA* 105: 14243-14244.
- Haig, D. (2008) Kinship asymmetries and the divided self. *Behavioral and Brain Sciences* 31: 271-272.
- Haig, D. (2008) Huddling: brown fat, genomic imprinting, and the warm inner glow. *Current Biology* 18: R172–R174.
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Book and book chapters

- Haig, D. (2010) The huddler's dilemma: a cold shoulder or a warm inner glow. Pages 107–109, in T. Székely, A. J. Moore and J. Komdeur, eds. *Social behaviour: genes, ecology and evolution*. Cambridge University Press, Cambridge.
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- Haig, D. (2006) The gene meme. Pages 50–65, in *Richard Dawkins. How a scientist changed the way we think*. A. Grafen & M. Ridley (eds.) Oxford University Press, Oxford.
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- Westoby, M., Rice, B., Shelley, J. M., Haig, D. and Kohen, J. L. (1982) Plants' use of ants for dispersal at West Head, New South Wales. *Ant-plant interactions in Australia*. R. C. Buckley, ed. pp. 75-87. Dr W. Junk Publishers, The Hague.

Articles in press

- Haig, D. (2015) Sleeping Beauty in a grain of rice. *Biology & Philosophy* in press.
- Haig, D. (2015) Sameness, novelty, and nominal kinds. *Biology & Philosophy* in press.
- Haig, D. (2015) Going retro: transposable elements, embryonic stem cells, and the mammalian placenta. *Bioessays* in press.

Former graduate students

Lucas Mix (PhD 1998–2004)	Church Divinity School of the Pacific Episcopal chaplain, University of Arizona, Tucson
Jon Wilkins (PhD 1998–2002)	Harvard Junior Fellow 2002-2005 Santa Fe Institute 2005–2012 Ronin Institute 2012–
Francisco Úbeda (PhD –2004)	Junior Research Fellow, St. John’s College, Oxford 2004-2007 Assistant Professor, University of Tennessee 2007- Senior Lecturer, University of London (Royal Holloway)
Manus Patten (PhD 2002–2008)	Preceptor in Biology, Harvard University Lecturer, Georgetown University
Wenfei Tong (PhD –2013)	Post-doctoral fellowship, University of Cambridge
Adrian Young (PhD –2014)	Rollins College, Department of Biology, Winter Park FL