

9 Prof. Douglas H. Erwin



Name: Douglas H. Erwin

Organization: Smithsonian Institution National Museum of Natural History

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Education

Ph.D. University of California, Santa Barbara, 1985

A.B. Colgate University, 1980

Research Interests

Evolutionary transitions and evolutionary innovation

Services

Associate, Earth Systems History Program, Canadian Institute for Advanced Research

Part-Time resident faculty, Santa Fe Institute. <http://www.santafe.edu/> and Chair, Science Steering Committee

Honorary member, Academic Committee, Laboratory of Earth Surface System (China Univ. Geosciences), P. R. China.

Committee Responsibilities and Professional Activities

Member, Board of Reviewing Editors, *Science*, Oct. 2003-

Member, Faculty of Evolutionary Biology, Faculty of 1000, (www.facultyof1000.com), 2003-

Member of Editorial Board, *Geobiology*, 2003-

Member of Editorial Board, *Journal of China Univ. Geosciences*, 2003-

Member of Editorial Board, *Journal of Systematic Palaeontology*, 2003-

Member of Editorial Board, *American Naturalist*, 2002-

Member of Editorial Board, *Evolution & Development*, 1999-

Co-Editor, *Paleobiology*, 1995-2001

Major Publications

Erwin, Douglas H. 2016. Eric, evolution and bodyplans, *Developmental biology*,

Erwin, Douglas H. 2015. Was the Ediacaran–Cambrian radiation a unique evolutionary event?, *Paleobiology*, 41(01):1-15

Erwin, Douglas H. 2015. A public goods approach to major evolutionary innovations, *Geobiology*, 13(4):308-315

Erwin, Douglas H. 2015. Eric Davidson (1937–2015), *Science*, 350(6260):517

Erwin, Douglas H. 2015. Novelty and Innovation in the History of Life, *Current Biology*, 25(19)

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- Erwin, Douglas H. 2015. Eric Davidson (1937–2015), *Current Biology*, 25(20):R968-R969
- Erwin, Douglas H. 2015. Early metazoan life: divergence, environment and ecology, *Philosophical Transactions of the Royal Society B: Biological Sciences*, 370(1684):20150036
- Simpson, Carl and Erwin, Douglas H. 2014. Homology, Genes, and Evolutionary Innovation, *Science*, 344(6189):1234-1235
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- Erwin, Douglas H. 2011. A Paleontological Look at History, *Cliodynamics*, 2(1):27-39
- Erwin, Douglas H. 2011. Evolutionary uniformitarianism, *Developmental biology*, 357(1):27-34
- Erwin, Douglas H. 2011. Macroevolution: Dynamics of Diversity, *Current Biology*, 21(24):R1000-R1001
- Erwin, Douglas H. and Tweedt, Sarah M. 2011. Ecological drivers of the Ediacaran-Cambrian diversification of Metazoa, *Evolutionary Ecology*, 26(2):417-433
- Erwin, Douglas H. 2011. Novelty that change carrying capacity, *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 318(6):460-465
- Erwin, Douglas H. 2009. A call to the custodians of deep time, *Nature*, 462(7271):282-283
- Davidson, E. H. and Erwin, Douglas H. 2009. An Integrated View of Precambrian Eumetazoan Evolution, *Cold Spring Harbor Symposia on Quantitative Biology*, 74:65-80
- Davidson, Eric H. and Erwin, Douglas H. 2009. Evolutionary innovation and stability in animal gene networks, *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 314B(3):182-186
- Olszewski, Thomas D. and Erwin, Douglas H. 2009. Change and Stability in Permian Brachiopod Communities from Western Texas, *Palaios*, 24(1):27-40
- Krakauer, D. C., Page, K. and Erwin, Douglas H. 2009. Diversity, dilemmas and monopolies of niche construction, *The American Naturalist*, 173:26-40
- Erwin, Douglas H. and Davidson, E. H. 2009. The evolution of hierarchical gene regulatory networks, *Nature Reviews Genetics*, 10:141-148
- Erwin, Douglas H. 2009. Early origin of the bilaterian developmental toolkit, *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 364(1527):2253-2261
- Erwin, Douglas H. 2009. Climate as a Driver of Evolutionary Change, *Current Biology*, 19(14):R575-R583
- Erwin, Douglas H. 2009. La terre en pleines transformations, *La Recherche*, 428:39-42
- Erwin, Douglas H. 2008. Macroevolution of ecosystem engineering, niche construction and diversity, *Trends in Ecology & Evolution*, 23(6):304-310
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