

## CURRICULUM VITAE

### **Stephen R. Palumbi**

b. October 17, 1956 - Baltimore, MD USA

### ***Education***

1974-1978 The Johns Hopkins University, Baltimore, MD, B.A. Biology  
1978-1984 University of Washington, Seattle, WA, PhD Zoology

### ***Employment***

1985-1990 Assistant Professor, Department of Zoology, University of Hawaii  
1990-1994 Associate Professor, Department of Zoology, University of Hawaii  
1994-1996 Professor, Department of Zoology, University of Hawaii  
1995-1996 Director, Kewalo Marine Lab, University of Hawaii  
1996-2002 Professor, Department of Organismic and Evolutionary Biology,  
Harvard University  
2002- Professor, Dept. Biological Sciences, Stanford University  
2008- Director, Hopkins Marine Station, Stanford University

### ***Academic Honors***

1978-1981 National Science Foundation Pre-doctoral Fellowship  
1983 ARCS Foundation Fellowship  
1984 Buell Award, Ecological Society of America  
1990 Matsuda Fellowship Award for Faculty Research  
1991 University of Hawaii Regents Medal for Excellence in Research  
1996 Pew Fellowship for Marine Conservation Research  
2003 Elected Fellow California Academy of Sciences  
2007 Harold A. Miller Director of the Hopkins Marine Station  
2009 Jane and Marshall Steel Chair of Biology  
2010 Peter Benchley Award for Science

### ***Memberships***

1997 National Research Council Committee on Marine Biodiversity  
2001 NRC Committee on Sustainable Fishing  
2003 NRC Committee on the National Ecological Observatory Network

### ***Editorships***

1996-1999 Evolution  
1996-1998 American Naturalist  
1998- 2003 Molecular Biology and Evolution  
2003 Special Issue of Ecological Applications  
2006- Molecular Ecology

### ***Boards of Directors***

2002-	BioERA
2006-	Sea Change Investments
2007-	The Ocean Conservancy
2007-	Island Press
2009-	American Genetic Association

### ***Publications***

Jackson, J. B. C. and S. R. Palumbi. 1979. Regeneration and partial predation in cryptic coral reef environments: Preliminary experiments on sponges and ectoprocts. In *Biology of Sponges*, C. Levi and N. Boury-Esnault, Eds. CNRS, Paris pp. 303-308.

Palumbi, S. R., B. D. Sidell, R. Van Beneden, G. D. Smith, and D. A. Powers. 1980. Glucosephosphate isomerase (GPI) of the teleost *Fundulus heteroclitus* (Linnaeus): Isozymes, allozymes and their physiological roles. *J. Comp. Physiol. B* 138: 49-57.

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Palumbi, S. R. 1984. Measuring intertidal wave forces. *J. Exp. Mar. Biol. Ecol.* 81: 171-179.

Takahata, N. and S. R. Palumbi. 1984. Extranuclear differentiation and gene flow in the finite island model. *Genetics* 109: 446-457.

Grosberg, R. K., W. R. Rice, and S. R. Palumbi. 1985. Graft compatibility and clonal identity in invertebrates. *Science* 229: 487-489.

Palumbi, S.R. 1985. Spatial variation in an algal-sponge commensalism and the evolution of ecological interactions. *Am. Nat.* 126: 267-274.

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- Kay, E. A. and S.R. Palumbi. 1987. Evolution and endemism in Hawaiian marine invertebrates. *Trends in Ecology and Evolution* 2: 183-186.
- Palumbi, S. R. and L. A. Freed. 1988. Agonistic interactions in a keystone predatory starfish. *Ecology* 69: 1624-1627.
- Palumbi, S. R. 1989. Rates of molecular evolution and the proportion of nucleotide positions free to vary. *J. Molec. Evol.* 29: 180-187.
- Palumbi, S. R. and A. C. Wilson. 1990. Mitochondrial DNA diversity in the sea urchins *Strongylocentrotus purpuratus* and *S. droebachiensis*. *Evolution* 44: 403-415.
- Martin, A. P., B. D. Kessing, and S. R. Palumbi. 1990. Accuracy of determining genetic distance between species from short sequences of mitochondrial DNA. *Mol. Biol. Evol.* 7: 485-488.
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- Palumbi, S. R. and E. Metz. 1991. Strong reproductive isolation in closely related tropical sea urchins (genus *Echinometra*). *Molec. Biol. Evol.* 8: 227-239.
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- Metz, E. C., H. Yanagimachi, and S. R. Palumbi. 1991. Gamete compatibility and reproductive isolation of closely related Indo-Pacific sea urchins, genus *Echinometra*. In *Proceedings of the 7<sup>th</sup> International Echinoderm Conference*. Balkema Press, Rotterdam pp. 131-138.
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- Palumbi, S. R. 1992. Marine speciation on a small planet. *Trends in Ecology and Evolution* 7: 114-117.
- McMillan, W. O., R. A. Raff, and S. R. Palumbi. 1992. Population genetic consequences of developmental evolution and reduced dispersal in sea urchins (genus *Heliocidaris*). *Evolution* 46: 1299-1312.
- Martin, A. P., R. Humphreys, and S. R. Palumbi. 1992. Population genetic structure of the Armorhead, *Pseudopentaceros wheeleri*, in the North Pacific Ocean: Application of the Polymerase chain reaction to fisheries problems. *Can. J. Fish. Aquat. Sci.* 49: 2386-2391.
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- Hare M. P., F. Cipriano, and S. R. Palumbi. 2002. Genetic evidence on the demography of speciation in allopatric dolphin species. *Evolution* 56: 804-816.
- Barber, P. H., S. R. Palumbi, M.V. Erdmann, and M. K. Moosa. 2002. Sharp genetic breaks among populations of *Haptosquilla pulchella* (Stomatopoda) indicate limits to larval transport: patterns, causes, and consequences. *Molecular Ecology* 11: 659-674.
- Barber, P., M. K. Moosa, and S. R. Palumbi. 2002. Rapid recovery of stomatopod populations on Krakatau: temporal and spatial scales of marine larval dispersal. *Proc. Roy. Soc. London* 269: 1591-1597.
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Biermann, C. H., B. D. Kessing, and S. R. Palumbi. 2003. Phylogeny and development of marine model species: stronglycentrotid sea urchins. *Evolution & Development* 5: 360-371.

Gerber, L. R., L. W. Botsford, A. Hastings, H. P. Possingham, S. D. Gaines, S. R. Palumbi, and S. Andelman. 2003. Population models for marine reserve design: A retrospective and prospective synthesis. *Ecological Applications* 13: S47-S64.

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Neafsey, D. E. and S. R. Palumbi. 2003. Genome size evolution in pufferfish: A comparative analysis of diodontid and tetraodontid pufferfish genomes. *Genome Research* 13: 821-830.

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Palumbi, S. R., S. D. Gaines, H. Leslie, and R. R. Warner. 2003. New wave: high-tech tools to help marine reserve research. *Frontiers in Ecology and the Environment* 1: 73-79.



Roman, J. and S. R. Palumbi. 2003. Whales before whaling in the North Atlantic. *Science* 301: 508-510.

Palmer, M., E. Bernhardt, E. Chornesky, S. Collins, A. Dobson, C. Duke, B. Gold, R. Jacobson, S. Kingsland, R. Kranz, M. Mappin, M. L. Martinez, F. Micheli, J. Morse, M. Pace, M. Pascual, S. Palumbi, O. J. Reichman, A. Simons, A. Townsend, and M. Turner. 2004. Ecology for a crowded planet. *Science* 304: 1251-1252.

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### **Films to enhance science communication**

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2003 The reef is green, Garthwaite and Griffin Films (microdocumentary on reef conservation)

2004 Resilience on the reef, Garthwaite and Griffin Films/Short Attention Span Science Theater (microdocumentary )

2004 The Secret Lives of Whales, Microdocumentary for AAAS 2005.

2005 Short Attention Span Science Theatre – web based microdocumentary project at <http://www.stanford.edu/group/Palumbi/microdocs.html>

2007 Planet Without People, History Channel

2007 The Once and Future Gray Whales, microdocumentary

2007 Sustainability: The ecology of forever - 30+ microdocumentaries in metadocumentary framework. <http://microdocs.stanford.edu>

2009 Big Blue: The natural history of blue whales, National Geographic Films

2010 One Ocean: CBC Nature of Things

2010 End of the Line, Full length film

2012 Ocean Babies on Acid: KQED, San Francisco



2012 California's Deep water coral reefs: KQED, San Francisco