

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

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

Memberships

1981- Ecological Society of America
1984- American Society of Naturalists
1985- Society for the Study of Evolution
1991- Sigma Xi
1994- Society for Molecular Biology and Evolution
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

Publications

- 1979 Jackson, J.B.C. and S.R. Palumbi. 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.
- 1980 Palumbi, S.R., B.D. Sidell, R. Van Beneden, G.D. Smith, and D.A. Powers, Glucosephosphate isomerase (GPI) of the teleost *Fundulus heteroclitus* (Linnaeus): Isozymes, allozymes and their physiological roles. J. Comp. Physiol. B 138: 49-57.
- 1981 Palumbi, S.R. and J.B.C. Jackson. Intracolony gradients and zooid senescence in two bryozoa from cryptic reef environments. In Recent and Fossil Bryozoa, G.P. Larwood and C. Nielson, Eds., Olsen and Olsen, Copenhagen, p. 315.
- 1982 Palumbi, S.R. and B.A. Johnson. A note on the influence of life history stage on metabolic adaptation: The responses of *Limulus* eggs and larvae to hypoxia. In Physiology and Biology of Horseshoe Crabs. J. Bonaventura, C. Bonaventura, and S. Tesh, Eds., A.R. Liss, Press, NY. pp. 115-124.
- 1982 Palumbi, S.R. and J.B.C. Jackson. Ecology of cryptic coral reef communities II, Recovery from small disturbance events by encrusting bryozoa: The influence of "host" species and lesion size. J. exp. mar. Biol. Ecol. 64: 103-115.
- 1983 Palumbi, S.R. and J.B.C. Jackson. Aging in modular organisms: Ecology of zooid senescence in *Steginoporella* sp. (Bryozoa: Cheilostomata) Biol. Bull. 164:267-278.
- 1984 Palumbi, S.R. Tactics of acclimation: Morphological changes of sponges in an unpredictable environment. Science 225: 1478-1480.
- 1984 Palumbi, S.R. Measuring intertidal wave forces. J. exp. mar. Biol. Ecol. 81:171-179.
- 1984 Takahata, N. and S.R. Palumbi. Extranuclear differentiation and gene flow in the finite island model. Genetics 109:446-457.
- 1985 Grosberg, R.K., W.R. Rice, and S.R. Palumbi. Graft compatibility and clonal identity in invertebrates. Science 229:487-489.
- 1985 Palumbi, S.R. Spatial variation in an algal-sponge commensalism and the evolution of ecological interactions. Am. Nat. 126:267-274.
- 1985 Wilson, A.C., R. L. Cann, S. Carr, M. George, U. Gyllensten, K. Helm-Bychowski, R. Higuchi, S. R. Palumbi, E. Prager, R. D. Sage, and M. Stoneking. Mitochondrial DNA and two perspectives on evolutionary genetics. Biol. J. Linn. Soc. 26:375-400.
- 1986 Palumbi, S.R. Ecological importance of body plan limitations: Structural responses of a demosponge to wave force. Ecology, 67:208-214.

- 1987 Kay, E.A. and S.R. Palumbi. Evolution and endemism in Hawaiian marine invertebrates. Trends in Ecology and Evolution. 2:183-186.
- 1988 Palumbi, S.R. and L.A. Freed. Agonistic interactions in a keystone predatory starfish. Ecology 69:1624-1627.
- 1989 Palumbi, S.R. Rates of molecular evolution and the proportion of nucleotide positions free to vary. J. Molec. Evol. 29:180-187.
- 1990 Palumbi, S.R. and A.C. Wilson. Mitochondrial DNA diversity in the sea urchins *Strongylocentrotus purpuratus* and *S. droebachiensis*. Evolution 44:403-415.
- 1990 Martin, A.P., B.D. Kessing, and S.R. Palumbi. Accuracy of determining genetic distance between species from short sequences of mitochondrial DNA. Mol. Biol. Evol. 7:485-488.
- 1990 Baker, C.S., S.R. Palumbi, R.H. Lambertsen, M.T. Weinrich, J. Calambokidis and S.J. O'Brien. The influence of seasonal migration on the geographic structure of mitochondrial DNA variation in humpback whales (*Megaptera novaeangliae*). Nature 344:238-240.
- 1991 Palumbi, S.R. and E. Metz. Strong reproductive isolation in closely related tropical sea urchins (genus *Echinometra*). Molec. Biol. Evol. 8:227-239.
- 1991 Palumbi, S.R., A.P. Martin, B.D. Kessing, W.O. McMillan. Detecting population structure using mitochondrial DNA. In Genetic Ecology of Whales and Dolphins, A.R. Hoelzel (Ed.) International Whaling Commission, Cambridge, U.K. pp. 271-278.
- 1991 Palumbi, S.R. and J. Benzie. Large mitochondrial DNA differences between morphologically similar Penaeid shrimp. Molec. Mar. Biol. Biotech. 1:27-34.
- 1991 Metz, E.C., H. Yanagimachi, and S.R. Palumbi. Gamete compatibility and reproductive isolation of closely related Indo-Pacific sea urchins, genus *Echinometra*. In Proceedings of the 7th International Echinoderm Conference. Balkema Press, Rotterdam. pp. 131-138.
- 1991 Palumbi, S.R. and B.D. Kessing. Population biology of the trans-Arctic exchange: mtDNA sequence similarity between Pacific and Atlantic sea urchins. Evolution 45:1790-1805.
- 1991 Croom, H.B., R.G. Gillespie, and S.R. Palumbi. Mitochondrial DNA sequences coding for a portion of the RNA of the small ribosomal subunits of *Tetragnatha mandibulata* and *Tetragnatha hawaiiensis* (Araneae, Tetragnathidae). J. Arachnology 19:210-214.
- 1992 Martin, A.P., G.J. Naylor, and S.R. Palumbi. Rates of mitochondrial DNA evolution in sharks are slow compared with mammals. Nature 357:153-155.
- 1992 Palumbi, S.R. Marine speciation on a small planet. Trends in Ecology and Evolution 7:114-117.

- 1992 McMillan, W.O., R.A. Raff, and S.R. Palumbi. Population genetic consequences of developmental evolution and reduced dispersal in sea urchins (genus *Heliocidaris*). Evolution 46:1299-1312.
- 1992 Martin, A.P., R. Humphreys, and S.R. Palumbi. 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.
- 1993 Martin, A.P. and S.R. Palumbi. Body size, metabolic rate, generation time and the molecular clock. Proc. Nat. Acad. Sci. 90:4087-4091.
- 1993 Martin, A.P. and S.R. Palumbi. Protein evolution in different cellular environments: cytochrome b in sharks and mammals. Molec. Biol. Evol. 10:873-891.
- 1993 Baker, C.S., A. Perry, J.L. Bannister, M.T. Weinrich, R.B. Abernethy, J. Calambokidis, J. Lien, R.H. Lambertsen, J. Urban R., O. Vasquez, P.J. Clapham, A. Alling, U. Arnason, S.J. O'Brien, and S.R. Palumbi. Abundant mitochondrial DNA variation and world-wide population structure in humpback whales. Proc. Nat. Acad. Sci. 90:8239-8243.
- 1993 Baker, C.S., M.T. Weinrich, G. Early and S.R. Palumbi. Genetic impact of an unusual group mortality among humpback whales. Journal of Heredity. 85:52-54.
- 1993 Bowman, B. and S.R. Palumbi. Rapid production of single stranded sequencing template from amplified DNA using magnetic beads. In Methods in Enzymology, E. Zimmer, T. White, R. Cann, and A. C. Wilson , Eds. vol. 224:399-405.
- 1993 Gillespie, R.G., H.B. Croom, and S.R. Palumbi. Multiple origins of a spider radiation in Hawaii. Proc. Nat. Acad. Sci. 91:2290-2294.
- 1994 Palumbi, S.R. and C.S. Baker. Contrasting populations structure from nuclear intron sequences and mtDNA or humpback whales. Molecular Biology and Evolution 11:426-435.
- 1994 Metz, E.C., R.E. Kane, H. Yanagimachi, and S.R. Palumbi. Specificity of gamete binding and early stages of fusion in closely related sea urchins (genus *Echinometra*). Biol. Bull. 187: 23-34.
- 1994 Baker, C.S. and S. R. Palumbi. Which whales are hunted? Molecular genetic evidence for illegal whaling. Science 265:1538-1539.
- 1994 Palumbi, S.R. Genetic divergence, reproductive isolation and speciation in the sea. Ann. Rev. Ecol. Syst. 25:547-572.
- 1995 Palumbi, S. R. Using genetics as an indirect estimator of larval dispersal. in L. McEdward, Ed. Larval Ecology, CRC Press. pp. 369-386.
- 1995 Butman, C. A., Carlton, J. and S. R. Palumbi. Waiting for a whale: Effects of whaling on deep sea biodiversity. Conservation Biology, 9:462-464.

- 1995 W. O. McMillan and S. R. Palumbi. Concordant evolutionary patterns among Indo-West Pacific Butterfly fish. *Proc. Roy. Soc. (Lond) B* 260:229-236.
- 1996 Palumbi, S.R. PCR and molecular systematics. in *Molecular Systematics, 2 ed.* D. Hillis, C. Moritz, and B. Mable. eds. Sinauer Press. pp. 205-247.
- 1996 Baker, C. S. and S. R. Palumbi. Population structure, Molecular systematics and forensic identification of whales and dolphins. in J. C. Avise and J. L. Hamrick, eds. *Conservation Genetics: Case Histories from Nature.* Chapman and Hall, pp. 10-49.
- 1996 Palumbi, S. R. Macrospatial genetic structure and speciation in marine taxa with high dispersal abilities. in J. Ferraris and S. R. Palumbi (eds.) *Molecular Approaches to Zoology and Evolution* Wiley-Liss, New York. pp. 101-117.
- 1996 Metz, E. C. and S. R. Palumbi. Positive selection and sequence rearrangements generate extensive polymorphism in the gamete recognition protein bindin. *Molec. Biol. Evol.* 13:397-406
- 1996 Romano, S. R. and S. R. Palumbi. Hidden evolution of two architectural strategies in Scleractinian corals inferred from molecular systematics. *Science.* 271: 640-642.
- 1996 Palumbi, S. R. What can molecular genetics contribute to marine biogeography? An urchin's tale. *J. exp. mar. Biol. Ecol.* 203:75-92.
- 1996 Baker, C.S., Cipriano, F, and S. R. Palumbi. Molecular genetic identification of whale and dolphin products from commercial markets in Korea and Japan. *Molec Ecol.* 5:671-685.
- 1997 Palumbi, S. R. and C. S. Baker. Nuclear genetic analysis of population structure and genetic variation using intron primers. in T.B. Smith and R. Wayne eds. *Molecular genetic approaches in conservation* Oxford Surveys in Evol. Biol. pp. 25-37.
- 1997 Romano, S. R. and S. R. Palumbi. Mitochondrial evolution of a portion of the mitochondrial 16S ribosomal gene region in scleractinian corals. *J. Molec. Evol.* 45:397-411.
- 1997 Palumbi, S. R. Molecular biogeography of the Pacific. *Coral Reefs* 16:S47-52
- 1997 Palumbi, S. R., G. Grabowsky, T. Duda, N. Tachino, and L. Geyer. Speciation and the evolution of population structure in tropical Pacific sea urchins. *Evolution* 51:1506-1517.
- 1997 Palumbi, S. R. A star is born. *Nature* Dec 11, 1997
- 1998 Villablanca, F. X., G. K. Roderick, and S. R. Palumbi. Invasion genetics of the Mediterranean fruit fly: variation in multiple nuclear introns. *Molecular Ecology* 7:547-560.
- 1998 Palumbi, S. R. and F. Cipriano. Species identification using genetic tools: The value of nuclear and mitochondrial gene sequences in whale conservation. *J. Heredity*, 89:459-464.

- 1998 Palumbi, S. R. Species formation and the evolution of gamete recognition loci. in D. J. Howard and S. H. Berlocher, eds *Endless Forms: Species and Speciation*. Oxford University Press. NY. Pp.271-278
- 1999 Cipriano, F., and S. R. Palumbi. 1999. Genetic tracking of a protected whale. *Nature* 397:307-308
- 1999 Duda, T. F., and S. R. Palumbi. 1999a. Developmental shifts and species selection in gastropods. *Proceedings of the National Academy of Sciences of the United States of America* 96:10272-10277.
- 1999 Duda, T. F., and S. R. Palumbi. 1999b. Molecular genetics of ecological diversification: Duplication and rapid evolution of toxin genes of the venomous gastropod *Conus*. *Proceedings of the National Academy of Sciences of the United States of America* 96:6820-6823.
- 1999 Duda, T. F., and S. R. Palumbi. 1999c. Population structure of the black tiger prawn, *Penaeus monodon*, among western Indian Ocean and western Pacific populations. *Marine Biology* 134:705-710.
- 1999 France, S. C., N. Tachino, T. F. Duda, R. A. Shleser, and S. R. Palumbi. 1999. Intraspecific genetic diversity in the marine shrimp *Penaeus vannamei*: Multiple polymorphic elongation factor-1 alpha loci revealed by intron sequencing. *Marine Biotechnology* 1:261-268.
- 1999 Hare, M. P., and S. R. Palumbi. 1999. The accuracy of heterozygous base calling from diploid sequence and resolution of haplotypes using allele-specific sequencing. *Molecular Ecology* 8:1750-1752.
- 1999 McMillan, W. O., L. A. Weigt, and S. R. Palumbi. 1999. Color pattern evolution, assortative mating, and genetic differentiation in brightly colored butterflyfishes (Chaetodontidae). *Evolution* 53:247-260.
- 1999 Palumbi, S., and F. Cipriano. 1999. Harpoons fly in whale wars - reply. *Nature* 398:366-366.
- 1999 Palumbi, S. R. 1999a. All males are not created equal: Fertility differences depend on gamete recognition polymorphisms in sea urchins. *Proceedings of the National Academy of Sciences of the United States of America* 96:12632-12637.
- 2000 Baker, C. S., G. M. Lento, F. Cipriano, M. L. Dalebout, and S. R. Palumbi. 2000a. Scientific whaling: Source of illegal products for market? *Science* 290:1695-1695.
- 2000 Baker, C. S., G. M. Lento, F. Cipriano, and S. R. Palumbi. 2000b. Predicted decline of protected whales based on molecular genetic monitoring of Japanese and Korean markets. *Proceedings of the Royal Society of London Series B-Biological Sciences* 267:1191-1199.
- 2000 Barber, P. H., S. R. Palumbi, M. V. Erdmann, and M. K. Moosa. 2000. Biogeography - A marine Wallace's line? *Nature* 406:692-693.

- 2000 Duda, T. F., and S. R. Palumbi. 2000. Evolutionary diversification of multigene families: Allelic selection of toxins in predatory cone snails. *Molecular Biology and Evolution* 17:1286-1293.
- 2000 Hare, M. P., S. R. Palumbi, and C. A. Butman. 2000. Single-step species identification of bivalve larvae using multiplex polymerase chain reaction. *Marine Biology* 137:953-961.
- 2001 Palumbi, S. R. *The Evolution Explosion*, WW Norton, NY.
- 2001 Duda, T. F., A. J. Kohn, and S. R. Palumbi. 2001. Origins of diverse feeding ecologies within *Conus*, a genus of venomous marine gastropods. *Biological Journal of the Linnean Society* 73:391-409.
- 2001 Palumbi, S. R. 2001. Evolution - Humans as the world's greatest evolutionary force. *Science* 293:1786-1790.
- 2001 Palumbi, S. R., F. Cipriano, and M. P. Hare. 2001. Predicting nuclear gene coalescence from mitochondrial data: The three-times rule. *Evolution* 55:859-868.
- 2001 Palumbi, S. R. The ecology of marine protected areas. In Bertness, M. , S. Gaines and M. Hay Ed. *Marine Community Ecology*. Pp 509-530. . Sinauer Press, Sunderland MA.
- 2002 Ingram, K. K. and S. R. Palumbi. Characterization of microsatellite loci for the Argentine ant, *Linepithema humile*, and their potential for analysis of colony structure in invading Hawaiian populations. *Molecular Ecology Notes* 2:94-95.
- 2002 Hellberg, M. E., R. S. Burton, J. E. Neigel, and S. R. Palumbi. Genetic assessment of connectivity among marine populations. *Bulletin of Marine Science* 70:273-290.
- 2002 Vollmer, S. V. and S. R. Palumbi. Hybridization and the evolution of reef coral diversity. *Science* 296:2023-2025.
- 2002 Hare M. P., F. Cipriano, and S. R. Palumbi. Genetic evidence on the demography of speciation in allopatric dolphin species. *Evolution* 56:804-816.
- 2002 Barber, P. H., S. R. Palumbi, M. V, Erdmann, and M. K. Moosa. Sharp genetic breaks among populations of *Haptosquilla pulchella* (Stomatopoda) indicate limits to larval transport: patterns, causes, and consequences. *Molecular Ecology* 11:659-674.
- 2002 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.
- 2002 Vollmer, S. and S. R. Palumbi. Unisexual clones: Lizards and corals. *Science* 298:2130-2131.
- 2002 Simmonds, MP, Haraguchi, K, Endo, T, Cipriano, F and S. R. Palumbi and G. M. Troisi, Human health significance of organochlorine and mercury contaminants in

- Japanese whale meat. *Journal of Toxicology and Environmental Health Part A* .65:1211-1235.
- 2003 Palumbi, S. R., S. D. Gaines, H. Leslie, and R. R. Warner. 2003. A new wave: high tech tools held design effective marine research. *Frontiers in Ecology and the Environment* 1.
- 2003 Palumbi, S. R. *Marine Reserves: A tool for ecosystem management and conservation*. Pew Oceans Commission, Washington D. C.
- 2003 Biermann, C. H., B. D. Kessing, and S. R. Palumbi. 2003. Phylogeny and development of marine model species: stronglylocentrotid sea urchins. *Evolution & Development* 5:360-371.
- 2003 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.
- 2003 Geyer, L. B., and S. R. Palumbi. 2003. Reproductive character displacement and the genetics of gamete recognition in tropical sea urchins. *Evolution* 57:1049-1060.
- 2003 Hare, M. P., and S. R. Palumbi. 2003. High intron sequence conservation across three mammalian orders suggests functional constraints. *Molecular Biology and Evolution* 20:969-978.
- 2003 Hughes, T. P., A. H. Baird, D. R. Bellwood, M. Card, S. R. Connolly, C. Folke, R. Grosberg, O. Hoegh-Guldberg, J. B. C. Jackson, J. Kleypas, J. M. Lough, P. Marshall, M. Nystrom, S. R. Palumbi, J. M. Pandolfi, B. Rosen, and J. Roughgarden. 2003a. Climate change, human impacts, and the resilience of coral reefs. *Science* 301:929-933.
- 2003 Hughes, T. P., A. H. Baird, D. R. Bellwood, S. R. Connolly, C. Folke, R. Grosberg, O. Hoegh-Guldberg, J. B. C. Jackson, J. Kleypas, J. M. Lough, P. Marshall, M. Nystrom, S. R. Palumbi, J. M. Pandolfi, B. Rosen, and J. Roughgarden. 2003b. Causes of coral reef degradation - Response. *Science* 302:1503-1504.
- 2003 Landry, C., L. B. Geyer, Y. Arakaki, T. Uehara, and S. R. Palumbi. 2003. Recent speciation in the Indo-West Pacific: rapid evolution of gamete recognition and sperm morphology in cryptic species of sea urchin. *Proceedings of the Royal Society of London Series B-Biological Sciences* 270:1839-1847.
- 2003 Lubchenco, J., S. R. Palumbi, S. D. Gaines, and S. Andelman. 2003. Plugging a hole in the ocean: The emerging science of marine reserves. *Ecological Applications* 13:S3-S7.
- 2003 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.
- 2003 Palumbi, S. R. 2003b. Population genetics, demographic connectivity, and the design of marine reserves. *Ecological Applications* 13:S146-S158.

- 2003 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.
- 2003 Roman, J., and S. R. Palumbi. 2003. Whales before whaling in the North Atlantic. *Science* 301:508-510.
- 2004 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.
- 2004 Palumbi, S. R., and J. Roman. Counting whales in the North Atlantic - *Science* 303:40-40
- 2004 Palumbi, Stephen R. and J. Roman. Counting whales in the North Atlantic: Response. *Science (Washington D C)* 303 (5654) : 40 2
- 2004 Sotka, E. E., J. P. Wares, J. A. Barth, R. K. Grosberg, and S. R. Palumbi. 2004. Strong genetic clines and geographical variation in gene flow in the rocky intertidal barnacle *Balanus glandula*. *Molecular Ecology* 13:2143-2156.
- 2004 Palumbi, S. R. Ocean neighborhoods and marine reserves. *Annual Reviews of Environment and Resources*. 29: 31-68.
- 2004 Vollmer, S. and S. R. Palumbi. 2004. Testing the utility of internally transcribed spacer sequences in coral phylogenetics. *Molec. Ecol.* 13:2763-2772.
- 2004 Roman, J. and S. R. Palumbi. 2004. A global invader at home: population structure in the green crab, *Carcinus maenas* in Europe. *Molec. Ecol.* 13:2891-2898.
- 2004 Palmer, M. et al. Ecological science and sustainability in the 21st century. *Frontiers in Ecology and the Environment* 3:4-11.
- 2004 Duda, Thomas F. Jr; Palumbi, Stephen R. Gene expression and feeding ecology: evolution of piscivory in the venomous gastropod genus *Conus* *Proceedings of the Royal Society Biological Sciences Series B* 271 (1544) : 1165-1174
- 2005 Geyer, L. and S. R. Palumbi. 2005. Conspecific sperm precedence in two species of tropical sea urchins. *Evol* 59:97-105.
- 2005 Palumbi, S. R. and H. A. Lessios. 2005. Evolutionary Animation: How do molecular phylogenies compare to Mayr's reconstruction of speciation patterns in the sea? *Proc. Nat. Acad. Sci.* 102:6566-6572.
- 2005 Palumbi, S. R. 2005. Coral gardens: Paternity and drug testing on the reef. *Current Biology* 15: R544-R545.

- 2005 Palumbi, S. R. 2005. Environmental science - Germ theory for ailing corals. *Nature* 434: 713-715.
- 2005 Palmer, MA; Bernhardt, ES; Chornesky, EA; Collins, SL; Dobson, AP; Duke, CS; Gold, BD; Jacobson, RB; Kingsland, SE; Kranz, RH; Mappin, MJ; Martinez, ML; Micheli, F; Morse, JL; Pace, ML; Pascual, M; Palumbi, SS; Reichman, O; Townsend, AR; Turner, MG. Ecological science and sustainability for the 21st century. *Frontiers Ecol Environ*, 3: 4-11.
- 2005 Geyer, Laura B.; Palumbi, Stephen R. Conspecific sperm precedence in two species of tropical sea urchins *Evolution* 59 (1) : 97-105
- 2006 Palumbi, S. R. and Sotka, E. E.. The use of genetic clines to estimate dispersal distances of marine larvae. *Ecology* 87(5):1094-1103.
- 2006 Barber, Paul H.; Erdmann, Mark V.; Palumbi, Stephen R. Comparative phylogeography of three codistributed stomatopods: Origins and timing of regional lineage diversification in the coral triangle *Evolution* 60 (9) : 1825-1839
- 2006 Galindo, Heather M.; Olson, Donald B.; Palumbi, Stephen R. Seascape genetics: A coupled oceanographic-genetic model predicts population structure of Caribbean corals *Current Biology* 16 (16) : 1622-1626
- 2006 Worm, B.; Barbier, E.B.; Beaumont, N.; Duffy, J. E.; Folke, C.; Halpern, B.S.; Jackson, J.B.C.; Lotze, H.K.; Micheli, F; Palumbi, S.R.; Sala, E.; Selkoe, K.A.; Stachowicz, J.J.; Watson, R. Impacts of biodiversity loss on ocean ecosystem services. *Science* 314(5800):787-790

Books

Ferraris, J. and S. R. Palumbi, Eds. *Molecular Zoology: Advances, Strategies and Protocols*. Wiley-Liss, NY.

Palumbi, S. R. *The Evolution Explosion*, WW Norton, NY.

Popular articles and science commentary

Palumbi, S. R. 1999b. The prodigal fish. *Nature* 402:733.

Palumbi, S. R. 2001. Amazing tails of electric lugworms: Metabolic physiology reaches out. Review of *The Extended Organism*, J. Scott Turner, Harvard Univ. Press. *American Scientist* May-June 2001:266-268

Palumbi, S. R. 2002. Evolution, Synthesized. Review of *What Evolution Is* by Ernst Mayr, Basic Books. *Harvard Magazine* March-April 2002:26-30.

Palumbi, S. R., and R. R. Warner. 2003. Why gobies are like hobbits. *Science* 299:51-52.

Palumbi, S. R. 2003a. Ecological subsidies alter the structure of marine communities. *Proceedings of the National Academy of Sciences of the United States of America* 100:11927-11928.

Warner, R. R., and S. R. Palumbi. 2003. Larvae retention: Genes or oceanography? *Science* 300:1658-1658.2004

Norse, EA, Grimes, CB, Ralston, S, Hilborn, R, Castilla, JC, Palumbi, SR, Fraser, D, and P. Kareiva, 2003. Marine reserves: the best option for our oceans? *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 1:495-502

Palumbi, S. R. 2004. Fisheries science - Why mothers matter. *Nature* 430:621-622.

Palumbi, S. R. 2005. Germ theory for Ailing Corals. *Nature* 434:714-715.

Films to enhance science communication

2002 *The Future is Wild*, BBC/Animal Planet (6 hr series on the future of evolution)

2003 *Urban shark hunting*, Garthwaite and Griffin Films (pilot microdocumentary on shark DNA forensics)

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. Micro documentary for AAAS 2005.

2005 Short Attention Span Science Theatre – web based microdocumentary project at

<http://www.stanford.edu/group/Palumbi/microdocs.html>