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Department of Vertebrate Zoology
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Major Professional Interests/Areas of Expertise

Systematics, Phylogeny and Biogeography of Tropical Freshwater and Coastal Marine Fishes.
Comparative Teleost Anatomy, Development and Reproduction.
Theory and Methods of Historical Biogeography.

Current Position

Curator of Fishes and Research Scientist, December 1998, GS-15

Previous Professional Positions

Curator of Fishes, National Museum of Natural History, August 1993 to December 1998, GS-14; March 1991 to August 1993, GS-13; January 1990 to March 1991, GS-12.

Research Scientist, April 1984 to December 1989, Department of Ichthyology, California Academy of Sciences.

Tilton Fellow, 1985-1986, Department of Ichthyology, California Academy of Sciences.

Adjunct Professor, 1988, San Francisco State University [taught Biology of Fishes].

Distinguished Visiting Scholar, 1987, San Francisco State University [taught Graduate Seminar on Cladistics].

Museum Specialist, temporary-NSF, Division of Fishes, August 1983 to March 1984, Field Museum of Natural History.

Research Associate in Residence, January to August 1983, Department of Ichthyology, American Museum of Natural History.

NATO-NSF Postdoctoral Fellow, September 1981 to January 1983, Department of Zoology, British Museum (Natural History).

Smithsonian Postdoctoral Fellow, August 1980 to August 1981, Division of Fishes, National Museum of Natural History.

Part-time Instructor, September 1975 through May 1980, Department of Biology, City College of the City University of New York.

Research Assistant, September 1973 through July 1975, Department of Ecology and Evolution, State University of New York, Stony Brook.

Higher Education

B.S., 1975, Biological Sciences, State University of New York at Stony Brook.

Ph.D., 1980, Biology, City University of New York [Dissertation title: A phylogenetic and biogeographic analysis of cyprinodontiform fishes].

PEER REVIEWED PUBLICATIONS

1980. **Parenti, L. R.** A phylogenetic analysis of the land plants. *Biological Journal of the Linnean Society*, 13(3):225-242, 5 figures.
- 1981a. **Parenti, L. R.** [Discussion of] Methods of paleobiogeography, pp. 490-497, 1 figure, In: *Vicariance biogeography: a critique*, G. Nelson & D. E. Rosen (eds.). Columbia University Press, New York.
- 1981b. **Parenti, L. R.** A phylogenetic and biogeographic analysis of cyprinodontiform fishes (Teleostei, Atherinomorpha). *Bulletin of the American Museum of Natural History*, 168(4):335-557, 99 figures, 3 tables.
- 1981c. Rosen, D. E. & **L. R. Parenti.** Relationships of *Oryzias*, and the groups of atherinomorph fishes. *American Museum Novitates*, no. 2719, 25 p, 20 figures.
- 1982a. **Parenti, L. R.** Relationships of the African killifish genus *Foerschichthys* (Teleostei: Cyprinodontiformes: Aplocheilidae). *Proceedings of the Biological Society of Washington*, 95(3): 451-457, 1 figure.
- 1982b. **Parenti, L. R.** Killifishes of the Andes: the genus *Orestias*. *Journal of the American Killifish Association*, 15(5):185-189, 1 figure.
- 1982c. **Parenti, L. R.** Cladistics and conventions. *Taxon*, 31(1):96-101.
- 1984a. **Parenti, L. R.** A taxonomic revision of the Andean killifish genus *Orestias* (Cyprinodontiformes, Cyprinodontidae). *Bulletin of the American Museum of Natural History*, 178(2): 107-214, 72 figures, 12 tables.
- 1984b. **Parenti, L. R.** On the relationships of phallostethid fishes (Atherinomorpha), with notes on the anatomy of *Phallostethus dunckeri* Regan, 1913. *American Museum Novitates*, no. 2779, 12 p, 7 figures, 1 table.
- 1984c. **Parenti, L. R.** Biogeography of the Andean killifish genus *Orestias* with comments on the species flock concept. pp. 85-92, 5 figures, In: *Evolution of fish species flocks*, A.A. Echelle & I. Kornfield (eds.), University of Maine Press.
1985. **Parenti, L. R.** Silversides, killifishes . . . , pp. 98-101, 6 figures, 1 table, In: *Encyclopaedia of Aquatic Life*. K. Banister & A. Campbell (eds.). Equinox, Ltd.
- 1986a. Humphries, C.J. & **L. R. Parenti.** *Cladistic biogeography*. Oxford University Press Monographs on Biogeography, No. 2, 98 p, 67 figures, 4 tables [Reprinted 1987, 1989].
- 1986b. **Parenti, L. R.** Bilateral asymmetry in phallostethid fishes (Atherinomorpha), with description of a new species from Sarawak. *Proceedings of the California Academy of Sciences*, 44(10):225-236, 5 figures, 2 tables.

- 1986c. **Parenti, L. R.** Homology of pelvic fin structures in female phallostethid fishes (Atherinomorpha, Phallostethidae). *Copeia*, 1986(2):305-310, 5 figures.
- 1986d. **Parenti, L. R.** The phylogenetic significance of bone types in euteleost fishes. *Zoological Journal of the Linnean Society*, 87:37-51, 3 figures.
1987. **Parenti, L. R.** Phylogenetic aspects of tooth and jaw structure of the medaka, *Oryzias latipes*, and other beloniform fishes. *Journal of Zoology, London*, 211:561-572, 2 figures, 3 plates.
- 1988a. Tigano, C. & **L. R. Parenti.** Homology of the median ethmoid ossifications of *Aphanius fasciatus* and other atherinomorph fishes. *Copeia*, 1988(4):866-870, 3 figures.
- 1988b. Uwa, H. & **L. R. Parenti.** Morphometric and meristic variation in ricefishes, genus *Oryzias*: a comparison with cytogenetic data. *Japanese Journal of Ichthyology*, 35(2):159-166, 2 figures, 2 tables.
- 1989a. **Parenti, L. R.** A phylogenetic revision of the phallostethid fishes (Atherinomorpha, Phallostethidae). *Proceedings of the California Academy of Sciences*, 46(11):243-277, 13 figures, 3 tables.
- 1989b. **Parenti, L. R.** & M. Rauchenberger. Systematic overview of the poeciliines. pp. 3-12, 1 table, In: *Ecology and evolution of livebearing fishes (Poeciliidae)*, G. K. Meffe & F. F. Snelson, Jr. (eds.). Prentice-Hall.
- 1989c. **Parenti, L. R.** Why ricefish are not killifish. *Journal of the American Killifish Association*, 22(3):79-84. 3 figures, 1 table.
- 1989d. **Parenti, L. R.** Fundamental biogeography. *Journal of Biogeography*, 16:401-402.
1990. **Parenti, L. R.** Sociology and Biogeography: a reply to Grehan. *Journal of Biogeography*, 17(6):691.
- 1991a. **Parenti, L. R.** & G. R. Allen. Fishes of the Gogol River and coastal localities, Madang Province, Papua New Guinea. *Ichthyological Exploration of Freshwaters*, 1(4):307-320, 4 figures.
- 1991b. **Parenti, L. R.** Ocean basins and the biogeography of freshwater fishes. *Australian Systematic Botany*, 4(1):137-149, 11 figures.
1992. Allen, G. R., **L. R. Parenti** & D. Coates. Fishes of the Ramu River, Papua New Guinea. *Ichthyological Exploration of Freshwaters*, 3(4):289-304, 5 figures, 1 table.
- 1993a. **Parenti, L. R.** Relationships of atherinomorph fishes (Teleostei). *Bulletin of Marine Science*, 52(1):170-196, 10 figures, 2 tables.

- 1993b. **Parenti, L. R.** & J. A. Maciolek. New sicydiine gobies from Ponape and Palau, Micronesia, with comments on systematics of the subfamily Sicydiinae (Teleostei: Gobiidae). *Bulletin of Marine Science*, 53(3):945-972, 16 figures, 3 tables.
- 1993c. **Parenti, L. R.** & C. Tigano. Polymorphic skeletal characters in *Aphanius fasciatus* (Teleostei: Cyprinodontiformes). *Copeia*, 1993(4):1132-1137, 4 figures.
- 1994a. **Parenti, L. R.** Killifishes and ricefishes. In: *Encyclopedia of Fishes*. pp. 148-152, 7 figures, 1 table. J. R. Paxton & W. N. Eschmeyer (eds.). University of New South Wales Press.
- 1994b. Grier, H. J. & **L. R. Parenti**. Reproductive biology and systematics of phallostethid fishes as revealed by gonad structure. *Environmental Biology of Fishes*, 41:287-299, 6 figures, 2 tables.
1995. Song, J. & **L. R. Parenti**. Clearing and staining whole fish specimens for simultaneous demonstration of bone, cartilage, and nerves. *Copeia*, 1995(1):114-118, 1 figure.
- 1996a. **Parenti, L. R.** Phylogenetic systematics and biogeography of phallostethid fishes (Atherinomorpha, Phallostethidae) of northwestern Borneo, with description of a new species. *Copeia*, 1996(3):703-712, 7 figures, 2 tables.
- 1996b. **Parenti, L. R.** & J. A. Maciolek. *Sicyopterus rapa*, a new sicydiine goby (Teleostei, Sicydiinae), from Rapa, French Polynesia. *Bulletin of Marine Science*, 58(3):660-667, 3 figures, 1 table.
- 1996c. Stiassny, M. L. J., **L. R. Parenti** & G. D. Johnson (eds). *Interrelationships of Fishes*. Academic Press, San Diego. 497 pages.
- 1996d. Stiassny, M. L. J., **L. R. Parenti** & G. D. Johnson. Preface. pp.xi-xii, In: *Interrelationships of fishes* (M. L. J. Stiassny, L. R. Parenti & G. D. Johnson, eds.). Academic Press, San Diego.
- 1996e. **Parenti, L. R.** & J. Song. Phylogenetic significance of the pectoral/pelvic fin association in acanthomorph fishes: A reassessment using comparative neuroanatomy. pp. 427-444, 12 figures, 2 tables, In: *Interrelationships of fishes* (M. L. J. Stiassny, L. R. Parenti & G. D. Johnson, eds.). Academic Press, San Diego.
- 1996f. Baldwin, C. C., B. B. Collette, **L. R. Parenti**, D. G. Smith & V. G. Springer. Collecting Fishes. pp. 11-33, 15 figures, In: *Methods and Techniques of Underwater Research. Proceedings of the American Academy of Underwater Sciences Scientific Diving Symposium* (M. A. Lang & C. C. Baldwin, eds.). Smithsonian Institution.
- 1998a. **Parenti, L. R.** & K. D. Louie. *Neostethus djajaorum*, new species from Sulawesi, Indonesia, the first phallostethid fish (Teleostei, Atherinomorpha) known from east of Wallace's Line. *Raffles Bulletin of Zoology* 46(1):139-150, 5 figures.

- 1998b. **Parenti, L. R.** & K. R. Thomas. Pharyngeal jaw morphology and homology in sicydiine gobies (Teleostei: Gobiidae) and allies. *Journal of Morphology*, 237:257-274, 11 figures.
- 1998c. **Parenti, L. R.** Killifishes and ricefishes. In: *Encyclopedia of Fishes, second edition*, pp. 148-152, 7 figures, 1 table. J. R. Paxton & W. N. Eschmeyer (eds.). Academic Press.
- 1998d. Stiassny, M. L. J., **L. R. Parenti** & G. D. Johnson (eds). *Interrelationships of Fishes*. Academic Press, San Diego. 497 pages. [Reprint of 1996 book in paperback with corrections and additions].
- 1999a. Humphries, C. J. & **L. R. Parenti**. *Cladistic biogeography: interpreting patterns of plant and animal distributions, Second edition*. Oxford University Press. 187 pages, 84 figures, 11 tables.
- 1999b. **Parenti, L. R.**, J. M. Clayton & J. C. Howe. Catalog of type specimens of recent fishes in the National Museum of Natural History, Smithsonian Institution, 9: Family Poeciliidae (Teleostei: Cyprinodontiformes). *Smithsonian Contributions to Zoology*, 604:1-22.
- 1999c. **Parenti, L. R.** *Collective spirit*. [Commentary on] *Collection building in Ichthyology and Herpetology*. 1997. T. W. Pietsch & W. D. Anderson, Jr., (eds.), American Society of Ichthyologists and Herpetologists. *Environmental Biology of Fishes* 55:203-206.
- 2000a. **Parenti, L. R.** Order Atheriniformes. Phallostethidae. pp. 2146-2148, in *The Living Marine Resources of the Western Central Pacific. FAO Western Central Pacific Identification Guide for Fishery purposes. Vol. 4, Bony fishes part 2 (Mugilidae to Carangidae)*. Food and Agricultural Organization, Rome.
- 2000b. **Parenti, L. R.** Order Beloniformes. Adrianichthyidae. pp. 2149-2150, in *The Living Marine Resources of the Western Central Pacific. FAO Western Central Pacific Identification Guide for Fishery purposes. Vol. 4, Bony fishes part 2 (Mugilidae to Carangidae)*. Food and Agricultural Organization, Rome.
- 2000c. **Parenti, L. R.** Order Cyprinodontiformes. Aplocheilidae. pp. 2197-2198, in *The Living Marine Resources of the Western Central Pacific. FAO Western Central Pacific Identification Guide for Fishery purposes. Vol. 4, Bony fishes part 2 (Mugilidae to Carangidae)*. Food and Agricultural Organization, Rome.
- 2000d. **Parenti, L. R.** Order Cyprinodontiformes. Poeciliidae. pp. 2199-2200, in *The Living Marine Resources of the Western Central Pacific. FAO Western Central Pacific Identification Guide for Fishery purposes. Vol. 4, Bony fishes part 2 (Mugilidae to Carangidae)*. Food and Agricultural Organization, Rome.
- 2000e. **Parenti, L. R.** Families Phallostethidae, Aplocheilidae, Poeciliidae, Adrianichthyidae. pp 599-600, in Randall, J. E. & K.K.P. Lim, A checklist of fishes of the South China Sea. *The Raffles Bulletin of Zoology*, Supplement 8, 569-667.

2001. Humphries, C. J. & **L. R. Parenti**. *Cladistic biogeography: interpreting patterns of plant and animal distributions, Second edition*. Oxford University Press. 187 pages, 84 figures, 11 tables. [Reprint of 1999 book with corrections and additions].
- 2002a. Claro, R., K. C. Lindeman & **L. R. Parenti** (eds.) *Ecology of the Marine Fishes of Cuba*. Smithsonian Institution Press, Washington, D.C. xv + 253 pages. [Dated 2001].
- 2002b. Claro, R., K. C. Lindeman & **L. R. Parenti** (eds.) Preface. *Ecology of the Marine Fishes of Cuba*. Smithsonian Institution Press, Washington, D.C. xv + 253 pages. [Dated 2001].
- 2002c. Claro, R. & **L. R. Parenti**. The marine ichthyofauna of Cuba. Pp. 21-57, In Claro, R., K. C. Lindeman & L. R. Parenti (eds.) *Ecology of the Marine Fishes of Cuba*. Smithsonian Institution Press, Washington, D.C. xv + 253 pages. [Dated 2001].
2003. **Parenti, L. R.** & A. L. Downing Meisner. Fishes of the Belait River. *Brunei Museum Journal*, 10 [1995]:17-54, 7 figures, 4 appendices.
- 2004a. **Parenti, L. R.** & B. Soeroto. *Adrianichthys roseni* and *Oryzias nebulosus*, two new ricefishes (Atherinomorpha: Beloniformes: Adrianichthyidae) from Lake Poso, Sulawesi, Indonesia. *Ichthyological Research*, 51(1):10-19, 8 figures, 6 tables.
- 2004b. Humphries, C. J. & **L. R. Parenti**. *Cladistic biogeography: interpreting patterns of plant and animal distributions, Second edition*. Higher Education Press, Beijing. [Chinese edition of book published in English in 1999 by Oxford University Press.]
- 2004c. **Parenti, L. R.** & H. J. Grier. Evolution and phylogeny of gonad morphology in bony fishes. *Integrative and Comparative Biology*, 44(5):333-348, 4 figures, 1 table.
- 2004d. **Parenti, L. R.** & C. J. Humphries. Forum on Biogeography: Historical Biogeography, the Natural Science. *Taxon*, 53(4):899-903, 1 figure.
- 2004e. **Parenti, L. R.** Silversides, killifishes, and ricefishes. Pp. 240-243, In: *The New Encyclopedia of Aquatic Life*. A. Campbell & J. Dawes (eds.). Facts on File, Inc, NY.
- 2005a. **Parenti, L. R.** & K. K. P. Lim. Fishes of the Rajang Basin, Sarawak, Malaysia. *Raffles Bulletin of Zoology*, Supplement no. 13:175-208, 11 figures, 2 appendices.
- 2005b. **Parenti, L. R.** The phylogeny of atherinomorphs: evolution of a novel reproductive system. Pp. 13-30, 11 figures, 1 table, In: *Viviparous Fishes. Proceedings of the I and II International Symposia*. M. del. C. Uribe & H. J. Grier (eds.). New Life Publications, Homestead, FL.

- 2005c. Grier, H. J., M. del C. Uribe, **L. R. Parenti** & G. De la Rosa-Cruz. Fecundity, the germinal epithelium, and folliculogenesis in viviparous fishes. Pp. 191-216, 21 figures, 1 table, In: *Viviparous Fishes. Proceedings of the I and II International Symposia*. M. del. C. Uribe & H. J. Grier (eds.). New Life Publications, Homestead, FL.
- 2005d. **Parenti, L. R.** Donn Eric Rosen: an appreciation. Pp. 4-5, 2 figures, In: *Viviparous Fishes. Proceedings of the I and II International Symposia*. M. del. C. Uribe & H. J. Grier (eds.). New Life Publications, Homestead, FL.
- 2006a. **Parenti, L. R.** Common cause and historical biogeography. Pp. 61-82, 5 figures, In: *Biogeography in a Changing World*, M. C. Ebach & R. Tangney, eds. Fifth Biennial Conference of the Systematics Association, UK. CRC Press, Boca Raton, FL.
- 2006b. **Parenti, L. R.** *Typhlichthys eigenmanni* Charlton, 1933, an available name for a blind cavefish (Teleostei: Amblyopsidae), differentiated on the basis of characters of the central nervous system. *Zootaxa* 1374: 55-59.
- 2007a. Grier, H.J., Uribe, M. and **L. R. Parenti**. The germinal epithelium, folliculogenesis, and post ovulatory follicles in ovaries of rainbow trout, *Oncorhynchus mykiss* (Walbaum, 1792) (Teleostei, Protacanthopterygii, Salmoniformes). *Journal of Morphology*, 268:293-310.
- 2007b. McCarthy, D., Ebach, M. C., Morrone, J.J. & **L. R. Parenti**. An alternative Gondwana: Biota links South America, New Zealand and Australia. *Biogeografía* 2 (July 2007): 1-11, 6 figures.
- 2007c. Carvalho, M. R., F. A. Bockmann, D. S. Amorim, C. R. F. Brandão, M. deVivo, J. L. de Figueiredo, H. A. Britski, M. C. C. de Pinna, N. A. Menezes, F. P. L. Marques, N. Papavero, E. M. Canello, J. V. Crisci, J. D. McEachran, R. C. Schelly, J. G. Lundberg, A. C. Gill, R. Britz, Q. D. Wheeler, M. L. J. Stiassny, **L. R. Parenti**, L. M. Page, W. C. Wheeler, J. Faivovich, R. P. Vari, L. Grande, C. J. Humphries, R. DeSalle, M. C. Ebach & G. J. Nelson. Taxonomic Impediment or Impediment to Taxonomy? A Commentary on Systematics and the Cyber-taxonomic-Automation Paradigm, *Evolutionary Biology*, 34:140-143.
- 2008a. **Parenti, L. R.** Life history patterns and biogeography: an interpretation of diadromy in fishes. *Annals of the Missouri Botanical Garden*, 95:232-247, 6 figures.
- 2008b. Ebach, M. C., Morrone, J. J., **Parenti, L. R.** & Vilorio, A. L. International Code of Area Nomenclature. *Journal of Biogeography* 35, 1153-1157.
- 2008c. **Parenti, L. R.** A Phylogenetic Analysis and taxonomic revision of Ricefishes, *Oryzias* and relatives (Beloniformes, Adrianichthyidae). *Zoological Journal of the Linnean Society*, 154: 494-610, 58 figures.
- 2009a. **Parenti, L. R.**, Vilorio, A. L., Ebach, M. C. & Morrone, J. J. On the International Code of Area Nomenclature (ICAN): a Reply to Zaragüeta-Bagils et al. *Journal of Biogeography* 36, 1619-1621.

- 2009b. **Parenti, L. R.** & Ebach, M.C. *Comparative Biogeography: Discovering and Classifying Biogeographical Patterns of a Dynamic Earth*. University of California Press, Berkeley. 295 pp.
- 2010a. **Parenti, L. R.** & R. K. Hadiaty. A new, remarkably colorful, small ricefish of the genus *Oryzias* (Beloniformes, Adrianichthyidae) from Sulawesi, Indonesia. *Copeia* 2010 (2):269-274.
- 2010b. **Parenti, L. R.**, LoNostro, F. & Grier, H. J. Reproductive histology of *Tomeurus gracilis* Eigenmann, 1909 (Teleostei: Atherinomorpha: Poeciliidae) with comments on evolution of viviparity in atherinomorph fishes. *Journal of Morphology*. 271:1399–1406.
- 2010c. **Parenti, L. R.** & Ebach, M.C. Wallacea Deconstructed. Pp. 303-318, In *Beyond Cladistics: The Branching of a Paradigm*. D. M. Williams and S. Knapp (eds.). University of California Press, Berkeley.
- 2011a. **Parenti, L. R.** & Hartel, K. E. Osteology identifies *Fundulus capensis* Garman, 1895 as a killifish in the family Fundulidae (Atherinomorpha: Cyprinodontiformes). *Copeia* 2011 (2): 242-250.
- 2011b. de Bruyn, M., **Parenti, L. R.** & Carvalho, G. R. Successful extraction of DNA from archived ‘white-eye’ alcohol-fixed fish specimens using an ancient DNA protocol. *Journal of Fish Biology*. 78:2074-2079.
- 2011c. **Parenti, L. R.** Endemism and Conservation of the Native Freshwater Fish Fauna of Sulawesi, Indonesia. Pp. 1--10. In: Prosiding Seminar Nasional Ikan VI & Kongres Masyarakat Iktiologi Indonesia III (Proceedings of the VIth National Seminar and 3rd Congress of the Indonesian Society of Ichthyologists. C. P. H. Simanjuntak et al (eds.). Masyarakat Iktiologi Indonesia (Indonesian Society of Ichthyologists), Cibinong. ix + 612 p.
- 2012a. Uribe, M.-C., Grier, H. J., & **Parenti, L. R.** Ovarian Structure and Oogenesis of the Oviparous Goodeids *Crenichthys baileyi* (Gilbert, 1893) and *Empetrichthys latos* Miller, 1948 (Teleostei, Cyprinodontiformes). *Journal of Morphology*. 273:371-387.
- 2012b. Kottelat, M, Baird, I. G., Kullander, K. O., Ng, H. H., **Parenti, L. R.**, Rainboth, W.J & Vidthayanon, C. The status and distribution of freshwater fishes of Indo-Burma. P. 38-64. In: *The status and distribution of freshwater biodiversity in Indo-Burma*. Allen, D.J., Smith, K.G., & Darwall, W.R.T. (Compilers). Cambridge, UK and Gland, Switzerland: IUCN
- 2013a. **Parenti, L. R.** & M. C. Ebach. Evidence and hypothesis in biogeography, *Journal of Biogeography*. 40:813–820.
- 2013b. **Parenti, L. R.** Light at the museum. Pp. 282-283. In: *Artefacts: Studies in the History of Science and Technology Volume 9: Analyzing Art and Aesthetics*, A. Collins Goodyear & M.A. Weitekamp (eds.). Smithsonian Institution Scholarly Press.
- 2013c. **Parenti, L. R.** and M. C. Ebach. The explanatory power of biogeographical patterns: a reply to de Bruyn et al. *Journal of Biogeography*, 40, 2206–2208.

2013d. **Parenti, L. R.**, Hadiaty, R. K., Lumbantobing, D. & Herder, F. Two new ricefishes of the genus *Oryzias* (Atherinomorpha, Beloniformes, Adrianichthyidae) augment the endemic freshwater fish fauna of Southeastern Sulawesi, Indonesia. *Copeia*, 2013: 403-414.

2014a. **Parenti, L. R.** A new species of *Neostethus* (Teleostei: Atherinomorpha: Phallostethidae) from Brunei Darussalam, with comments on northwestern Borneo as an area of endemism. *Raffles Bulletin of Zoology*, 62: 175-187.

2014b. Rocha, L. A., A. Aleixo, G. Allen, F. Almeda, C. C. Baldwin, M. Barclay, J. Bates, A. M. Bauer, F. Benzoni, C. M. Berns, M. L. Berumen, D. C. Blackburn, S. Blum, F. Bolaños, R. C. K. Bowie, R. Britz, R. Brown, C. D. Cadena, K. Carpenter, L. M. Ceríaco, P. Chakrabarty, G. Chaves, J. H. Choat, K. Clements, B. B. Collette, A. Collins, J. Coyne, J. Cracraft, T. Daniel, M. R. de Carvalho, K. de Queiroz, F. Di Dario, R. Drewes, J. P. Dumbacher, A. Engilis Jr, M. V. Erdmann, W. Eschmeyer, C. R. Feldman, B. Fisher, J. Fjeldså, P. W. Fritsch, J. Fuchs, A. Getahun, A. Gill, M. Gomon, T. Gosliner, G. Graves, C. E. Griswold, R. Guralnick, K. Hartel, K. M. Helgen, H. Ho, D. T. Iskandar, T. Iwamoto, Z. Jaafar, H. F. James, D. Johnson, D. Kavanaugh, N. Knowlton, E. Lacey, H. K. Larson, P. Last, J. Leis, H. Lessios, J. Liebherr, M. Lowman, D. L. Mahler, V. Mamonekene, K. Matsuura, G. C. Mayer, H. Mays Jr., J. McCosker, R. McDiarmid, J. McGuire, M. J. Miller, R. Mooi, R. D. Mooi, C. Moritz, P. Myers, M. W. Nachman, R. A. Nussbaum, D. Ó Foighil, **L. R. Parenti**, J. F. Parham, E. Paul, G. Paulay, J. Pérez-Emán, A. Perez-Matus, S. Poe, J. Pogonoski, D. Rabosky, J. E. Randall, J. D. Reimer, D. R. Robertson, M.-O. Rödel, M. T. Rodrigues, P. Roopnarine, L. Rüber, M. Ryan, F. Sheldon, G. Shinohara, A. Short, B. Simison, W. Smith-Vaniz, V. Springer, M. Stiassny, J. G. Tello, C. W. Thompson, T. Trnski, P. Tucker, T. Valqui, M. Vecchione, E. Verheyen, P. C. Wainwright, T. A. Wheeler, W. T. White, K. Will, J. T. Williams, E. O. Wilson, K. Winker, R. Winterbottom & C. C. Witt. Collecting biological specimens is essential in science and conservation. *Science*, 344 (6186): 814-815.

2015a. **Parenti, L. R.**, Hadiaty, R. K. & Lumbantobing, D. N. Report on a collection of freshwater and coastal fishes from Sulawesi Tenggara, Indonesia. *Jurnal Iktiologi Indonesia*, 14(1):1-19.

2015b. Giam, X.-L, Hadiaty, R., Tan, H.-H., **Parenti, L. R.**, Wowor, D., Sauri, S., Chong, K. – Y., Yeo, D. & Wilcove, D. Mitigating the impact of oil palm monoculture on freshwater fishes in Southeast Asia. *Conservation Biology* 29(5):1357-1367, plus supplementary material. doi 10.1111/cobi.12483

2015c. Ebach, M.C. & **Parenti, L. R.** The dichotomy of the modern bioregionalisation revival. *Journal of Biogeography* 42(10): 1801-1808. doi 10.1111/jbi.12558.

2015d. **Parenti, L. R.**, H. J. Grier & Uribe, M.C. Reproductive biology of *Chlorophthalmus agassizi* Bonaparte, 1840 (Teleostei: Aulopiformes: Chlorophthalmidae) as revealed through histology of archival museum specimens. *Copeia* 103(4): 821-837. doi:10.1643/CG-15-256.

2016a. Grier, H. J., Uribe, M.C., LoNostro, F. L., Mims, S. D. and **L. R. Parenti**. Constancy of the Germinal Epithelium Through 500 million Years of Vertebrate Evolution. *Journal of Morphology*, 277(8): 1014-1044. doi:10.1002/jmor.20554. Image from publication on journal cover.

2016b. **Parenti, L. R.** and M. H. Wake. Evolution of the Role of Women in the American Society of Ichthyologists and Herpetologists. Invited paper for the ASIH Centennial volume of *Copeia*. *Copeia*, 104(2): 594-601. [doi:10.1643/OT-16-427](https://doi.org/10.1643/OT-16-427)

2016c. Uribe, M.C., H. J. Grier, A. García-Alarcón and **L. R. Parenti**. Oogenesis: From Oogonia to Ovulation in the Flagfish, *Jordanella floridae* Goode & Bean, 1879 (Teleostei: Cyprinodontiformes: Cyprinodontidae). *Journal of Morphology*, 277(10): 1339-1354. [doi:10.1002/jmor.20580](https://doi.org/10.1002/jmor.20580).

2016d. Jaafar, Z and **L. R. Parenti**. Systematics of the Mudskipper Genus *Oxudercus* Eydoux & Souleyet 1948 (Teleostei: Gobiidae: Oxudercinae) with Resurrection from Synonymy of *O. nexipinnis* (Cantor 1849). *Zoological Journal of the Linnean Society*, [doi: 10.1111/zoj.12482](https://doi.org/10.1111/zoj.12482)

2017a. Crother, B. I and **L. R. Parenti** (eds.). *Assumptions Inhibiting Progress in Comparative Biology*, CRC Press/Taylor & Francis Group, Boca Raton, FL. 270 pp.

2017b. **Parenti, L. R.** Raising Cain: On the Assumptions that Inhibit Scientific Progress in Comparative Biogeography, pp. 219-234, In *Assumptions Inhibiting Progress in Comparative Biology*, Crother, B. I and L. R. Parenti (eds.). CRC Press/Taylor & Francis Group, Boca Raton, FL. 24 MS pages, 5 figures.

2017c. **Parenti, L. R.** and B. I. Crother. Rosen Decomposing, pp. 15-20, In *Assumptions Inhibiting Progress in Comparative Biology*, Crother, B. I and L. R. Parenti (eds.). CRC Press/Taylor & Francis Group, Boca Raton, FL. 6 MS pages, 2 figures

In press. **Parenti, L. R.** Family Adrianichthyidae (Ricefishes). In: *Fishes of the Western Indian Ocean*, Heemstra, P. & Heemstra, E. (eds.).

In press. Collette, B.B., & **Parenti, L. R.** Order Beloniformes. In: *Fishes of the Western Indian Ocean*, Heemstra, P. & Heemstra, E. (eds.).

OTHER PUBLICATIONS

1979. **Parenti, L. R.** [Review of] *Essays in plant taxonomy*. 1978. H. E. Street (ed.). Academic Press. *Systematic Zoology*, 28(2):243-246.

1980a. Mickevich, M. F. & **L. R. Parenti**. [Review of] The phylogeny of the Charadriiformes (Aves): a new estimate using the method of character compatibility analysis. 1978. J. G. Strauch, Jr. *Transactions of the Zoological Society of London*, 34:263-345. *Systematic Zoology*, 29:108-113, 4 figures.

- 1980b. **Parenti, L. R.** & M. F. Mickevich. A cladistic approach to geographic variation among populations. *American Zoologist*, 20(4):782.
1981. **Parenti, L. R.** A phylogenetic and biogeographic analysis of cyprinodontiform fishes (Teleostei: Atherinomorpha). *Dissertation Abstracts International*, 41(8).
1983. **Parenti, L. R.** The refuge theory: a critique. [Review of] *Biological diversification in the tropics*. G. T. Prance (ed.). 1982. Columbia University Press. *Systematic Zoology*, 31(4):527-529.
1984. **Parenti, L. R.** Killifish classification. *Aquarist* 1984(6):20-22, 4 figures, 2 tables.
- 1988a. **Parenti, L. R.** [Review of] *Plate tectonics and biogeography*. 1985. A. E. Leviton & M. L. Aldrich (eds.) *Spec. Publ. Earth Sciences History* 4(2):91-196. *Cladistics* 4(1):101-103.
- 1988b. **Parenti, L. R.** [Review of] *The ecology of Sulawesi*. 1987. A. J. Whitten, M. Mustafa & G.S. Henderson. Gadjah Mada University Press. *Wallaceana*. 50 (Dec.1987), pp. 16-17.
- 1988c. **Parenti, L. R.** The phylogenetic significance of bone and tooth structure in the ricefishes, *Oryzias* and allies. *American Zoologist*, 28(4):13A.
- 1988d. **Parenti, L. R.** Freshwater fishes of the western Pacific. *Trustee and Council Newsletter, California Academy of Sciences*. 2(2):3-4.
1992. **Parenti, L. R.** & Vari, R. P. 1992. *Careers in Ichthyology*. American Society of Ichthyologists and Herpetologists. 4 pages.
1993. **Parenti, L. R.** Letter to the editor. *The Linnean*, 9(2):17.
1995. **Parenti, L. R.** [Review of] *Fishes of the World, Third Edition*. 1994. J. S. Nelson. John Wiley & Sons. *Copeia* 1995(1):262-264.
1995. **Parenti, L. R.** Congruence between biogeographic patterns of freshwater and marine fishes. *American Zoologist*, 35(4):133A.
2000. **Parenti, L. R.** [Review of] *Phylogeny and classification of Neotropical Fishes*. L. R. Malabarba, R. E. Reis, R. P. Vari, Z. M. S. Lucena & C. A. S. Lucena (eds.). EDIPUCRS (Editora Pontifícia Universidade Católica do Rio Grande do Sul), Porto Alegre, Brazil. x+603 pp. *Journal of Fish Biology*, (2000) 56:455-456.
- 2002d. **Parenti, L. R.** [Review of] *The Killifishes: an annotated checklist, synonymy and bibliography of recent oviparous cyprinodontiform fishes: The Killifish Master Index, fourth edition*. Kenneth J. Lazara. 2000 [2001]. American Killifish Association. xviii+ 624 p., plus appendices. *Copeia*, 2002 (3):881-883. 91.

- 2002e. **Parenti, L. R.** Fourteen articles on fishes, revised or written. *Encyclopedia Britannica*, electronic version.
- 2004f. **Parenti, L. R.** [Review of] Checklist of the Freshwater Fishes of South and Central America. Organized by R. E. Reis, S. O. Kullander & C. J. Ferraris, Jr. 2003. EDIPUCRS, Porto Alegre, Brazil. 742 pp. *Journal of Fish Biology*, 65:891-892.
- 2002g. **Parenti, L. R.** & Grier, H.J. Evolution and phylogeny of gonad morphology in bony fishes. *Integrative and Comparative Biology*, 42(6):1291.
- 2007d. **Parenti, L. R.** [Review of] The Borneo Suckers. Revision of the torrent loaches of Borneo (Balitoridae: *Gastromyzon*, *Neogastromyzon*). Tan Heok Hui. 245 pp. Published by Natural History Publications (Borneo), Kota Kinabalu. 2006. *Journal of Fish Biology*, 71:312-313.
- 2008d. **Parenti, L.R.** Ichthyology at the Smithsonian: The collection and research in the Division of Fishes, National Museum of Natural History, Smithsonian Institution., pp. 160-169, In: *Ichthyo: the architecture of fish. X-rays from the Smithsonian Institution*. Chronicle Books, San Francisco, CA.
- 2009c. **Parenti, L. R.** [Letter], pp. 163-167, in Knapp, S. & Wheeler, Q. (eds.) *Letters to Linnaeus*. The Linnean Society of London.
- 2010d. **Parenti, L. R.** Review of: *Reproductive Biology and Phylogeny of Fishes (Agnathans and Bony Fishes)*. Edited By B. G. M. Jamieson. *Journal of Fish Biology*. 76(10): 2599-600.
- 2012c. **Parenti, L. R.** Poeciliid biology: the next generation. Review of *Ecology and Evolution of Poeciliid Fishes*. 2011. Jonathan P. Evans, Andrea Pilastro and Ingo Schlupp (Eds.). The University of Chicago Press, Chicago. *Marine & Freshwater Behaviour & Physiology*. 45(1): 75-78.
- 2012d. **Parenti, L. R.** *Animals, A Visual Encyclopedia*. DK Smithsonian (revised 24 pages on fishes).
- 2012e. **Parenti, L. R.** Review of: *The Biology of Gobies*. Patzner, R.A., Van Tassell, J. L., Kovačić, M., and Kappor, B. G. (editors). 2011. Science Publishers, Channel Islands, U.K., Enfield, New Hampshire, USA. 685 pp. *aqua – International Journal of Ichthyology*, 18(4):239-240.
- 2013e. Harrison, I., Evans, M., Lowe-McConnell, R., **Parenti, L. [R.]**, Sanford, C., Snyder, L., Stiassny, M. & Vari, R. Obituary: Gordon John Howes 1938–2013 (Fish Systematist). *Journal of Fish Biology*, 83, 1085–1093.
- 2015e. **Parenti, L. R.** [Review of] *Biogeography of Australasia; A molecular analysis* by Michael Heads. *Systematic Biology*. 64(1):163-166. Published early online 24 Oct 2014; DOI:10.1093/sysbio/syu074.

2016e. **Parenti, L. R.** Foreword. pp. xxxiii-xxxv. In, *Fishes of the World, 5th Edition*. J. S. Nelson, T. Grande and M. V. H. Wilson (eds.). John Wiley & Sons, Hoboken, NJ.

2016f. **Parenti, L. R.** & M. L. J. Stiassny. Rosemary Helen Lowe-McConnell (1924-2014), Honorary Foreign Member in Ichthyology. *Copeia* 104 (2): 607-609. [doi:10.1643/OT-16-404](https://doi.org/10.1643/OT-16-404).

2016g. **Parenti, L. R.** Laid Bare. *Anglers Journal* 3(4):62-69. Online version [here](#).

2017d. Crother, B. I. and **L. R. Parenti**. Preface, pp. xi-xii. In *Assumptions Inhibiting Progress in Comparative Biology*, Crother, B. I. and L. R. Parenti (eds.). CRC Press/Taylor & Francis Group, Boca Raton, FL.

In press. **Parenti, L. R.** & T. Iwamoto. Pearl Mitsu Sonoda (1918-2015). *Copeia*.

In press. Sidlauskas, B. L., Ferraris, C., Funk, V., **Parenti, L. R.**, de Pinna, M., and Reid, G. McG. Richard Peter Vari (August 24, 1949 – January 15, 2016). *Copeia*.

PROFESSIONAL ACTIVITIES

Awards and Honors

Staten Island [NY] Federation of Parents and Teachers Association College Scholarship (1971)

New York State Regents College Scholarship (1971-1975)

Stoye Award, best student paper in Ichthyology, 60th Annual Meeting, American Society of Ichthyologists and Herpetologists (1980)

Research Associate, Department of Vertebrate Zoology, National Museum of Natural History, Smithsonian Institution (1981-1989)

Research Associate, Department of Ichthyology, American Museum of Natural History (1982-1988)

San Francisco Aquarium Society (\$1,000), gift in support of research (1988)

Honorary Fellow, California Academy of Sciences (elected 1989)

Adjunct Professor of Biology, San Francisco State University (1988)

Adjunct Professor of Zoology, The George Washington University (1994 to present)

Fellow, American Association for the Advancement of Science (elected 2001)

Annual Award (2002) from the Academia de Ciencias, Cuba, for an outstanding scientific publication for *Ecology of the Marine Fishes of Cuba*, R. Claro, K. Lindeman & L. R. Parenti (eds.), Smithsonian Institution Press

President, American Society of Ichthyologists and Herpetologists (President-Elect, 2004; President, 2005; Past-President, 2006 -). [First woman ichthyologist elected ASIH President]

Member, National Academy of Sciences US National Committee/DIVERSITAS (July 2004 through June 2007, re-appointed 2008-2014)

Distinguished Lecturer, Petrus Artedi Tricentennial Symposium on Ichthyology, Swedish Museum of Natural History, September 2005. One of five ichthyologists invited to present lecture in symposium honoring Artedi, the father of modern ichthyology

Keynote Speaker, University of Nagoya, Japan, Symposium on the Medaka (2012).

“Superspeaker”, Invited annual speaker chosen by Biology Graduate Students Organization, Southeastern Louisiana University, Hammond, LA, 2010

Honorary Member (the first appointed), Masyarakat Iktiologi Indonesia (Indonesian

Ichthyological Society); 2010-.
Secretary's Research Prize (2010) for an outstanding research publication (the co-authored book, *Comparative Biogeography*), awarded by the Smithsonian Institution
Chair-elect, NMNH Senate of Scientists (2011-2012); Chair (2012-2013); Past-Chair (2013-2014)
Robert H. Gibbs, Jr. Memorial Award for Excellence in Systematic Ichthyology for an outstanding body of published work in systematic ichthyology, American Society of Ichthyologists and Herpetologists (2013)
Keynote Speaker, XIV Congreso Nacional de Ictiología y III Simposio Latinoamericano de Ictiología, Morelia, Mexico (2014)
Bank of America Visiting Scholar, Virginia Institute of Marine Science, The College of William and Mary (2015).
Keynote Speaker, Linnean Society of London meeting at the Arnold Arboretum (2016).
Visiting Faculty, University of Hawai'i at Manoa, January through August 2017.

GRANTS, GIFTS AND CONTRACTS

External (non-Smithsonian) Grants and Contracts

Theodore Roosevelt Memorial Fund Award (\$1,000), American Museum of Natural History (1977), in support of dissertation research.
NSF (Systematic Biology Program) grant to study systematics and biogeography of phallostethid fishes (\$35,000, BSR 83-15258), L. R. Parenti, Principal Investigator.
NSF (Systematic Biology Program) grant to study systematics and biogeography of ricefishes (\$58,497, BSR 87-00351), L. R. Parenti, Principal Investigator.
NSF (Systematic Biology Program) grant to study systematics and biogeography of sicydiine gobies (\$20,000, BSR 89-06649; three-fourths of \$80,000 award declined in favor of permanent employment), L. R. Parenti, Principal Investigator.
Core Participant, DeepFin, NSF 0443470, Research Coordination Network (RCN): A coordinated network of scientists assembled to advance the Phylogeny of Fishes. Guillermo Orti, University of Nebraska, PI. (2005; \$500,000). [\$4,000 awarded to GWU/NMNH graduate student, Daniel Lumbantobing in the DeepFin student exchange program; 2006].
Hughes Hubbard & Reed, LLP (\$1,000), donation in support of research.
ADVANCE award, University of Maryland College Park, with Daphne Soares, Assistant Professor, to encourage collaboration among women scientists (2011; \$20,000)
Department of Biology, University of Hawaii at Manoa (\$1,500), seminar presentation (2015).
Bank of America Visiting Scholar, Virginia Institute of Marine Science, The College of William and Mary (\$4,500, honorarium and expenses) to present lectures on biogeography (2015).

Internal (Smithsonian) Grants, Gifts and Contracts (over \$5,000)

Smithsonian Institution Scholarly Studies Grant, "Fishes of the Rajang River, Malaysian Borneo", \$13,000 (1991).
Smithsonian Institution, Atherton Seidell Fund, \$25,000, to oversee translation, edit and update scientific content of a revised *Ecología de los peces marinos de Cuba*, for SI Press, 1997.
Smithsonian Institution, Atherton Seidell Fund, \$12,000, supplemental award for completion of *Ecology of the Marine Fishes of Cuba*, edited for SI Press, 2000.

Smithsonian Institution Scholarly Studies grant, “Phylogenetic significance of nerve characters in gobioid fishes, illustrating a relationship,” \$24,500 (J. Song, Co-PI) 2001.
Herbert R. and Evelyn Axelrod Chair in Systematic Ichthyology in the Division of Fishes, National Museum of Natural History (3 year term: 2010-2012, ca. \$270,000; continuing 2016 on, ca. \$30,000 per year).
Smithsonian Institution Grand Challenges (Gr-003788): “Global Marine Biodiversity Assessment”, \$12,500. Co-PI, 2010.
Smithsonian Institution Grand Challenges: “Enhancing SI Marine Collections Through Cryopreservation,” \$20,000, Lead PI, 2012.

SELECT RECENT PROFESSIONAL ACTIVITIES – INTERNAL

Chair, Department of Vertebrate Zoology, October 1999 through March 2004
Chair, Senate of Scientists, 2012-2013
PI, Leonard P. Schultz Fund (Division of Fishes Endowment)
Member, MarineGEO Steering Committee and Chair of the Subcommittee on Collections (2010-2013)
Grand Challenges Awards review committee, 2011.
Curator-in-Charge, Division of Fishes, most recent term 2008 – 2011.
Member, Department of Vertebrate Zoology Curatorial Search Committee, 2012 -2015.
Herbert R. and Evelyn Axelrod Chair in Systematic Ichthyology, Division of Fishes (2010-2012)

SELECT PROFESSIONAL ACTIVITIES – EXTERNAL

Systematics Agenda 2000; Co-chair, Committee on Biogeography (1992).
Search Committee, The George Washington University (1994-1995). External member of search committee to hire two staff to fill new endowed chairs in systematic vertebrate biology.
Search Committee, Uppsala University, Sweden (1997-1998) External member of search committee to fill Chair of Systematic Zoology. Wrote final report on all applicants which was signed and dated in Sweden and is available publicly.
Willi Hennig Society.-- Associate Editor, *Cladistics* (1995-1998).
Journal of Biogeography. -- Editorial Board member and Associate Editor (1990 - 2008).
Ichthyological Society of Japan. -- Advisory Board, *Ichthyological Research* (1996 to present).
Linnean Society of London. -- Associate Editor, *Zoological Journal* (1998 to present).
American Institute of Biological Sciences.-- Co-ordinator of breakout session, Biological Challenges for the New Millennium, March 2000, National Museum of Natural History.
Content Advisor, American Museum of Natural History Symposium on Freshwater Biodiversity (2005).
Member, National Academy of Sciences US National Committee/DIVERSITAS (2004-2012).
Participant, NSF-sponsored MorphoBank Workshop (2001).
Member, NSF Systematic Biology Panel (2001).
Member, Board of Advisors, Killi-Data website (2001-).
Member, George Meyer Fund Award Committee (American Killifish Association) (2010-2012).
Participant, IUCN Indo-Burma hotspot biodiversity assessment workshop, Cambridge, UK (February 2011).

Member, Editorial Board, Species and Systematic Series, University of California Press (2008-2014), CRC Press (2014-).

Member, Academic Board of Editors, *peerj* (2012-).

Member, Committee of Visitors to review NSF DEB programs (June, 2012).

Member, Editorial Board, *Nature Scientific Reports* (2014-)

PROFESSIONAL SOCIETIES AND ACTIVITIES

American Association for the Advancement of Science (1984 -). Elected Fellow 2001; Attended Section on Biological Sciences meeting at 2003 AAAS meeting as AWIS representative.

American Association for Zoological Nomenclature (ca. 2000-).

American Killifish Association (1977-). Elected Honorary Member ca. 1985; Editorial Board, *Journal of the AKA* (1998); Panelist at 1998 AKA Convention, Syracuse, NY; Member, George Maier Award Committee (2010 -2013).

American Society of Ichthyologists and Herpetologists, Life Member (1976-) Judge, Stoye Award, General Ichthyology, 64th annual meeting (1984), Alternate Judge, 70th annual meeting (1990), Member, Judging Committee (1992); Editorial Board, *Copeia* (1985, 1987); Chair, Contributed paper sessions (1985-86, 1989-91; 2011; 2013); Board of Governors, Class of 1990, 2000; Committee on Student Awards (1985-86); Committee on Distinguished Fellow (1986); Chair and Judge, Stoye Award Poster Committee (1987); Chair and Judge, Storer Award in Ichthyology (1988, 1997); Local Committee, 1989; Organizer, contributed paper session in honor of D. E. Rosen (1989); Local Coordinator, Workshop on Biogeography of Neotropical Freshwater Fishes (1989); Gibbs Award Committee (1990-92), Chair (1992); Preparer (w/ R. P. Vari) of 'Careers in Ichthyology' pamphlet (1991); Raney Award Committee (Chair, 1993); Panelist, Women in Ichthyology and Herpetology (1994); Nominating Committee (1993-95, Chair 1995; 2001, 2006); Resolutions Committee (Chair, 1996;1998); Student mentor (1997, 1999). Committee on Honorary Foreign Member (1995-97; Chair, 1999-2001; 2015); Panelist, Graduate Student Forum on Foreign Fieldwork and Research (2000); MC, annual banquet (2001; 2010); Co-organizer, "Symposium in Honor of the Contributions to Systematic Ichthyology by Bruce B. Collette and Celebration of the 70th anniversary of his birth" (2004); Coordinated move of Newsletter of Systematic Ichthyology from California Academy of Sciences to DeepFin website; President-elect (2004); Executive Committee (2004-2007); President (2005); Past-President (2006); Prior Past-President (2007); Audit Committee, Chair (2008); Ad hoc Committee on Shorter Presentations (2009); Professional participant in speed-mentoring program for graduate students (2011, 2012). Nelson Award Committee (2014-2016).

Association for Women in Science (1976-). Attended Council meeting held as part of 2003 AAAS meetings.

Biological Society of Washington (1980-). Member of the Council (1993-1995; 2012-2015).

Cuban Zoological Society (ca. 2000-)

European Ichthyological Union (2004-)

Ichthyological Society of Japan (1996-)

Masyarakat Iktiologi Indonesia, honorary member (2010-).

International Association for Plant Taxonomy (2004-)

The International Biogeography Society (2006-)

Linnean Society of London, Fellow (1984-)

Sociedade Brasileira de Ictiologia (2003-)

Society for Integrative and Comparative Biology (formerly American Society of Zoologists) (1988-). Local Committee (1988); Chair, Division of Systematic Zoology (1994-95). Co-organizer, symposium on 'Phylogenetic systematics, biogeography and marine biodiversity,' 1995 annual meeting. Nominating Committee, Division of Systematic Zoology (1997).

Society of Systematic Biologists (formerly Society of Systematic Zoology) (1976-). --Council Member, class of 1989; Local representative, 1988 Annual Meeting; Nominating Committee (1990); Council Member, class of 2003; Member, ad hoc committee to review mini-PEET proposals (2003).

Systematic and Evolutionary Biogeography Society (2006-) (Founding Council member). One of the drafters of ICAN (International Code of Area Nomenclature) presented at first annual meeting, Paris, July 2007.

Washington Biologists' Field Club (1995-). One of first three women elected to membership. Member, Board of Managers (2001). Member, Audit Committee (2014).

Willi Hennig Society, Fellow (1984-). Member of the Council (1989; 1990-93); Acting Secretary (1990 annual meeting); Student Paper Judge (1990 annual meeting); Nominating Committee (1990-91); Co-organizer, symposium on 'Historical biogeography; a critique', 1998 annual meeting, Brazil; Chair, Nominating Committee (1998-99).

PROFESSIONAL PRESENTATIONS (SINCE 2000)

2000. *Cladistic biogeography of Sulawesi, Invited keynote lecture*, Southeast Asia Biogeography 2000, Leiden, Netherlands.

2000. *Crossing Wallace's Line: the continued search for biogeographic patterns in the Indo-Australian Archipelago, Invited lecture*, CETroB Symposium, Miami, FL.

2000. *Crossing Wallace's Line: cladistic biogeography meets island biogeography in the Indo-Australian Archipelago. Invited lecture*, SOS Dinner Forum, NMNH.

2002. *Phylogeny of the Atherinomorpha: evolution of a novel fish reproductive system*, VZ Seminar, NMNH.

2002. *Phylogeny of the Atherinomorpha: evolution of a novel fish reproductive system, Invited keynote lecture*, Second International Symposium on Livebearing Fishes.

2002. *Donn E. Rosen, Invited lecture*, Second International Symposium on Livebearing Fishes.

2003: *Evolution and phylogeny of gonad morphology in bony fishes. Invited presentation*, Symposium on *Patterns and Processes in the Evolution of Fishes*, SICB meetings, Toronto. L. R. Parenti [presenter] & H. J. Grier.

2003. *Phylogeny of gonad morphology in bony fishes, with an emphasis on the Atherinomorpha*. Symposium to celebrate the life and work of William Gosline. ASIH, Manaus. L. R. Parenti [presenter] & H. J. Grier.

2004. *Systematics of Reproductive Biology of Fishes*, **Invited lecture**, meeting on acanthomorph phylogeny. Musèum National d'Histoire Naturelle, Paris.
2004. *Recent advances in understanding the phylogeny of reproduction in bony fishes*, **Invited lecture**, Musèum National d'Histoire Naturelle, Paris.
2004. *Phylogeny of Reproduction in Bony Fishes*, **Invited seminar**. Department of Biological Sciences, George Washington University.
2005. *Phylogeny of Atherinomorphs; evolution of a novel reproductive system*. **Invited lecture**, Potomac Valley Aquarium Society, Fairfax, VA [public lecture].
2005. *The Hierarchy of Congruent Distribution Patterns of Fishes throughout the Indo-Australian Archipelago*. **Invited Keynote lecture**, 7th Indo-Pacific Fishes Conference, Taipei, Taiwan.
2005. *Common cause and historical biogeography*. **Invited lecture**, Systematics Association Symposium on "What is biogeography?", Cardiff, Wales, UK.
2005. *The relationship between phylogeny and biogeography of bony fishes*. **Invited Artedi Lecture**, Swedish Museum of Natural History, Stockholm.
2005. *Life history patterns and biogeography: evolution of diadromy*. **Invited lecture**, Missouri Botanical Garden Systematics Symposium, St. Louis.
2006. *A Sense of Scale (Past-Presidential Address)*, ASIH, New Orleans, LA.
2007. *Phylogeny and evolution of reproductive morphology of teleost fishes*, National Sun Yat Sen University, Taiwan [Invited presentation].
2007. *Patterns of gonad morphology, phylogeny and evolution in neoteleosts*, Parenti, L.R. [presenter] and H.J. Grier. ASIH, St. Louis, MO.
2008. *Phylogeny of the medaka and relatives: molecules versus morphology*, National Museum of Nature and Science, Tokyo, Japan, March [invited presentation at celebration of 130th anniversary of the museum].
2008. *Inferring Process from Pattern: The biogeography of Wallacea*, Linnean Society of London, England, October [invited presentation in symposium *Beyond Cladistics: A Festschrift for Chris Humphries*].
2009. *Phylogeny and Evolution of Reproductive Morphology of Bony Fishes*. School of Life Sciences, Arizona State University, Tempe, AZ, March [invited presentation].
2009. *Phylogeny of the Atherinomorpha: Evolution of A Novel Fish Reproductive System*. The 10th annual Southwest Area Killifish Event, Phoenix, AZ, March [invited presentation].

2009. *Darwin, Wallace and Biogeographic Classification*. ASIH, Portland, OR. [Invited presentation in symposium *Darwin at 200: A View from Ichthyology & Herpetology*]
2010. *Patterns of Morphology, Molecules and Endemism in Ricefishes*. Southeastern Louisiana University, Hammond, La [Invited annual “Superspeaker” chosen by Biology Graduate Students Organization].
2010. *Endemism and Conservation of Native Fish Faunas: Focus on Sulawesi, Indonesia*. Invited keynote speaker at Seminar Nasional Ikan V & Kongres Masyarakat Iktiologi Indonesia III, Cibinong, Indonesia.
2011. *Discovery and Description of an Endemic Freshwater Fish Biota (Belontiiformes: Adrianichthyidae) in Southeastern Sulawesi, Indonesia*. Parenti, L.R. [presenter], R. K. Hadiaty and D. Lumbantobing, ASIH, Minneapolis, MN.
2012. *Endemism and Conservation of the Native Fish Fauna of Sulawesi, Indonesia*. Invited lecture, Department of Biology, Kinki University, Nara, Japan.
2012. *Diversity and phylogeny of the Medaka, *Oryzias latipes*, and relatives*. Invited keynote speaker at symposium “What is Medaka?” Nagoya University Advanced Systems Biology Program and Higashiyama Zoo, Nagoya, Japan.
2012. *Darwin, Wallace and Biogeographic Classification*. Invited lecture, Nagoya University Advanced Systems Biology Program, Nagoya, Japan.
2012. *The Bright Beneath and X-Ray Vision*. Invited lecture. DASER (DC Art Science Evening Rendezvous), Cultural Programs of the National Academy of Sciences, Keck Center, Washington, D.C.
2012. *Darwin, Wallace and Biogeographic Classification*. Invited lecture. Virginia Institute of Marine Science, Gloucester Point, VA.
2012. *There’s no place like home: Biogeography in evolution and conservation*. NMNH Senate of Scientists April Lightning Round presentation.
2012. *Discovery of Areas of Endemism in the Indo-Australian Archipelago*. Invited lecture. Austral Biogeography Workshop, University of New South Wales, Sydney, Australia.
2013. *Everything you’ve always wanted to know about the Senate of Scientists, but were afraid to ask*. NMNH Senate of Scientists Dinner Forum, June 4.
2013. *Phylogenetic patterns of reproductive morphology in teleosts: the egg*. Parenti, L. R. [presenter], H. J. Grier and M-C Uribe, invited paper, Symposium on Fishes and Morphology Today, American Society of Ichthyologists and Herpetologists Annual Meeting, July, Albuquerque, NM.

2013. *The modern biogeographical legacy of Alfred Russel Wallace: Endemism, Terrane Fidelity and Area Classification*. Invited presentation at “Alfred Russel Wallace and his Legacy”, discussion meeting of the Royal Society, London, tribute to Wallace on the 100th anniversary of his death, October.

2014. *Endemism and Conservation of the Freshwater Fishes of Sulawesi, Indonesia*. Asian Fish Biodiversity Conference, Penang, Malaysia, February.

2014. *Fishes out of water: Phylogeny and Evolution of the Mudskippers*. Z. Jaafar and L. R. Parenti [presenter]. Invited presentation to NHRE Interns, June.

2014. *The Phylogeny and Diversity of the Atherinomorpha: Discoveries and Challenges*. Invited Keynote Lecture. Mexican Congress of Ichthyology, Morelia, Mexico, November.

2015. *There’s no place like home: Alfred Russel Wallace and his modern biogeographical legacy*. Invited lecture as Visiting Scholar, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA., February.

2015. *There’s no place like home: Alfred Russel Wallace and his modern biogeographical legacy*. Invited lecture, Department of Biology, University of Hawaii at Manoa, April.

2015. *Raising Cain: On the assumptions that inhibit scientific progress in comparative biogeography*. Symposium, Joint Meetings of Ichthyologists and Herpetologists, Reno, July.

2016. *The Future of Natural History Collections*. Invited keynote lecture, Linnean Society of London meeting at the Arnold Arboretum, Boston, May.

2016. *Out of Bounds*, Invited Plenary session presentation in symposium celebrating 100 years of the American Society of Ichthyologists and Herpetologists, New Orleans, July.

2016. *Phylogenetic Patterns of Reproductive Morphology in Teleosts*. Invited lecture in Coral and Fish Cryopreservation Master Class, Smithsonian Marine Station, Ft. Pierce, August.

2016. *The Future of Natural History Collections*. Invited lecture in Coral and Fish Cryopreservation Master Class, Smithsonian Marine Station, Ft. Pierce, August.

MENTORING ACTIVITIES:

Ph.D. Students

a. Co-advisor

Amy Downing Meisner, Ph.D. (1998) George Washington University, co-advisor. Amy was an RTP student and subsequently a Pew Fellow under my guidance. We participated in a field trip to Borneo in 1993.

Daniel Lumbantobing, Ph.D. (2013) George Washington University, co-advisor. I have supported Daniel's research through the Fish Division's Schultz and Axelrod funds and helped him receive funds from the DeepFin project. We participated in a field trip to Sulawesi in 2010.

b. Doctoral Committee member

Eduardo Rosa-Molinar, University of Nebraska Medical Center (1997), committee member.
Yazdan Keivany, Ph.D. University of Alberta (2000), external examiner.
Malte Ebach, Ph.D., University of Melbourne (2002), external examiner.
Tan Heok hui, Ph.D., National University of Singapore (2003), external examiner.
Agnès Dettai, Ph. D., Université de Paris and Muséum National d'Histoire Naturelle (2003-04), external examiner/*rapporteur*.
Leticia Huidobro, Ph.D. (2007) UNAM, México, committee member.
Visotheary Ung, Ph. D. Université de Paris (2013), external examiner/*rapporteur*.
Ryan Chabarria, Ph.D. Texas A&M, Corpus Christi, TX (2015), committee member.
Daniela Campanella, Ph.D. (2015), George Washington University, committee member.
Katie May Laumann, Ph.D. (2016), Virginia Institute of Marine Science, committee member.
Andrew Thompson, Ph.D. (2016), George Washington University, committee member.
Kirill Vinnikov, Ph.D. (in progress). University of Hawaii, Manoa, committee member.

Postdoctoral fellows

Jiakun Song, SI postdoctoral fellow, Division of Fishes (1992-94), principal advisor.

Koichi Hoshino, SI postdoctoral fellow, Division of Fishes (2000-01), principal advisor.

Zeehan Jaafar, Postdoctoral Fellow funded by the National University of Singapore, MENDAKI, a Singapore-based organization dedicated to the empowerment of minorities through excellence in education, and the Axelrod endowment, Division of Fishes (2012-2016), principal advisor.
<http://ourplanet.infocentral.state.gov>

Ricardo Betancur-R., Buck Postdoctoral Fellow, Division of Fishes (2013-15), co-advisor.

Research Training Program (NMNH)

Principal advisor to K. Rebecca Thomas (1996), Heidi Shoup (1998); co-advisor to Julianne Rowehl (2001), Amanda Cass (2003); alternate advisor to Kristina Louie and Jason Mezey (1993).

Minority Intern (NMNH)

Principal advisor to Richard Coleman (2011), University of Hawaii, Manoa.

Washington Biologists Field Club, Faculty sponsor for research awards:

Kenneth Able, Rutgers University, "Anadromous larval fish assemblages in a relatively unaltered estuary in the Mid-Atlantic Bight: Taxonomy, Phenology, Size and Stage," \$2,425 (2016).

Drew Ferrier, Hood College, Frederick, MD: "Determining Stream Habitat Suitability for Brook Trout Reproductive Success", \$1,500.00 (2015).

Patrick Ciccotto, University of Maryland Baltimore County: “Morphological and Distributional Assessments of *Cyprinella analostana* and *C. spiloptera* in the Potomac River and Mid-Atlantic States”, \$450.00 (2015).

Patrick Ciccotto, University of Maryland, Baltimore County: “Quantifying the Relative Contributions of Natural and Sexual Selection on Male Ornamentation Across Darter (Teleostei: Percidae) Lineages.” \$704. (2012)

Tracy Smith, University of Maryland, Baltimore County: “A comparison of epigenetic and genetic diversity and structure in urban and nonurban populations of a freshwater stream fish (*Etheostoma olmstedi*) in the Potomac basin” \$2731 (2012).

Cynthia O'Rourke, University of Maryland, Baltimore County: Sex Roles and the Operational Sex Ratio in the Fantail Darter, *Etheostoma flabellare*. \$2,266.75 (2010).

FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo, Brazil) students sponsored at NMNH:

Veronica Slobodian (May 2016 – May 2017), pimelodelid catfishes

Luix Peixoto (March - December 2016), comparative myology of ostraiophysan fishes

Karla Soares (February–June 2016), sharks of the genus *Scyliorhinus*

Renan Andrade Moreira (August – November 2015), batoid fishes

Priscilla Silva (April 2015-February 2016), characiform genus *Astyanax*

Carlos Oliveira (August - October 2015), characiform genus *Astyanax*

National Science Foundation's Louis Stokes Alliances for Minority Participation (LSAMP), Winter Workshop (2001), mentor to student in week-long program.

Smithsonian Artist Research Fellowship Program, Co-sponsored Shih Chieh Huang (September to November 2007) artist implementing principles of bioluminescence in installation projects (see www.messymix.com and <http://www.messymix.com/showvideo/smithsonian.php>).

Smithsonian Artist Research Fellowship Program, Principal sponsor of Annet Couwenberg (July through September 2014) fiber artist from the Maryland Institute College of Art, working on *The Skeleton and the Skin*. www.annetcouwenberg.com

Smithsonian Artist Research Fellowship Program, Principal sponsor of David Brooks (November 2016 through January 2017) artist from the Maryland Institute College of Art, working on *An Atlas of the Lost World*.

EXHIBIT DEVELOPMENT

Curator: “X-ray Vision: Fish Inside Out”, SITES exhibition comprising images of 40 fish radiographs and photographs by Sandra Raredon, opened at Peabody Museum, Yale University, July 2011; at NMNH February through August 2012, and various other venues. <http://www.sites.si.edu/exhibitions/exhibits/ichthyo/index.htm>

Curator: “The Bright Beneath”, Temporary exhibit for Sant Ocean Hall, comprising installations on bioluminescence by Shih Chieh Huang, SARF, September 2011 through January 2012.

www.messymix.com

Select other media:

On new species of *Phallostethus* from Viet Nam:

Canadian Broadcasting Interview (August 28 2012); www.cbc.ca/asithappens

National Geographic news blog: <http://news.nationalgeographic.com/news/2012/08/120827-genitalia-head-fish-sex-animals-science/>

COURSES TAUGHT

Part-time Instructor, Department of Biology, City College, City University of New York, September 1975 - May 1980. (Taught laboratory sections of five undergraduate biology courses: development, general biology, nonmajors biology, human anatomy/physiology, biomathematics).

Distinguished Visiting Scholar, San Francisco State University, Spring, 1987. (Taught graduate seminar on cladistics).

Adjunct Professor, Department of Biology, San Francisco State University, Fall, 1988 (Taught upper-division Biology of Fishes lecture and laboratory course); Fall, 1989 (Participated in graduate-level course in systematics).

Adjunct Professor, George Washington University (1994-). Mentored four graduate students; taught several one-credit tutorials on ichthyology, systematics and biogeography as part of joint graduate training program.

Panelist University of Puerto Rico, Rio Piedra, Career Pathways Workshop, organized by the Association of Graduate Students of Biology, June 2003.

Panelist Ecological Society of America, "Strategies for Ecology Education, Development and Sustainability" (SEEDS) Program panel discussion on careers, held at NMNH, November, 2003.

Lecturer Lectured on systematics of fish reproduction in course: Reproducción en Peces, Universidad Autónoma del Estados de Morelos, Cuernavaca, México, November, 2003.

Mini-Course on Biogeography Virginia Institute of Marine Science, College of William and Mary, February, 2015.

SESSION, SYMPOSIA, WORKSHOPS, FIELD SYMPOSIA, OR SCIENTIFIC MEETINGS ORGANIZED OR CHAIRED

Organizer and chair, contributed paper session in honor of Donn E. Rosen, American Society of Ichthyologists and Herpetologists annual meeting (1989).

Local Coordinator, Workshop on Biogeography of Neotropical Freshwater Fishes, American Society of Ichthyologists and Herpetologists annual meeting (1989).

Co-organizer, symposium on 'Interrelationships of Fishes' held at the annual meeting of the American Society of Ichthyologists and Herpetologists (1995). This symposium coincided with preparation of the edited volume by the same name.

Co-organizer, symposium on 'Phylogenetic systematics, biogeography and marine biodiversity,' for the annual meeting of the American Society of Zoologists (1995). With NMNH curator Jon Norenburg, I organized this symposium which presented a review of our knowledge of marine biodiversity from a phylogenetic systematic perspective. Some papers from the symposium were published in *Cladistics*.

Co-organizer, symposium on 'Historical biogeography: a critique,' for the annual meeting of the

Willi Hennig Society, São Paulo, Brazil (1998). Botanist Jorge Crisci, Argentina, and I organized a symposium to review advances in historical biogeography of the previous 20 years. **Co-organizer**, symposium on “Caribbean Clades and their Distributions,” for the Smithsonian Institution (2001). Michael L. Smith, Conservation International, and I organized the scientific program for a symposium on Caribbean biodiversity. The symposium coincided with preparation of the edited volume *Ecology of the Marine Fishes of Cuba* (Claro, Lindeman & Parenti, 2002).

Co-organizer, “Symposium in Honor of the Contributions to Systematic Ichthyology by Bruce B. Collette and Celebration of the 70th anniversary of his birth.” held at annual meetings of the American Society of Ichthyologists and Herpetologists, Norman, Oklahoma, May 2004. Co-organizer Tom Munroe, NMFS. Chaired morning session and was MC of evening dinner/roast.

Co-organizer, “Workshop on Enhancing SI Marine Collections Through Cryopreservation,” NMNH, 30-31 May 2012. Mary Hagedorn (NZP) and I organized this workshop, funded through the Grand Challenges, to address issues surrounding the collection and maintenance of cryopreserved tissues.

Organizer, “Senate of Scientists Dinner Forum Celebrating the Senate’s 50th year.” June 4, 2013.

Co-Organizer, JMIH Symposium on “Donn Rosen and the Assumptions that Inhibit Scientific Progress in Comparative Biology”, Reno, 2015.