

Reference

- Alarcón, J.A. and Alvarez, M.C. 1999. Genetic identification of sparid species by isozyme markers: application to interspecific hybrids. *Aquaculture* 173:95-103.
- Alves-Gomes, J., Orti, G., Haygood, M., Heiligenberg, W. and Mayer, A. 1995. Phylogenetic analysis of South American electric fishes (order: Gymnotiformes) and the evolution of their electrogenic system: a synthesis based on morphology, electrophysiology, and mitochondrial sequence data. *Mol. Biol. Evol.* 12: 298-318.
- Aquadro, C.F., and Greenberg, B.D. 1983. Human mitochondrial DNA variation and Evolution: analysis of nucleotide sequences from seven individuals. *Genetics* 103: 287-312.
- Arena, L., Montalvan, M., Espinosa, G., Gaxiola, G., Sánchez, A., Van Wormhoudt, A., Hernández, D., Díaz, R., and Rosas, C. 2003. Genetic relationship between *Litopenaeus setiferus* (L.) and *L. schmitti* (Burkenroad) determined by using 16S mitochondrial sequences and enzymatic analysis. *Aquaculture Res.* 34: 981-990.
- Austin, J.D., Loughheed, S.C., Tanner, K., Chek, A.A., Bogart, J.P. and Boag, P.T. 2002. A molecular perspective on the evolutionary affinities of an enigmatic neotropical frog, *Allophryne ruthveni*. *Zool. J. Linn. Soc.* 134: 335-346.
- Avise, J.C. 1986. Mitochondrial DNA and the evolutionary genetics of higher animals. *Phil. Trans. Roy. Soc. London B* 312: 325-342.

- Avise, J.C. 1994. *Molecular markers, Natural history and Evolution*. Chapman and Hall, London.
- Avise, J.C. 2000. *Phylogeography: the history and formation of species*. Harvard University Press, Cambridge, MA.
- Avise, J.C. and Lansman, R.A. 1983. Polymorphism of mitochondrial DNA in populations of higher animals. Pp. 147-164 in: *Evolution of Genes and Proteins*, Nei, M. and Koehn, R.K. (eds), Sinauer, Sunderland, MA.
- Avise, J.C. and Vrijenhoek, R.C. 1987. Mode of inheritance and variation of mitochondrial DNA in hybridogenetic fishes of the genus *Poeciliopsis*. *Mol. Biol. Evol.* 4:514-525.
- Avise, J.C., Arnold, J., Ball, R.M., Bermingham, E., Lamb, T., Neigel, J.E., Reeb, C.A. and Saunders, N.C. 1987a. Intraspecific phylogeography: the mitochondrial DNA bridge between population genetics and systematics. *Annu. Rev. Ecol. Syst.* 18: 489-522.
- Baldwin, J.D., Bass, A.L., Bowen, B.W., and Clark, W.H. 1998. Molecular Phylogeny and Biogeography of the Marine Shrimp *Penaeus*. *Mol. Phyl. Evol.* 10: 399-407.
- Ballard, J.W.O., Olsen, G.J., Faith, D.P., Odgers, W.A., Rowell, D.M. and Atkinson, P.W. 1992. Evidence from 12S ribosomal RNA sequences that onychophorans are modified arthropod. *Science* (Washington, DC) 258:1345-1348.
- Beard, C.B., Mills Hamm, D. and Collins, F.H. 1993. The mitochondrial genome of the mosquito *Anopheles gambiae*: DNA sequence, genome organization, and

- comparisons with mitochondrial sequences of other insects. *Insect Mol. Biol.* 2: 103-124.
- Benzie, J.A.H. 1999. Major genetic differences between crown-of thorns starfish (*Acanthaster planci*) populations in the Indian and Pacific Oceans. *Evolution* 53(6): 1782-1795.
- Birley, A.J. and Croft, J.H. 1986. Mitochondrial DNAs and phylogenetic relationships. Pp. 107-137 in: *DNA systematics*, Dutta, S.K. (ed.), CRC Press, Boca Raton, FL.
- Bowen, B.W., Clark, A.M., Abreu-Grobois, F.A., Chaves, A., Reichart, H.A. and Ferl, R.J. 1998. Global phylogeography of the ridley sea turtles (*Lepidochelys* spp.) as inferred from mitochondrial DNA sequences. *Genetica* 101: 179-189.
- Briggs, J.C. 1974. *Marine Zoogeography*. McGraw-Hill, New York.
- Briggs, J.C. 1995. *Global biogeography*. Developments in Paleontology and Stratigraphy, vol. 14. Elsevier, Amsterdam.
- Brimacombe, R., Greuer, B., Mitchell, P., Osswald, M., Rinke-Appel, J., Schuler, D. and Stade, K. 1990. Three-dimensional structure and function of *Escherichia coli* 16S and 23S rRNA as studied by crosslinking technique, pp. 73-92. In Hill, W. E., Dahlberg, A., Garrett, R. A., Moore, P. B., Schlesing, D. and Warner, J. R. (eds.), *The ribosome: structure, function and evolution*. American Society of Microbiology, Washington, DC.
- Brown, G.G. and Simpson, M.V. 1982. Novel features of animal mtDNA evolution as shown by sequences of two rat cytochrome oxidase subunit II genes. *Proc. Natl. Acad. Sci. USA* 79: 3246-3250.

- Brown, J.M., Abrahamson, W.G. and Way, P.A. 1996. Mitochondrial DNA phylogeography of host races of the goldenrod ball gallmaker, *Eurosta solidaginis* (Diptera: Tephritidae). *Evolution* 50: 777-786.
- Brown, J.M., Pellmyr, O., Thompson, J.N., Harrison, R.G. 1994. Mitochondrial DNA phylogeny of the Prodoxidae (Lepidoptera: Incurvariodea) indicates rapid ecological diversification of yucca moths. *Ann. Entomol. Soc. Am.* 87: 795-801.
- Brown, W. M. 1980. Polymorphism in mitochondrial DNA of humans as revealed by restriction endonuclease analysis. *Proc. Natl. Acad. Sci. USA* 77: 3605-3609.
- Brown, W.M., Prager, E.M., Wang, A., and Wilson, A.C. 1982. Mitochondrial DNA sequences primates: tempo and mode of evolution. *J. Mol. Evol.* 18: 225-239.
- Bruyn, M., Wilson, J.A. and Mather, P.B. 2004. Huxley's line demarcates extensive genetic divergence between eastern and western forms of the giant freshwater prawn, *Macrobrachium rosenbergii*. *Mol. Phylogenet. Evol.* 30: 251-257.
- Bucklin, A., Caudill, C.C. and Guarnieri, M. 1998. Population genetics and phylogeny of marine planktonic copepods. In: Cooksey, K.C. (ed.), *Molecular approaches to the study of the ocean*. London, Chapman and Hall. p.303-317.
- Cann, R.L., Brown, W.M. and Wilson, A.C. 1984. Polymorphic sites and the mechanism of evolution in human mitochondrial DNA. *Genetics* 106: 479-499.
- Carpenter, K.E. and Niem, V.H. 1998. *FAO Species Identification Guide for Fishery purposes. The Living Marine Resources of the Western Central Pacific* 2, 2nd

- ed. South Pacific Forum Fisheries Agency and the Norwegian Agency for International Development. FAO, Rome.
- Chaitiamvong, S. and Supongpan, M., 1992. A Guide to Penaeoid Shrimps Found in Thai waters. Australian Institute of Marine Science Townsville, Australia.
- Chong, V.C. and Sasekumar, A., 1982. On the identification of three morphospecies of prawns - *Penaeus merguensis* de Man, *Penaeus indicus* H. Milne Edwards and *Penaeus penicillatus* Alcock (Decapoda, Penaeidea). *Crustaceana*. 42, 127-141.
- Clary, O.O. and Wolstenholme, D.R. 1985. The mitochondrial DNA molecule of *Drosophila yakuba*: nucleotide sequence, gene organization, and genetic code. *J. Mol. Evol.* 22: 565-592.
- Cruickshank, R.H. 2002. Molecular markers for the phylogenetics of mites and ticks. *Syst. Appl. Acarol.* 7: 3-14.
- Customs Department, 2004. Total Quantity and Value of Exports, Fishery Products (fresh and frozen shrimp). Retrieved Feb 17, 2003 from the World Wide Web: <http://www.bot.or.th/bothomepage/databank/EconData/Econ&Finance/tab49.asp>
- Dall, W., Hill, B.J., Rothlisberg, P.C., Staples, D.J., 1990. The biology of the Penaeidae. In *Advances in Marine Biology* 27, Blaxter, J.H.S., Southward, A.J.(Ed.). Academic Press, London.
- Darnell, R., Lodish, H. and Baltimore, D. 1986. *Molecular Cell Biology*. Scientific American Books, New York.

- Daud, S.K. 1995. Population Genetics of *Penaeus monodon* Fabricius and *Penaeus merguensis* De Man in Malaysia. *PhD. Thesis*, University of Stirling, Scotland.
- Dawid, I.B. and Blackler, A.W. 1972. Maternal and cytoplasmic inheritance of mitochondrial DNA in *Xenopus*. *Dev. Biol.* 29: 152-161.
- DeSalle, R., Freedman, T. Prager, E.M. and Wilson, A.C. 1987. Tempo and mode of sequence evolution in mitochondrial DNA of Hawaiian *Drosophila*. *J. Mol. Evol.* 26:157-164.
- Desjardins, P. and Morais, R.1990. Sequence and gene organization of the chicken mitochondrial genome. *J. Mol. Biol.* 212:599-634.
- Douzery, E. and Catzeflis, F.M. 1995. Molecular evolution of the mitochondrial 12S rRNA in Ungulata (mammalia). *J. Mol. Evol.* 41: 622-636.
- Dowling, T. E. and Brown, W. M. 1993. Population structure of the bottlenose dolphin (*Tursiops truncatus*) as determined by restriction endonuclease analysis of mitochondrial DNA. *Mar. Mamm. Sci.* 9: 138-155.
- Dowling, T.E. and Childs, M.R. 1992. Impact of hybridization on a threatened trout of the southwestern United States. *Conserv. Biol.* 6: 355-364.
- Dowling, T.E., Moritz, C. and Palmer, J.D. 1990. Nucleic acids II: Restriction site analysis. pp. 250-317 In: *Molecular Systematics*, Hillis, D.M. and Moritz, C. (eds), Sinauer, Sunderland, MA.
- Echelle, A.A. and Dowling, T.E. 1992. Mitochondrial DNA evolution of the Death Valley pupfishes (*Cyprinodon*, Cyprinodontidae). *Evolution* 46:193-206.

- Eck, R.V. and Dayhoff, M.O. (ed.). 1966. Atlas of Protein Sequence and Structure 1966. *Natl. Biomed. Res. Found.* Silver Springs, Maryland.
- Elliott, N.G., Bartlett, J., Evans, B. and Sweijd, N.A. 2002. Identification of southern hemisphere abalone (*Haliotis*) species by PCR-RFLP analysis of mitochondrial DNA. *J. Shellfish Res.* 21(1): 219.
- Farfante, P.I. 1969. Western Atlantic shrimps of the genus *Penaeus*. Fish. Bull. US Fish and Wildlife Service. United States Department of Interior 67(3): 461-591.
- Fang, K., Yang, C.C., Lue, B.W., Chen, S.H. and Lue, K.Y. 2000. Phylogenetic Corroboration of Superfamily Lycosoidae Spiders (Araneae) as inferred from Partial Mitochondrial 12S and 16S Ribosomal DNA sequences. *Zool. Stud.* 39 (2): 107-113.
- Feder, J.L., Chilcote, C.A., and Bush, G.L. 1988. Genetic differentiation between sympatric host race of the apple maggot fly *Rhagoletis pomonella*. *Nature* 336:61-64.
- Felsenstein, J. 1988. Phylogenies from molecular sequences: Inference and reliability. *Annu. Rev. Genet.* 22:521-565.
- Felsenstein, J. 1993. PHYLIP (Phylogeny Inference Package) version 3.5 c. Distributed by the author. Department of Genetics, University of Washington, Seattle, USA.
- Fitch, W. M. 1977. On the problem of discovering the most parsimonious tree. *Am. Nat.* 111: 223-257.

- Fitch, W.M. 1981. A non-sequential method for constructing trees and hierarchical classifications. *J. Mol. Evol.* 18:30-37.
- Fitch, W.M. and Margoliash, E. 1967. Construction of phylogenetic tree. A method based on mutation distances as estimated from cytochrome c sequences is of general applicability. *Science* 155: 279-284.
- Funk, D.J., 1999. Molecular Systematics of Cytochrome Oxidase I and 16S from *Neochlamisus* Leaf Beetles and the Importance of Sampling. *Mol. Biol. Evol.* 16(1): 67-82.
- Gasser, R.B., Zhu, X. and McManus, D.P. 1999. NADH dehydrogenase subunit I and cytochrome c oxidase subunit I sequences compared for members of the genus *Taenia* (Cestoda). *Int. J. Parasitol.* 29: 1965-1970.
- Gatesy, J., Amato, G. Vrba, E., Schaller, G. and DeSalle, R. 1997. A cladistic analysis of mitochondrial ribosomal DNA from the Bovidae. *Mol. Phylogenet. Evol.* 7: 303-319.
- GenBank. Taxonomy of *Panaeus*. Retrieved Feb 18, 2004 from the World Wide Web: <http://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi>.
- Gennis, R.B. 1992. Sited-directed mutagenesis studies on subunit I of the aa3-type cytochrome c oxidase of *Rhodobacter sphaeroides*: a brief review of progress to date. *Biochim. Biophys. Acta.* 1101: 184-187.
- Georges, A., Birrell, J., Saint, K.M., McCord, W., Donnellan, S.C. 1999. A phylogeny for side-necked turtles (Chelonia: Pleurodira) based on mitochondrial and nuclear gene sequence variation. *Biol. J. Linn. Soc.* 67: 213-246.

- Ghiselin, M.T. 1988. The origin of molluscs in light of molecular evidence. *Oxford Surv. Evol. Biol.* 5:66-95.
- Giles, R.E., Blanc, H., Cann, H.M. and Wallace, D.C. 1980. Maternal inheritance of human mitochondrial DNA. *Proc. Natl. Acad. Sci. USA* 77: 6715-6719.
- Gillespie, R.G., Croom, H.B. and Palumbi, S.R. 1994. Multiple origin of a spider radiation in Hawaii. *Proc. Natl. Acad. Sci. USA* 91:2290-2294.
- Goodman, M. 1963. Serological analysis of the systematics of recent hominoids. *Human Biol.* 35:377-424.
- Greenberg, B.D., Newbold, J.E., and Sugino, A. 1983. Intraspecific nucleotide sequence variability surrounding the origin of replication in human mitochondrial DNA. *Gene* 21:33-49.
- Grey, D.L., Dall, W. and Baker, A., 1983. A Guide to the Australian Penaeid Prawns. Northern Territory Government Printing Office, Australia.
- Gusmão, J., Lazoski, C., and Solé-Cava, A.M. 2000. A new species of *Penaeus* (Crustacea: Penaeidae) revealed by allozyme and cytochrome oxidase I analyses. *Mar. Biol.* 137:435-446.
- Gyllensten, U.B., Wharton, D. and Wilson, A.C. 1985. Maternal inheritance of mitochondrial DNA during backcrossing of two species of mice. *J. Heredity* 76: 321-324.
- Halanych, K.M. and Robinson, T.J. 1997. Phylogenetic relationships of cottontails (*Sylvilagus*, *Lagomorpha*): congruence of 12S rDNA and cytogenetic data. *Mol. Phylogenet. Evol.* 7: 294-302.

- Hall, D.N.F. 1956. The Malayan Penaeidae. Part I. Introductory notes on the species of the genera *Solenocera*, *Penaeus* and *Metapenaeus*. *Bull. Raffles Mus.* 27: 66-90.
- Hamby, R.K., and Zimmer, E.A. 1992. Ribosomal RNA as a phylogenetic tool in plant systematics, pp. 50-91. *In* Soltis, P.S., Soltis, D.E. and Doyle, J.J. (eds.), *Molecular systematics of plants*. Chapman and Hall, New York.
- Hancock, J.M., Tautz, D. and Dover, G.A. 1988. Evolution of the secondary structures and compensatory mutations of the ribosomal RNAs of *Drosophila melanogaster*. *Mol. Biol. Evol.* 5:393-414.
- Harris, H. 1966. Enzyme polymorphisms in man. *Proceeding of the royal Society of London B.* 164:298-310.
- Harrison, R.G. 1989. Animal mitochondrial DNA as a genetic marker in population and evolutionary biology. *Trends Ecol. Evol.* 4:6-11.
- Hebert, P.D.N., Ratnasingham, S., deWaard, J.R. 2003. Barcoding animal life: cytochrome c oxidase subunit I divergences among closely related species. *Proc. R. Soc. Lon. B (Suppl.)* 270: S96-S99.
- Hillis, D.M. and Dixon, T.M. 1991. Ribosomal DNA molecular evolution and phylogenetic inference. *Q. Rev. Biol.* 66:411-453.
- Hillis, D.M., Bull, J.J., White, M.E., Badgett, M.R. and Molineux, I.J. 1992. Experimental phylogenetics: Generation of a known phylogeny. *Science* 255: 598-592.
- Hillis, D.M., Moritz, C. and Mable, B.K. 1996. *Molecular Systematics*. Sinauer Associates, Inc., Sunderland, USA.

- Hugall, A., Moritz, C., Stanton, J. and Wolstenholme, D.R. 1994. Low, but strongly structured mitochondrial DNA diversity in root knot nematodes (*Meloidogyne*). *Genetics* 136: 903-912.
- Hurwood, D.A., Hughes, J.M., Bunn, S.E. and Cleary, C. 2003. Population structure in the freshwater shrimp (*Paratya australiensis*) inferred from allozymes and mitochondrial DNA. *Heredity* 90: 64-70.
- Hutchison, C.A., Newbold, J.E., Potter, S.S. and Edgell, M.H. 1974. Maternal inheritance of mammalian mitochondrial DNA. *Nature* 251: 536-538.
- Johannesson, K., Rolan-Alvarez, E. and Ekendahl, A. 1995. Incipient reproductive isolation between two sympatric morphs of the intertidal snail *Littorina saxatilis*. *Evolution* 49: 1180-1190.
- Karl, S.A. and Avise, J.C. 1992. Balancing selection at allozyme loci in oysters: Implication from nuclear RFLPs. *Science* 256:100-102.
- Kessing, B.D. 1991. "Strongylocentrotid sea urchin mitochondrial DNA: Phylogenetic Relationships and patterns of molecular evolution". M.Sc. Dissertation, Department of Zoology, University of Hawaii, Honolulu, HI.
- Kim, W. and Abele, L.G. 1990. Molecular Phylogeny of selected decapod crustaceans based on 18S rRNA nucleotide sequences. *J. Crustacean Biol.* 10: 1-13.
- Kimura, M. 1968. Evolutionary rate at the molecular level. *Nature* 217: 624-626.
- Kimura, M. 1980. A simple method for estimating evolutionary rate of base substitutions through comparative studies of nucleotide sequences. *J. Mol. Evol.* 16: 111-120.

- Kimura, M. 1983. *The Neutral Theory of Molecular Evolution*. Cambridge Univ. Press, Cambridge, England.
- Klinbunga, S., Wudthijinda, W., Tassanakajon, A. and Jarayabhand, P. 1999. Anomalous Population Structure Patterns of the Giant Tiger Shrimp (*Penaeus monodon*) in the East of Peninsular Thailand: A Possible Consequence of Farming Activity and Transplantation. *The 1st National Symposium on Marine Shrimps*. 15-17 December. Songkla, Thailand, pp.208-219.
- Knowlton, N. 1993. Sibling species in the sea. *Annu. Rev. Ecol. Syst.* 24: 189-216.
- Knowlton, N. and Jackson, J. B. C. 1994. New taxonomy and niche partitioning on coral reefs: jack of all trades and master of some. *Trends Ecol. Evol.* 9: 7-9.
- Kocher, T.D., Thomas, W.K., Meyer, A., Edwards, S.V., Pääbo, S., Villablanca, F.X., and Wilson, A.C. 1989. Dynamics of mitochondrial DNA evolution in animals: amplification and sequencing with conserved primers. *Proc. Natl. Acad. Sci. USA* 86:6196-6200.
- Kraus, F. and Miyamoto, M.M. 1990. Mitochondrial genotype of a unisexual salamander of hybrid origin is unrelated to either of its nuclear haplotypes. *Proc. Natl. Acad. Sci. USA* 87:2235-2238.
- Langley, C.H., Montgomery, E. and Quattlebaum, W. 1981. Restriction map variation in the ADH region of *Drosophila*. *Proc. Natl. Acad. Sci. USA* 79:5631-5635.
- Larson, A., Wake, D.B., and Yanev, K.P. 1984. Measuring gene flow among populations having high levels of genetic fragmentation. *Genetics* 106: 293-308.

- Lavery, S. and Staples, D.J. 1990. Use of allozyme electrophoresis for identifying two species of penaeid prawn postlarvae. *Aust. J. Mar. Fresh. Res.* 41:259-66.
- Lavery, S., Moritz, C. and Fielder, D.R. 1996. Indo-Pacific population structure and evolutionary history of the coconut crab *Birgus latro*. *Mol. Ecol.* 5: 557-570.
- Ledje, C. and Arnason, U. 1996. Phylogenetic relationships within caniform carnivores based on analyses of the mitochondrial 12S rRNA gene. *J. Mol. Evol.* 43: 641-649.
- Leelapiyanart, N. 1988. "Taxonomy of penaeoid shrimps in Thailand". M.Sc. Dissertation, Chulalongkorn University, Bangkok.
- Lessios, H.A., Kessing, B.D., Robertson, D.R. and Paulay, G. 1999. Phylogeography of the Pantropical Sea Urchin *Eucidaris* in Relation to Land Barriers and Ocean Currents. *Evolution* 53(3): 806-817.
- Lewontin, R. and Hubby, J.L. 1966. A molecular approach to the study of genetic heterozygosity in natural populations II: amount of variation and degree of heterozygosity in natural populations of *Drosophila pseudoobscura*. *Genetics* 54:595-609.
- Li, W.-H., and Graur, D. 1991. *Fundamental of Molecular Evolution*. Sinauer, Sunderland, MA.
- Limcharearn, P. 1997. "Identification of Banana Prawn by Isozymes". Project in Bachelor of Science (Biotechnology), Faculty of Science, Prince of Songkla University, Thailand.
- Linton, Y.M., Mordue (Luntz), A.J., Cruickshank, R.H., Meiswinkel, R., Mellor, P.S. and Dallas, J.F. 2002. Phylogenetic analysis of the mitochondrial cytochrome

- oxidase subunit I gene of five species of the *Culicoides imicola* species complex. *Med. Vet. Entomol.* 16: 139-146.
- Livingstone, C.D. and Barton, G.J. 1993. Protein sequence alignment: a strategy for the hierarchical analysis of residue conservation. *Comput. Appl. Biosci.* 9:745-756.
- Machado, E.G., Dennebouy, N., Suarez, M.O., Mounolou, J.C. and Monnerot, M. 1993. Mitochondrial 16S-rRNA gene of two species of shrimps: sequence variability and secondary structure. *Crustaceana* 65(3): 279-286.
- Maggioni, R., Rogers, A., Maclean, N. and D'Incao, F. 2001. Molecular Phylogeny of Western Atlantic *Farfantepenaeus* and *Litopenaeus* Shrimp Based on Mitochondrial 16S Partial Sequences. *Mol. Phylogenet. Evol.* 18: 66-73.
- Margoliash, E. 1963. Primary structure and evolution of cytochrome c. *Proc. Natl. Acad. Sci. USA* 50: 672-679.
- Mathews, L.M., Schubart, C.D., Neigel, J.E. and Felder, D.L. 2002. Genetic, ecological, and behavioural divergence between two sibling snapping shrimp species (Crustacea: Decapoda: *Alpheus*). *Mol. Ecol.* 11: 1427-1437.
- Matson, R.H. 1984. Applications of electrophoretic data in avian systematics. *Auk*. 101: 717-729.
- McMillan, W.O. and Palumbi, S.R. 1995. Concordant evolutionary patterns among Indo-West Pacific butterfly fishes. *Proc. R. Soc. Lond.* 260: 229-236.
- Meyer, A., Kocher, T.D., Basasibwaki, P. and Wilson, A.C. 1990. Monophyletic origin of Lake Victoria cichlid fishes suggested by mitochondrial DNA sequence. *Nature* 347:550-553.

- Meyran, J.C., Monnerot, M. and Taberlet, P. 1997. Taxonomic Status and Phylogenetic Relationships of Some Species of the Genus *Gammarus* (Crustacea, Amphipoda) Deduced from Mitochondrial DNA Sequences. *Mol. Phylogenet. Evol.* 8(1): 1-10.
- Mindell, D.P., and Honeycutt, R.L. 1990. Ribosomal RNA in vertebrates: Evolution and phylogenetic applications. *Ann. Rev. Ecol. Syst.* 21: 541-566.
- Moritz, C. 1991. The origin and evolution of parthenogenesis in *Heteronotia binoei* (Gekkonidae): Evidence for recent and localized origins of widespread clones. *Genetics* 129: 221-223.
- Moritz, C., Dowling, T.E. and Brown, W.M. 1987. Evolution of animal mitochondrial DNA: relevance for population biology and systematics. *Annu. Rev. Ecol. Syst.* 18: 269-292.
- Mulley, J.C. and Latter, B.D.H. 1980. Genetic variation and evolutionary relationships within a group of thirteen species of penaeid prawns. *Evolution* 34: 904-916.
- Murata, M., Richardson, J.S. and Sussman, J.L. 1985. Simultaneous comparison of three protein sequences. *Proc. Natl. Acad. Sci USA* 82:3073-3077.
- Murphy, W.J. and Collier, G.E. 1996. Phylogenetic relationships within the aplocheiloid fishes genus *Rivulus* (Cyprinodontiformes, Rivulidae): implications for Caribbean and Central American biogeography. *Mol. Biol. Evol.* 13: 642-649.

- Murphy, W.J. and Collier, G.E. 1997. A molecular phylogeny for aplocheiloid fishes (Atherinomorpha, Cyprinodontiformes): the role of vicariance and the origins of annualism. *Mol. Biol. Evol.* 14: 790-799
- Muthu, M.S., and Rao, G.S. 1973. On the distinction between *P. indicus* H. Milne Edwards and *P. merguensis* de Man (Crustacea:Penaeidae) with special reference to juveniles. *Indian J. Fish.* 20: 61-69.
- Nei, M. 1975. *Molecular Population Genetics and Evolution*. North-Holland, Amsterdam.
- Noller, H.F., Moazed, D., Stern, S., Powers, T., Allen, P.N., Robertson, J.M., Weiser, B. and Triman, T. 1990. Structure of rRNA and its functional interactions in translation, pp. 73-92. In Hill, W.E., Dahlberg, A., Garrett, R.A., Moore, P.B., Schlesing, D. and Warner, J.R. (eds.), *The ribosome: structure, function and evolution*. American Society for Microbiology, Washington, DC.
- Nuttall, G.H.F. 1904. Blood immunity and Blood relationship. Cambridge University Press, Cambridge.
- Okimoto, R., Macfarlane, J.L., Clary, D.O., and Wolstenholme. 1992. The mitochondrial genome of two nematodes, *Caenorhabditis elegans* and *Ascaris suum*. *Genetics* 130: 471-498.
- Orr, M.R. and Smith, T.B. 1998. Ecology and speciation. *Trends Ecol. Evol.* 13:502-506.
- Pääbo, S., Thomas, W.K., Whitefield, K.M., Kumazawa, Y., and Wilson, A.C. 1991. Rearrangements of mitochondrial transfer RNA genes in marsupials. *J. Mol. Evol.* 33: 426-430.

- Page, R.D.M., Cruickshank, R. and Johnson, K.P. 2002. Louse (Insecta: Phthiraptera) mitochondrial 12S rRNA secondary structure is highly variable. *Insect Mol. Biol.* 11(4): 361-369.
- Palumbi, S.R. 1992. Marine speciation on a small planet. *Trends. Ecol. Evol.* 7: 114-121.
- Palumbi, S.R. 1997. Molecular biogeography of the Pacific. *Coral Reefs* 16 (Suppl.): 47-52.
- Palumbi, S.R., and Benzie, J. 1991. Large mitochondrial DNA differences between morphologically similar Penaeid shrimp. *Mol. Mar. Biol. Biotechnol.* 1: 27-34.
- Pardo, M.A. and Pérez Villareal, B. 2004. Identification of commercial canned tuna species by restriction site analysis of mitochondrial DNA products obtained by nested primer PCR. *Food Chem.* 86: 143-150.
- Pasteur, N., Bonhomme, F., Pasteur, G., Catalan, J. and Davidian, J.B. 1988. *Practical isozyme genetics*. English Edition Ellis Horwood Limited, West Sussex, England.
- Pendrey, R.C., Loneragan, N.R., Kenyon, R.A., and Vance, D.J., 1999. Simple morphometric characters, confirmed by gel electrophoresis, Separate small juvenile banana prawns (*Penaeus indicus* and *Penaeus merguensis*). *Mar. Freshwater. Res.* 50: 677-680.
- Pinto, J.D., Kazmer, D.J., Platner, G.R., and Sassaman, C.A. 1992. Taxonomy of the *Trichogramma minutum* complex (Hymenoptera: Trichogrammatidae): allozyme variation and its relationship to reproductive and geographic data. *Ann. Entomol. Soc. Am.* 85: 413-422.

- Redfield, J.A., Hedgecock, D., Nelson, K. and Salini, J.P. 1980. Low heterozygosity in tropical marine crustaceans of Australia and the trophic stability hypothesis. *Mar. Biol. Letter* 1: 303-313.
- Richardson, B.J., Baverstock, P.R., Adams, M., 1986. Allozyme electrophoresis: a handbook for animal systematics and population studies. Academic Press, Sydney.
- Rundle, H.D., Nagel, L. Boughman, J.W. and Schluter, D. 2000. Natural selection and parallel speciation in sympatric sticklebacks. *Science* 287: 306-308.
- Rungsithum, J. 1999. “ Molecular Markers for Identification of *Penaeus* species” M.Sc. Dissertation, Department of Biochemistry, Faculty of Science, Prince of Songkla University.
- Saccone, C., Pesole, G., Sbisa, E. 1991. The main regulatory region of mammalian mitochondrial DNA: structure-function model and evolutionary pattern. *J. Mol. Evol.* 33: 83-91.
- Saitou, N., Nei, M., 1987. The neighbor-joining method: a new method for reconstructing phylogenetic trees. *Mol. Biol. Evol.* 4: 406-425.
- Sambrook, J., Fritsch, E.F. and Maniatis, T. 1989. *Molecular Cloning: A Laboratory Cloning 2nd edition*. Cold Spring Harbor Laboratory, Cold Spring Harbor Press, New York.
- Saraste, M. 1990. Structural features of cytochrome oxidase. *Q. Rev. Biophys.* 23: 331-366.

- Satta, Y. and Takahata, N. 1990. Evolution of *Drosophila* mitochondrial DNA and the history of the melanogaster subgroup. *Proc. Natl. Acad. Sci. USA* 87: 9558-9562.
- Schliwen, U.K., Tautz, D. and Pääbo, S. 1994. Sympatric speciation suggested by monophyly of crater lake cichlids. *Nature* 368: 623-629.
- Schluter, D. 1994. Experimental evidence that competition promotes divergence in adaptive radiation. *Science* 266: 798-801.
- Schluter, D. and McPhail, J.D. 1993. Character displacement and replicate adaptive radiation. *Trends Ecol. Evol.* 8: 197-200.
- Schroeder, H., Klotzbach, H., Elias, S., Augustin, C., and Poeschel, K. 2003. Use of PCR-RFLP for differentiation of calliphorid larvae (Diptera, Calliphoridae) on human corpses. *Forensic Sci. Int.* 132: 76-81.
- Shaffer, H.B., Meylan, P. McKnight, M.L. 1997. Tests of turtle phylogeny: Molecular, morphological and paleontological approaches. *Syst. Biol.* 46:235-268.
- Shank, T.M., Black, M.B., Halanych, K.M., Lutz, R.A. and Vrijenhoek, R.C. 1999. Miocene Radiation of Deep-Sea Hydrothermal Vent Shrimp (Caridea: Bresiliidae): Evidence from Mitochondrial Cytochrome Oxidase Subunit I. *Mol. Phylogenet. Evol.* 13: 244-254.
- Shaw, C.R. 1965. Electrophoretic variation in enzymes. *Science* 149: 936-943.
- Sheatun, K. 1997. "Comparison of identification of Banana Prawn by Isozyme Electrophoresis and Physical Characterization". Project in Bachelor of Science (Biotechnology), Faculty of Science, Prince of Songkla University, Thailand.

- Siludjai, D., Klinbunga, S., Tassanakajon, A. and Jarayabhand, P. 1999. Genetic diversity and mtDNA patterns of a domesticated stock of the giant tiger shrimp (*Penaeus monodon*). *The 1st National Symposium on Marine Shrimps*. 15-17 December. Songkla, Thailand, pp.220.
- Simon, C. 1991. Molecular systematics at the species boundary: exploiting conserved and variable regions of the mitochondrial genome of animals via direct sequencing from enzymatically amplified DNA, pp.33-71. In Hewitt, G.M., Johnston, A.W.B and Young, J.P.W. (eds.), *Molecular Techniques in taxonomy*. NATO Advanced Studies Institute, H57. Springer, Berlin.
- Simon, C., Frati, F., Beckenbach, A., Crespi, B., Liu, H. and Flook, P. 1994. Evolution, Weighting, and Phylogenetic Utility of Mitochondrial Gene Sequences and a Compilation of Conserved Polymerase Chain Reaction Primers. *Ann. Entomol. Soc. America*. 87(6): 651-701.
- Simon, C., Pääbo, S., Kocher, T.D. and Wilson, A.C. 1990. Evolution of mitochondrial ribosomal RNA in insects as shown by the polymerase chain reaction, pp. 235-244. In Clegg, M. and O'Brien, S. (eds). *Molecular Evolution*. UCLA Symposium on molecular and Cellular Biology, New Series. Vol 122. Wiley-Liss, New York.
- Sneath, P.H.A. and Sokal, R.R. 1973. *Numerical Taxonomy*. W.H. Freeman, San Francisco.
- Sodsuk S, Sodsuk P. 1999. Genetic diversity and structure of banana prawn from three locations of Thailand. *The 1st National Symposium on Marine Shrimps*. 15-17 December. Songkla, Thailand, pp.194-203.

- Sogin, M.L., Elwood, H.J. and Gunderson, J.H. 1986. Evolutionary diversity of eukaryotic small-subunit rRNA genes. *Proc. Natl. Acad. Sci. USA* 83: 1383-1387.
- Sogin, M.L., Gunderson, J.H., Elwood, H.J., Alonso, R.A. and Peattie, D.A. 1989. Phylogenetic meaning of the kingdom concept: An unusual ribosomal RNA from *Giardia lamblia*. *Science* 243: 75-77.
- Sokal, R.R. and Michener, C.D. 1958. A statistical method for evaluating systematic relationships. *Univ. Kansas Sci. Bull.* 28: 1409-1438.
- Spears, T., Abele, L.G. and Kim, W. 1992. The monophyly of brachyuran crabs: A phylogenetic study based on 18S rRNA. *Syst. Biol.* 41: 446-461.
- Staton, J.L., Foltz, D.W. and Felder, D.L. 1999. Genetic variation in populations of the ghost shrimp genus *Lepidophthalmus* (Crustacea: Decapoda: Thalassinoidea). *J. Crustacean Biol.* 20(2):157-169.
- Taylor, D.B., Szalanski, A.L. and Peterson, R.D. 1996. Identification of screwworm species by polymerase chain reaction-restriction fragment length polymorphism. *Med. Vet. Entomol.* 10:63-70.
- Taylor, E.B. and McPhail, J.D. 1999. Evolutionary history of an adaptive radiation in species pairs of threespine sticklebacks (*Gasterosteus*): insight from mitochondrial DNA. *Biol. J. Linn. Soc.* 66: 271-291.
- Thai shrimp newspaper. 2003. Banana prawn. Retrieved Sep 16, 2003 from the World Wide Web:<http://www.sittogroup.com/thaishrimp/html>.

- Thompson, J.D., Higgins, D.G. and Gibson, T.J. 1994. Clustal W: improving the sensitivity of progressive multiple sequence weighting, position-specific gap penalties and weight metric choices. *Nucleic Acids Res.* 22: 4673-4680.
- Trang Fishery Office. 2002. White shrimp. Retrieved Feb 16, 2004 from the World Wide Web: <http://www.nicaonline.com>
- Turner, B.J. 1974. Genetic divergence of Death Valley pupfish species: Biochemical versus morphological evidence. *Evolution* 28: 281-294.
- Upholt, W.B. 1977. Estimation of DNA sequence divergence from comparison of restriction endonuclease digests. *Nucleic Acids Res.* 4: 1257-65.
- Wallace, D.C. 1986. Mitochondrial genes and disease. *Hosp. Pract.* 21: 77-92.
- Wanna, W., Rolland, J.L., Bonhomme, F. and Phongdara, A. 2004. Population Genetic Structure of *Penaeus merguensis* in Thailand Based on Nuclear DNA Variation. *J. Exp. Mol. Biol. Ecol.* (submitted)
- Ward, R.D., and Grewe, P.M. 1995. Appraisal of molecular genetic techniques in fisheries. In: Carvalho, G.R. and Pitcher, J. (Eds.), *Molecular genetic in fisheries*. Chapman and Hall, London, pp. 29-54.
- Wheeler, W.C. 1989. The systematics of insect ribosomal DNA, pp.307-321. In Fernholm, B., Bremer, K. and Jornvall, H (ed.), *The Hierarchy of Life*. Elsevier, Amsterdam.
- Wilding, C.S., Beaumont, A.R. and Latchford, J.W. 1999. Are *Pecten maximus* and *Pecten jacobaeus* different species. *J. Mar. Biol. Ass. U.K.* 79: 949-952.

- Williams, S.T. and Benzie, J.A.H. 1997. Indo-West Pacific patterns of genetic differentiation in the high dispersal starfish *Linckia laevigata*. *Mol. Ecol.* 6: 559-573.
- Wilson, A.C., Cann, R.L., Carr, S.M., George, M., Jr., Gyllensten, U.B., Helm-Bychowski, K.M., Higuchi, R.G., Palumbi, S.R., Prager, E.M., Sage, R.D., and Stoneking, M. 1985. Mitochondrial DNA and two perspectives on evolutionary genetics. *Biol. J. Linn. Soc.* 26: 375-400.
- Woese, C. R. 1987. Bacterial evolution. *Microbiol. Rev.* 51: 221-271.
- Wolf, C., Burgener, M., Hübner, P. and Lüthy, J. 2000. PCR-RFLP Analysis of Mitochondrial DNA: Differentiation of Fish Species. *Lebensm.-Wiss. u.-Technol.* 33: 144-150.
- Wolf, C., Hübner, P. and Lüthy, J. 1999. Differentiation of sturgeon species by PCR-RFLP. *Food Res. Int.* 32: 699-705.
- Xiong, B. and Kocher, T.D. 1993. Phylogeny of sibling species of *Simulium venustum* and *S. verecundum* (Diptera: Simuliidae) based on sequences of the mitochondrial large subunit rRNA gene. *Mol. Phylogenet. Evol.* 2(4): 293-303.
- Zehethofer, K. and Sturmbauer, C. 1998. Phylogenetic relationships of Central European wolf spiders (Araneae:Lycosidae) inferred from 12S ribosomal DNA sequence. *Mol. Phyl. Evol.* 10: 391-398.
- Zhao, J., Murphy, R.W. and Li, S. 2002. Relationships of mitten crabs (*Eriocheir*) from inland rivers of China inferred from cytochrome oxidase subunit I sequences. *Biochem. Syst. Ecol.* 30: 931-941.