

References

- Altizer, S., D. Harvell, and E. Friedle. 2003. Rapid evolutionary dynamics and disease threats to biodiversity. *Trends in Ecology & Evolution* **18**:589-596.
- Arakawa, H., A. Tsuji, M. Maeda, M. Kamahori, and H. Kambara. 1997. Analysis of single-strand conformation polymorphisms by capillary electrophoresis with laser induced fluorescence detection. *Journal of Pharmaceutical and Biomedical Analysis* **15**:1537-1544.
- Beaumont, M. A. 2005. Adaptation and speciation: what can Fst tell us? *Trends in Ecology & Evolution* **20**:435-440.
- Behnke, J. M., and F. N. Wahid. 1991. Immunological relationships during primary infection with *Heligmosomoides polygyrus* (*Nematospiroides dubius*): H-2 linked genes determine worm survival. *Parasitology* **103**:157-164.
- Bonneaud, C., J. Perez-Tris, P. Federici, O. Chastel, and G. Sorci. 2006. Major histocompatibility alleles associated with local resistance to malaria in a passerine. *Evolution* **60**:383-389.
- Burdon, J. J., and P. H. Thrall. 1999. Spatial and temporal patterns in coevolving plant and pathogen associations. *The American Naturalist* **153** S15–S33.
- Bynum, W. F. 1999. Ronald Ross and the malaria-mosquito cycle. *Parassitologia* **41**:49-52.
- Cattani, J. A., J. S. Moir, F. D. Gibson, M. Ginny, J. Paino, W. Davidson, and M. P. Alpers. 1986. Small-area variations in the epidemiology of malaria in Madang Province. *Papua New Guinea Medical Journal* **29**:11-17.
- Chen, C. Y., S. A. Cohen, M. B. Zaleski, and B. Albini. 1992. Genetic control of streptococcus-induced hepatic granulomatous in mice. *Immunogenetics* **36**:28-32.

- de Campos-Lima, P. O., R. Gavioli, Q. J. Zhang, L. E. Wallace, R. Dolcetti, M. Rowe, A. B. Rickinson, and M. G. Masucci. 1993. HLA-A11 epitope loss isolates of Epstein-Barr virus from a highly A11+ population. *Science* **260**:98-100.
- Dieckmann, U., M. Doebeli, J. A. J. Metz, and D. Tautz 2004. Adaptive speciation. Cambridge University press., Cambridge.
- Edwards, S. V., J. Nusser, and J. Gasper. 2000. Characterization and evolution of major histocompatibility complex (Mhc) genes in non-model organisms, with examples from birds. Pages 168-207 in A. J. Baker, editor. *Molecular Methods in Ecology*. Blackwell Science, Oxford, UK.
- Ekblom, R., S. A. Sæther, M. Grahn, P. Fiske, J. A. Kålås, and J. Höglund. 2007. Spatial pattern of MHC class II variation in the great snipe (*Gallinago media*). *Molecular Ecology* **16**:1439-1451.
- Epstein, P. R. 2001. Climate change and emerging infectious diseases. *Microbes and Infection* **3**:747-754.
- Excoffier, L., G. Laval, and S. Schneider. 2005. Arlequin (version 3.0): An integrated software package for population genetics data analysis. *Evolutionary Bioinformatics Online* **1**:47-50.
- Excoffier, L., P. E. Smouse, and J. M. Quattro. 1992. Analysis of Molecular Variance inferred from metric distances among DNA haplotypes: application to human mitochondrial DNA restriction data. *Genetics* **131**:479-491.
- Garrigan, D., and P. W. Hedrick. 2003. Perspective: detecting adaptive molecular polymorphism: lessons from the MHC *Evolution* **57**:1707-1722.
- Gemmell, N. J., and S. Akiyama. 1996. An efficient method for the extraction of DNA from vertebrate tissues *Trends in Genetics* **12**:338-339.
- Grant, P. R., B. R. Grant, J. N. M. Smith, I. J. Abbott, and L. K. Abbott. 1976. *Darwin's Finches: Population Variation and Natural Selection*. PNAS

73:257-261.

- Hay, S. I., C. A. Guerra, A. J. Tatem, A. M. Noor, and R. W. Snow. 2004. The global distribution and population at risk of malaria: past, present, and future. *The Lancet Infectious Diseases* **4**:327-336.
- Hill, A. V. S., A. Jepson, M. Plebanski, and S. C. Gilbert. 1997. Genetic analysis of host–parasite coevolution in human malaria. *Philosophical Transactions of the Royal Society B: Biological Sciences* **352**:1317-1325.
- Huang, Y.-J., C. Chen, and S.-H. Li. 2004. Polymorphic tetranucleotide microsatellite loci in the Hwamei (*Garrulax canorus canorus*) (*Timaliidae*). *Molecular Ecology Notes* **4**:170-172.
- Hughes, A. L. 1999. Adaptive evolution of genes and genomes. Oxford University Press, New York.
- Kawecki, T. J., and D. Ebert. 2004. Conceptual issues in local adaptation. *Ecology Letters* **7**:1225-1241.
- Kleindorfer, S., S. Lambert, and D. C. Paton. 2006. Ticks (*Ixodes sp.*) and blood parasites (*Haemoproteus spp.*) in New Holland Honeyeaters (*Phylidonyris novaehollandiae*): evidence for site specificity and fitness costs. *Emu* **106**:113-118.
- Kumar, S., K. Tamura, and M. Nei. 2004. MEGA3: Integrated software for Molecular Evolutionary Genetics Analysis and sequence alignment. *Brief Bioinform* **5**:150-163.
- Land, J. V. t., P. V. Putten, Zwaan, Kamping, and W. V. Delden. 1999. Latitudinal variation in wild populations of *Drosophila melanogaster*: heritabilities and reaction norms. *Journal of Evolutionary Biology* **12**:222-232.
- Ledig, F. T., and D. R. Korbobo. 1983. Adaptation of sugar maple populations along altitudinal gradients: photosynthesis, respiration, and specific leaf weight.

- American Journal of Botany **70**:256-265.
- Lively, C. M. 1992. Parthenogenesis in a freshwater snail: reproductive assurance versus parasitic release. *Evolution* **46**:907-913.
- Macnair, M. R. 1987. Heavy metal tolerance in plants: A model evolutionary system. *Trends in Ecology & Evolution* **2**:354-359.
- Marzal, A., F. d. Lope, C. Navarro, and A. P. Møller. 2005. Malarial parasites decrease reproductive success: an experimental study in a passerine bird. *Oecologia* **142**:541-545.
- McClelland, E. E., D. J. Penn, and W. K. Potts. 2003. Major Histocompatibility Complex Heterozygote Superiority during Coinfection. *Infect. Immun.* **71**:2079-2086.
- Meyer, D., and G. Thomson. 2001. How selection shapes variation of the human major histocompatibility complex: a review. *Annals of Human Genetics* **65**:1-26.
- Miaud, C., and J. Merilä. 2000. Local adaptation or environmental induction? Causes of population differentiation in Alpine amphibians. *Biota* **2**:31-50.
- Miller, K. M., K. H. Kaukinen, T. D. Beacham, and R. E. Withler. 2001. Geographic heterogeneity in natural selection on an MHC locus in sockeye salmon. *Genetica* **111**:237-257.
- Molineaux, L., and G. Gramiccia. 1980. The Gharki project: research on the epidemiology and control of malaria in sudan savanna of West Africa. World Health Organisation, Geneva.
- Oleksyn, J., M. G. Tjoelker, and P. B. Reich. 1998. Adaptation to Changing environment in Scots pine populations across a latitudinal gradient. *Silva Fennica* **32**:129-140.
- Onori, E., and B. Grab. 1980. Indicators for the forecasting of malaria epidemics.

- Bulletin of World Health Organisation **58**:91-98.
- Palo, J. U., R. B. O'Hara, A. T. Laugen, A. Laurila, C. R. Primmer, and J. Merila. 2003. Latitudinal divergence of common frog (*Rana temporaria*) life history traits by natural selection: evidence from a comparison of molecular and quantitative genetic data. *Molecular Ecology* **12**:1963-1978.
- Prugnolle, F., A. Manica, M. Charpentier, J. F. Guégan, V. Guernier, and F. Balloux. 2005. Pathogen-driven selection and worldwide HLA class I diversity. *Current Biology* **15**:1022-1027.
- Rätti, O., R. Dufva, and R. Alatalo. 1993. Blood parasites and male fitness in the pied flycatcher. *Oecologia* **96**:410-414.
- Raymond, M., and F. Rousset. 1995. GENEPOP (Version 1.2): Population Genetics Software for Exact Tests and Ecumenicism. *J Hered* **86**:248-249.
- Rudge, D. 1999. Taking the Peppered Moth with a Grain of Salt. *Biology and Philosophy* **14**:9-37.
- Ruiz, X., D. Oro, and J. González-Solís. 1995. Incidence of a *Haemoproteus lari* parasitemia in a threatened gull: *Larus audouinii*. *Ornis Fennica* **72**:159-164.
- Rundle, H. D., and P. Nosil. 2005. Ecological speciation. *Ecology Letters* **8**:336-352.
- Seutin, G., B. N. White, and P. T. Boag. 1991. Preservation of avian blood and tissue samples for DNA analysis. *Canadian journal of zoology* **69**:82-90.
- Sokal, R. R., and F. J. Rohlf 1995. *Biometry: the principles and practice of statistics in biological research*. W. H. Freeman and Company, New York.
- Van Oosterhout, C., D. A. Joyce, S. M. Cummings, J. Blais, N. J. Barson, I. W. Ramnarine, R. S. Mohammed, N. Persad, and J. Cable. 2006. Balancing selection, random genetic drift, and genetic variation at the major histocompatibility complex in two wild populations of guppies (*Poecilia reticulata*). *Evolution* **60**:2562-2574.

- Waldenström, J., S. Bench, D. Hasselquist, and Ö. Östman. 2004. A nested polymerase chain reaction method vary efficient in detecting *Plasmodium* and *Haemoproteus* infections from avian blood. *Journal of Parasitology* **90**:191-194.
- Warner, R. E. 1968. The role of introduced disease in the extinction of the endemic Hawaiian avifauna. *The Condor* **70**:101-120.
- Wegner, K. M., T. B. H. Reusch, and M. Kalbe. 2003. Multiple parasites are driving major histocompatibility complex polymorphism in the wild. *Journal of Evolutionary Biology* **16**:224-232.
- Westerdahl, H., B. Hansson, S. Bensch, and D. Hasselquist. 2004. Between-year variation of MHC allele frequencies in great reed warblers: selection or drift? *Journal of Evolutionary Biology* **17**:485-492.
- Westerdahl, H., J. Waldenström, B. Hansson, D. Hasselquist, T. von Schantz, and S. Bensch. 2005. Associations between malaria and MHC genes in a migratory songbird. *Proceedings of the Royal Society B: Biological Sciences* **272**:1511-1518.
- Williams, G. C. 1966. *Adaptation and natural selection*. Princeton University press, Princeton.
- Wiwanitkit, V. 2006. Correlation between prevalence of malaria and altitude, a study in a rural endemic area of Thailand. *Haema* **9**:56-58.
- Woodworth, B. L., C. T. Atkinson, D. A. LaPointe, P. J. Hart, C. S. Spiegel, E. J. Tweed, C. Henneman, J. LeBrun, T. Denette, R. DeMots, K. L. Kozar, D. Triglia, D. Lease, A. Gregor, T. Smith, and D. Duffy. 2005. Host population persistence in the face of introduced vector-borne diseases: Hawaii amakihi and avian malaria. *PNAS* **102**:1531-1536.
- Yeung, C., H. Yi-Jiun, and L. Shou-Hsien. 2004. Development of polymorphic

microsatellite markers for the Steere's Liocichla (*Liocichla steerii*). Molecular Ecology Notes **4**:420-422.

Yuhki, N., and S. J. O'Brien. 1990. DNA variation of the mammalian major histocompatibility complex reflects genomic diversity and population history. PNAS **87**:836-840.