

## Supplemental Bibliography

- Adest, G. A. (1987) Genetic differentiation among populations of the zebratail lizard, *Callisaurus draconoides* (Sauria: Iguanidae). *Copeia* 1987:854–859.
- Aguilars-S., M. A., Sites, J. W., Jr., and Murphy, R. W. (1988) Genetic variability and population structure in the lizard genus *Petrosaurus*. *Journal of Herpetology* 22:135–145.
- Aguirre, G. L., Morafka, D. J., and Murphy, R. W. (1999) The Peninsular archipelago of Baja California: A thousand kilometers of tree lizard genetics. *Herpetologica* 55:369–381.
- Alvarez-Castañeda, S. T. (2010) Phylogenetic structure of the *Thomomys bottae-umbrinus* complex in North America. *Molecular Phylogenetics and Evolution* 54:671–679.
- Alvarez-Castañeda, S. T., and Cortes-Calva, P. (2011) Genetic evaluation of the Baja California rock squirrel *Otospermophilus atricapillus* (Rodentia: Sciuridae) *Zootaxa* 3138:35–51.
- Alvarez-Castañeda, S. T., and Patton, J. L. (2004) Geographic genetic architecture of pocket gopher (*Thomomys bottae*) populations in Baja California, Mexico. *Molecular Ecology* 13:2287–2301.
- Alvarez-Castañeda, S. T., and Rios, E. (2011) Revision of *Chaetodipus arenarius* (Rodentia: Heteromyidae). *Zoological Journal of the Linnean Society* 161:213–228.
- Alvarez-Castañeda, S. T., Lidicker, W. Z., Jr., and Rios, E. (2009) Revision of the *Dipodomys merriami* complex in the Baja California peninsula, Mexico. *Journal of Mammalogy* 90:992–1008.
- Blair, C., Mendez-de la Cruz, F. R., Ngo, A., Lindell, J., Lathrop, A., and Murphy, R. W. (2009) Molecular phylogenetics and taxonomy of leaf-toed geckos (Phyllodactylidae: Phyllodactylus) inhabiting the Peninsula of Baja California. *Zootaxa* 2027:28–42.

- Bryson, R. W., Jr., Jaeger, J. R., Lemos-Espinal, J. A., and Lazcano, D. (2012) A multilocus perspective on the speciation history of a North American aridland toad (*Anaxyrus punctatus*). *Molecular Phylogenetics and Evolution* 64:393–400.
- Clark-Tapia, R., and Molina-Freaner, F. (2003) The genetic structure of a columnar cactus with a disjunct distribution: *Stenocereus gummosus* in the Sonoran Desert. *Heredity* 90:443–450.
- Correa-Ramirez, M. M., Jimenez, M .L., and Garcia-De Leon, F. J. (2010) Testing species boundaries in *Pardosa sierra* (Araneae: Lycosidae) using female morphology and COI mtDNA. *Journal of Arachnology* 38:538–554.
- Crews, S. C., and Hedin, M. (2006) Studies of morphological and molecular phylogenetic divergence in spiders (Araneae: Homalonychus) from the American Southwest, including divergence along the Baja California Peninsula. *Molecular Phylogenetics and Evolution* 38:470–487.
- Devitt, T. J. (2006) Phylogeography of the Western Lyresnake (*Trimorphodon biscutatus*): Testing aridland biogeographical hypotheses across the Nearctic-Neotropical transition. *Molecular Ecology* 15:4387–4407.
- Douglas, M. E., Douglas, M. R., Schuett, G. W., and Porras, L. W. (2006) Evolution of rattlesnakes (Viperidae: Crotalus) in the warm deserts of western North America shaped by Neogene vicariance and Quaternary climate change. *Molecular Ecology* 15:3353–3374.
- Dragoo, J. W., Lackey, J. A., Moore, K. E., Lessa, E. P., Cook, J. A., and Yates, T. L. (2006) Phylogeography of the deer mouse (*Peromyscus maniculatus*) provides a predictive framework for research on hantaviruses. *Journal of General Virology* 87:1997–2003.

- Fehlberg, S. D., and Ranker, T. A. (2009) Evolutionary history and phylogeography of *Encelia farinosa* (Asteraceae) from the Sonoran, Mojave, and Peninsular Deserts. *Molecular Phylogenetics and Evolution* 50:326–335.
- Fleming, T. H., Maurice, S., and Hamrick, J. L. (1998) Geographic variation in the breeding system and the evolutionary stability of trioecy in *Pachycereus pringlei* (Cactaceae). *Evolutionary Ecology* 12:279–289.
- Garrick, R. C., Nason, J. D., Meadows, C. A., and Dyer, R. J. (2009) Not just vicariance: Phylogeography of a Sonoran Desert euphorb indicates a major role of range expansion along the Baja peninsula. *Molecular Ecology* 18:1916–1931.
- Garrick, R. C., Nason, J. D., Fernandez-Manjarres, J. F., and Dyer, R. J. (2013) Ecological coassociations influence species' responses to past climatic change: An example from a Sonoran Desert bark beetle. *Molecular Ecology* 22:3345–3361.
- Graham, M. R., Jaeger, J. R., Prendini, L., and Riddle, B. R. (2013) Phylogeography of the Arizona hairy scorpion (*Hadrurus arizonensis*) supports a model of biotic assembly in the Mojave Desert and adds a new Pleistocene refugium. *Journal of Biogeography* 40:1298–1312.
- Grismer, L. L. (1999) An evolutionary classification of reptiles on islands in the Gulf of California, Mexico. *Herpetologica* 55:446–469.
- Hocutt, G.D. (2000) “Reinforcement of Premating Barriers to Reproduction between *Drosophila arizonae* and *Drosophila mojavensis*.” Ph.D. dissertation, Arizona State University, Tempe.

- Hollingsworth, B. D. (1999) “The Molecular Systematics of the Side-Blotched Lizards (Iguania: Phrynosomatidae: *Uta*).” Ph.D. dissertation, Loma Linda University, Loma Linda, California.
- Hurtado, L. A., Erez, T., Castrezana, S., and Markow, T. A. (2004) Contrasting population genetic patterns and evolutionary histories among sympatric Sonoran Desert cactophilic *Drosophila*. *Molecular Ecology* 13:1365–1375.
- Jaeger, J. R., Riddle, B. R., and Bradford, D. F. (2005) Cryptic Neogene vicariance and Quaternary dispersal of the red-spotted toad (*Bufo punctatus*): Insights on the evolution of North American warm desert biotas. *Molecular Ecology* 14:3033–3048.
- Jezkova, T., Jaeger, J. R., Marshall, Z. L., and Riddle, B. R. (2009) Pleistocene impacts on the phylogeography of the desert pocket mouse (*Chaetodipus penicillatus*). *Journal of Mammalogy* 90:306–320.
- Klimova, A., Munguia-Vega, A., Hoffman, J. I., and Culver, M. (2014) Genetic diversity and demography of two endangered captive pronghorn subspecies from the Sonoran Desert. *Journal of Mammalogy* 95:1263–1277.
- Klymus, K. E., and Gerhardt, H. C. (2012) AFLP markers resolve intra-specific relationships and infer genetic structure among lineages of the canyon treefrog, *Hyla arenicolor*. *Molecular Phylogenetics and Evolution* 65:654–667.
- Latch, E. K., Heffelfinger, J. R., Fike, J. A., and Rhodes, O. E., Jr. (2009) Species-wide phylogeography of North American mule deer (*Odocoileus hemionus*): Cryptic glacial refugia and postglacial recolonization. *Molecular Ecology* 18:1730–1745.

- Leache, A. D., and Mulcahy, D. G. (2007) Phylogeny, divergence times and species limits of spiny lizards (*Sceloporus magister* species group) in western North American deserts and Baja California. *Molecular Ecology* 16:5216–5233.
- Leache, A. D., Koo, M. S., Spencer, C. L., Papenfuss, T. J., Fisher, R. N., and McGuire, J. A. (2009) Quantifying ecological, morphological, and genetic variation to delimit species in the coast horned lizard species complex (*Phrynosoma*). *Proceedings of the National Academy of Sciences* 106:12418–12423.
- Leavitt, D. H., Bezy, R. L., Crandall, K. A., and Sites, J. W., Jr. (2007) Multi-locus DNA sequence data reveal a history of deep cryptic vicariance and habitat-driven convergence in the desert night lizard *Xantusia vigilis* species complex (Squamata: Xantusiidae). *Molecular Ecology* 16:4455–4481.
- Lindell, J., Mendez-de la Cruz, F. R., and Murphy, R. W. (2005) Deep genealogical history without population differentiation: Discordance between mtDNA and allozyme divergence in the zebra-tailed lizard (*Callisaurus draconoides*). *Molecular Phylogenetics and Evolution* 36:682–694.
- Maldonado, J. E., Vila, C., and Wayne, R. K. (2001) Tripartite genetic subdivisions in the ornate shrew (*Sorex ornatus*). *Molecular Ecology* 10:127–147.
- Markow, T. A., and Castrezana, S. (2000) Dispersal in cactophilic *Drosophila*. *Oikos* 89:378–386.
- Markow, T. A., Castrezana, S., and Pfeiler, E. (2002) Flies across the water: Genetic differentiation and reproductive isolation in allopatric desert *Drosophila*. *Evolution* 56:546–552.

- McGuire, J. A., Linkem, C. W., Koo, M. S., Hutchison, D. W., Lappin, A. K., Orange, D. I., Lemos-Espinal, J., Riddle, B. R., and Jaeger, J. R. (2007) Mitochondrial introgression and incomplete lineage sorting through space and time: Phylogenetics of crotaphytid lizards. *Evolution* 61:2879–2897.
- Mulcahy, D. G. (2008) Phylogeography and species boundaries of the western North American nightsnake (*Hypsiglena torquata*): Revisiting the subspecies concept. *Molecular Phylogenetics and Evolution* 46:1095–1115.
- Mulcahy, D. G., and Macey, J. R. (2009) Vicariance and dispersal form a ring distribution in nightsnakes around the Gulf of California. *Molecular Phylogenetics and Evolution* 53:537–546.
- Mulcahy, D. G., Spaulding, A. W., Mendelson, J. R., 3rd, and Brodie, E. D., Jr. (2006) Phylogeography of the flat-tailed horned lizard (*Phrynosoma mcallii*) and systematics of the *P. mcallii-platyrrhinus* mtDNA complex. *Molecular Ecology* 15:1807–1826.
- Murphy, R. W. (1983) Paleobiogeography and genetic differentiation of the Baja California herpetofauna. *Occasional Papers of the California Academy of Sciences* 137:1–48.
- Nason, J. D., Hamrick, J. L., and Fleming, T. H. (2002) Historical vicariance and postglacial colonization effects on the evolution of genetic structure in lophocereus, a Sonoran Desert columnar cactus. *Evolution* 56:2214–2226.
- Navarro-Quezada, A., Gonzalez-Chauvet, R., Molina-Freaner, F., and Eguiarte, L. E. (2003) Genetic differentiation in the *Agave deserti* (Agavaceae) complex of the Sonoran Desert. *Heredity* 90:220–227.
- Olah-Hemmings, V., Jaeger, J. R., Sredl, M. J., Schlaepfer, M. A., Jennings, R. D., Drost, C. A., Bradford, D. F., and Riddle, B. R. (2010) Phylogeography of declining relict and lowland

- leopard frogs in the desert Southwest of North America. *Journal of Zoology* 280:343–354.
- Petren, K., and Case, T. J. (1997) A phylogenetic analysis of body size evolution and biogeography in chuckwallas (*Sauromalus*) and other iguanines. *Evolution* 51:206–219.
- Petren, K., and Case T. J. (2002) Updated mtDNA Phylogeny for *Sauromalus* and Implications for the Evolution of Gigantism. In Case, T. J., Cody, M. L., and Ezcurra, E. (eds.), *A New Island Biogeography of the Sea of Cortés*. Oxford University Press, New York. Pp. 574–579.
- Pfeiler, E., Bitler, B. G., Ramsey, J. M., Palacios-Cardiel, C., and Markow, T. A. (2006) Genetic variation, population structure, and phylogenetic relationships of *Triatoma rubida* and *T. recurva* (Hemiptera: Reduviidae: Triatominae) from the Sonoran Desert insect vectors of the Chagas' disease parasite *Trypanosoma cruzi*. *Molecular Phylogenetics and Evolution* 41:209–221.
- Pfeiler, E., Bitler, B. G., Castrezana, S., Matzkin, L. M., and Markow, T. A. (2009) Genetic diversification and demographic history of the cactophilic pseudoscorpion *Dinocheirus arizonensis* from the Sonoran Desert. *Molecular Phylogenetics and Evolution* 52:133–141.
- Pfeiler, E., Flores-Lopez, C. A., Mada-Velez, J. G., Escalante-Verdugo, J., and Markow, T. A. (2013) Genetic diversity and population genetics of mosquitoes (Diptera: Culicidae: *Culex* spp.) from the Sonoran Desert of North America. *Scientific World Journal* 2013:1–11.
- Pfeiler, E., Johnson, S., Richmond, M. P., and Markow, T. A. (2013) Population genetics and phylogenetic relationships of beetles (Coleoptera: Histeridae and Staphylinidae) from the

- Sonoran Desert associated with rotting columnar cacti. *Molecular Phylogenetics and Evolution* 69:491–501.
- Pfeiler, E., Richmond, M. P., Riesgo-Escovar, J. R., Tellez-Garcia, A. A., Johnson, S., and Markow, T. A. (2013) Genetic differentiation, speciation, and phylogeography of cactus flies (Diptera: Neriidae: *Odontoloxozus*) from Mexico and south-western USA. *Biological Journal of the Linnean Society* 110:245–256.
- Pyron, R. A., and Burbrink, F. T. (2009) Lineage diversification in a widespread species: Roles for niche divergence and conservatism in the common kingsnake, *Lampropeltis getula*. *Molecular Ecology* 18:3443–3457.
- Radtkey, R. R. (1997) Character displacement in some Cnemidophorus lizards revisited: A phylogenetic analysis. *Proceedings of the National Academy of Sciences* 94:9740–9745.
- Recuero, E., Martinez-Solano, I., Parra-Olea, G., and Garcia-Paris, M. (2006) Phylogeography of *Pseudacris regilla* (Anura: Hylidae) in western North America, with a proposal for a new taxonomic rearrangement. *Molecular Phylogenetics and Evolution* 39:293–304.
- Riddle, B. R., Hafner, D. J., and Alexander, L. F. (2000a) Comparative phylogeography of Baileys' pocket mouse (*Chaetodipus baileyi*) and the *Peromyscus eremicus* species group: Historical vicariance of the Baja California Peninsular Desert. *Molecular Phylogenetics and Evolution* 17:161–172.
- (2000b) Phylogeography and systematics of the *Peromyscus eremicus* species group and the historical biogeography of North American warm regional deserts. *Molecular Phylogenetics and Evolution* 17:145–160.



- Riddle, B. R., Hafner, D. J., Alexander, L. F., and Jaeger, J. R. (2000) Cryptic vicariance in the historical assembly of a Baja California peninsular desert biota. *Proceedings of the National Academy of Sciences* 97:14438–14443.
- Rios, E., and Alvarez-Castañeda, S. T. (2010) Phylogeography and systematics of the San Diego pocket mouse (*Chaetodipus fallax*). *Journal of Mammalogy* 91:293–301.
- Rodriguez-Robles, J. A., and De Jesus-Escobar, J. M. (2000) Molecular systematics of New World gopher, bull, and pinesnakes (Pituophis: Colubridae), a transcontinental species complex. *Molecular Phylogenetics and Evolution* 14:35–50.
- Ross, C. L., and Markow, T. A. (2006) Microsatellite variation among diverging populations of *Drosophila mojavensis*. *Journal of Evolutionary Biology* 19:1691–1700.
- Segraves, K. A., and Pellmyr, O. (2001) Phylogeography of the yucca moth *Tegeticula maculata*: The role of historical biogeography in reconciling high genetic structure with limited speciation. *Molecular Ecology* 10:1247–1253.
- Sinclair, E. A., Bezy, R. L., Bolles, K., Camarillo, J. L., Crandall, K. A., Sites, J. W., Jr. (2004) Testing species boundaries in an ancient species complex with deep phylogeographic history: Genus *Xantusia* (Squamata: Xantusiidae). *American Naturalist* 164:396–414.
- Smith, C. I., and Farrell, B. D. (2005) Range expansions in the flightless longhorn cactus beetles, *Moneilema gigas* and *Moneilema armatum*, in response to Pleistocene climate changes. *Molecular Ecology* 14:1025–1044.
- Stephen, C. L., Devos, J. C., Lee, T. E., Jr., Bickham, J. W., Heffelfinger, J. R., Rhodes, O. E., Jr. (2005) Population genetic analysis of Sonoran pronghorn (*Antilocapra americana sonoriensis*). *Journal of Mammalogy* 86:782–792.

- Trepanier, T. L., and Murphy, R. W. (2001) The Coachella valley fringe-toed lizard (*Uma inornata*): Genetic diversity and phylogenetic relationships of an endangered species. *Molecular Phylogenetics and Evolution* 18:327–334.
- Trujano-Alvarez, A. L., and Alvarez-Castaneda, S. T. (2007) Taxonomic revision of *Thomomys bottae* in the Baja California Sur lowlands. *Journal of Mammalogy* 88:343–350.
- (2013) Phylogenetic structure among pocket gopher populations, genus *Thomomys* (Rodentia: Geomyidae), on the Baja California Peninsula. *Zoological Journal of the Linnean Society* 168:873–891.
- Upton, D. E., and Murphy, R. W. (1997) Phylogeny of the side-blotched lizards (Phrynosomatidae: *Uta*) based on mtDNA sequences: Support for a midpeninsular seaway in Baja California. *Molecular Phylogenetics and Evolution* 8:104–113.
- Walker, M. L., Chirhart, S. E., Moore, A. F., Honeycutt, R. L., and Greenbaum, I. F. (2006) Genealogical concordance and the specific status of *Peromyscus sejugis*. *Journal of Heredity* 97:340–345.
- Weyandt, S. E., and Van Den Bussche, R. A. (2007) Phylogeographic structuring and volant mammals: The case of the pallid bat (*Antrozous pallidus*). *Journal of Biogeography* 34:1233–1245.
- Whorley, J. R., Alvarez-Castaneda, S., and Kenagy, G. J. (2004) Genetic structure of desert ground squirrels over a 20-degree-latitude transect from Oregon through the Baja California peninsula. *Molecular Ecology* 13:2709–2720.
- Wilson, J. S., Clark, S. L., Williams, K. A., and Pitts, J. P. (2012) Historical biogeography of the arid-adapted velvet ant *Sphaerophthalma arota* (Hymenoptera: Mutillidae) reveals cryptic species. *Journal of Biogeography* 39:336–352.

- Wood, D. A., Meik, J. M., Holycross, A. T., Fisher, R. N., and Vandergast, A. G. (2007) Molecular and phenotypic diversity in *Chionactis occipitalis* (Western Shovel-nosed Snake), with emphasis on the status of *C. o. klauberi* (Tucson Shovel-nosed Snake). *Conservation Genetics* 9:1489–1507.
- Wood, D. A., Fisher, R. N., and Reeder, T. W. (2008) Novel patterns of historical isolation, dispersal, and secondary contact across Baja California in the Rosy Boa (*Lichanura trivirgata*). *Molecular Phylogenetics and Evolution* 46:484–502.
- Zink, R. M., and Blackwell, R. C. (1998) Molecular systematics and biogeography of aridland gnatcatchers (genus *Polioptila*) and evidence supporting species status of the California gnatcatcher (*Polioptila californica*). *Molecular Phylogenetics and Evolution* 9:26–32.
- Zink, R. M., Lott, D. F., and Anderson, D. W. (1987) Genetic variation, population structure and evolution of California quail. *Condor* 89:395–405.
- Zink, R. M., Blackwell, R. C., and Rojas-Soto, O. (1997) Species limits in the Le Conte's Thrasher. *Condor* 99:132–138.
- Zink, R. M., Barrowclough, G. F., Atwood, J. L., and Blackwell-Rago, R. C. (2000) Genetics, taxonomy, and conservation of the threatened California gnatcatcher. *Conservation Biology* 14:1394–1405.
- Zink, R. M., Kessen, A. E., Line, T. V., and Blackwell-Rago, R. C. (2001) Comparative phylogeography of some aridland bird species. *Condor* 103:1–10.
- Zink, R. M., Rising, J. D., Mockford, S., Horn, A. G., Wright, J. M., Leonard, M., and Westberg, M. C. (2005) Mitochondrial DNA variation, species limits, and rapid evolution of plumage coloration and size in the Savannah Sparrow. *Condor* 107:21–28.

Zink, R. M., Groth, J. G., Vazquez-Miranda, H., and Barrowclough, G. F. (2013)

Phylogeography of the California gnatcatcher (*Polioptila californica*) using multilocus DNA sequences and ecological niche modeling: Implications for conservation. *Auk* 130:449–458.

Zouros, E. (1973) Genetic differentiation associated with the early stages of speciation in the mulleri subgroup of *Drosophila*. *Evolution* 27:601–621.