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Warren Johnson earned his Ph.D. in Animal Ecology from Iowa State University in 1992 after receiving an M.S. in Wildlife Ecology from Utah State University in 1984 and a B.A. in Biology from Oberlin College in 1983. He has been with the Laboratory of Genomic Diversity since 1992, first as a visiting scientist from the National Zoological Park, Smithsonian Institution. Warren has traveled extensively studying wildlife species and collecting samples for studies on infectious disease, mammalian evolution, comparative genomics, and genetic mapping in model organisms. The primary objective of his research is to develop and utilize comparative genomics and phylogenetic tools for taxonomic, adaptive, and hereditary disease inference. We are completing development of a radiation hybrid (RH) map of the alpaca and are coordinating the annotation of the recently completed whole genome sequence which will facilitate the study of inherited traits in camelids and related ungulate species, including several related to human disorders.

Publications related to Camelid (Last ten years)

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2. **Johnson, W.E**. and P. Perelman. (**2007)**. The Alpaca Enters the Genomic Era: Development of a Radiation-Hybrid Map. Alpaca Magazine. Autumn: 234-239.

3. Sarno, R., L. Villalba, C. Bonacic, B. Gonzalez, B. Zapata, D. W. Macdonald, S. J. O'Brien, and **W. E. Johnson. (2003)**. Phylogeography and subspecies assessment of vicuñas in Chile and Bolivia utilizing mtDNA and microsatellite markers: implications for vicuña conservation and management. Conservation Genetics. 5:89-102.

4. Sarno, R.J., W.L. Franklin, S.J. O'Brien, and **W.E. Johnson. (2001)**. Patterns of mtDNA and microsatellite variation in an island and mainland population of guanacos in southern Chile. Animal Conservation. 4:93-101.

5. Sarno, R. J., V. A. David, W. L. Franklin, S. J. O'Brien, and **W. E. Johnson. (2000)**. Development of microsatellite markers in the guanaco, *Lama guanicoe*: utility for South American camelids. Journal of Molecular Ecology. 9:1919-1952.

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7. Sarno, R.J., W.R. Clark, M.E. Bank, W.S. Prexl, M.J. Behl, **W.E. Johnson**, and W.L. Franklin. (**1999)**. Juvenile guanaco survival: management and conservation implications. Journal of Applied Ecology. 36:937-945.