ROBERT KEITH WAYNE

**PERSONAL DATA** **ADDRESS**

Born: February 29, 1956 Terasaki Life Sciences Building

Boston, Massachusetts 610 Young Drive South

Male, married Dept. of Ecology & Evolutionary Biology

Phone: 310-206-0334 (W) 825-5014 (Lab) University of California

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**ACADEMIC DEGREES**

Ph.D. 1984 The Johns Hopkins University. Thesis title: A Comparative Study of

Skeletal Growth and Morphology in Domestic and Wild Canids.

B.A. 1978 The Johns Hopkins University: Earth and Planetary Science.

**POSITIONS HELD**

Professor, University of California at Los Angeles 1998 -

Associate Professor, University of California at Los Angeles 1994 - 97

Assistant Professor, University of California at Los Angeles 1992 - 94

Head of Conservation Genetics, Zoological Society of London 1990 - 93

Research Associate, Los Angeles County Museum of Natural History 1988 -

Research Associate, University of California at Los Angeles 1988 - 92

Research Biologist, National Cancer Institute 1985 - 87

Post-doctoral Investigator, National Cancer Institute 1984 - 85

**APPOINTMENTS**

HHMI Professor 2018 -

Editorial Board, Environmental DNA 2018-

Director, UC Conservation Genomics Consortium 2016 -

Member of Council, American Genetic Association 2014 - 17

Wilhelmine Key Distinguished Lecture Award 2011

Bingzhi Forum Professor (Institute of Zoology, Beijing) 2011

Member of Council, American Genetic Association 2000 - 03

Editor, Molecular Ecology 2000 -

Associate Editor, Molecular Ecology 1998 - 00

Research Fellow, Zoological Society of London 1997 -

Editor, Animal Conservation 1997 - 03

Honorary Fellow, California Academy of Science 1996 -

Editorial Board, Ancient Biomolecules Journal 1994 - 98

Editorial Board, Molecular Ecology 1994 - 2000

Associate Editor, Journal of Heredity 1992 -

Research Associate, Los Angeles County Museum of Natural History 1991 -

Editor, Ancient DNA Newsletter 1991 - 94

IUCN, Member, Captive Breeding Specialist Group, Canid Specialist Group 1990 -

**RECENT AWARDS**

HHMI Research and Education Award (1.5M joint with Beth Shapiro) 2018 - 23

UC Presidents Catalyst Award (1.77M) (PI with 4 co-PIs 2016 - 19

National Science Foundation (GSS) ($229K, co-PI with 3 co-PIs, one PI) 2018 - 20

National Science Foundation (DEB) ($149K, PI with one co-PI)) 2016 - 19

National Science Foundation (IOS) ($754K PI and 3 co-PIs) 2014 - 18

National Science Foundation (EAGER) ($130K) 2010 - 15

National Science Foundation (w/John Novembre) ($757K) 2010 - 15

State of California, Forensic laboratory ($135K) 2012 - 14

National Science Foundation (w/Beth Shapiro (PI)) ($125K) 2012 - 14

National Science Foundation (w/John Novembre) ($885K) 2007 - 11

National Science Foundation (w/Flynn, VanValkenbugh) ($592K) 2006 - 10

National Science Foundation (w/Koch, Groves, Leonard) ($768K) 2004 - 08

**PAST POST-DOCS, RESEARCHERS, AND GRADUATE STUDENTS**

Pauline Charruau, Post-doc (Post doctoral researcher, Lausanne)

Wenping Zhang, Post-doc (Assist Prof. Chengdu, IOZ)

Yibo Hu, Post-doc (Assist Prof. Beijing, IOZ)

Bridgett vonHoldt, Post-doc and graduate student (Assist. Prof. Princeton University)

Adam Freedman, Post-doc (bioinformatic researcher, Harvard Univ.)

Olaf Thulmann, Post-doc (Assist. Prof. Poznań, Poland )

Klaus Koepfli, Post-doc and graduate student (Researcher, Smithsonian Inst.)

Carolyne Bardeleben, Post-doc (Senior Researcher, UCLA)

Eli Geffen, Post-doc (Professor, Tel Aviv University)

Carles Vila, Post-doc (Professor, Estación Biológica de Doñana, Seville)

Borja Mila, Post-doc (Group leader, Museo Nacional de Ciencias Naturales, Madrid)

Mike Bruford, Post-doc (Professor, Cardiff University)

Michael Roy, Post-doc (Associate Professor, Otago University)

Niles Lehman, Graduate student (Associate Professor and Chair, Portland State University)

Derek Girman, Graduate student (Associate Professor, Sonoma State)

Lisa Torres, Graduate student (Associate Professor, Cal State LA)

Gary Roemer, Graduate student (Associate Professor, New Mexico State University)

Michael Kohn, Graduate student (Associate Professor, Rice University)

Jennifer Leonard, Graduate student (Research Professor, Estación Biológica de Doñana, Seville)

Andres Aguilar, Graduate student (Associate Professor, Cal State LA)

Jesus Maldonado, Graduate student (Senior Research Scientist, Smithsonian Institution)

Isabel Amorim, Graduate student (Post-doc, University of Azores)

Gary Shin, Graduate student, (Lecturer, Cal State Long Beach)

Deb Pires, Graduate student, (Lecturer, UCLA Biology Core)

Katy Semple, Delaney Graduate student ,(Resource Biologist, National Park Service, Los Angeles)

Imelda Nava, Graduate student (Lecturer, UCLA Science Teacher Program)

Melissa Gray, Graduate student (Post-doc, University of Wisconsin)

Kerry Deere, Graduate student (Post-doc, Princeton)

Karen Kapheim, Graduate student (Assist Prof., Utah State)

Dan Stahler, Graduate student (Research Biologist, Yellowstone NP)

Rena Schweizer, Graduate student (Post-doc, Univ. of Montana)

Rachel Johnson, Graduate student (Post-doc, Duke)

Jacqueline Robinson, Graduate student (Post-doc, UCSF)

Sergio Nigenda, Graduate student (Post-Doc, [Guanajuato, México](https://twitter.com/search?q=place%3Aef05e80eeff9b3c1))

**CURRENT LAB MEMBERS**

Rachel Meyer, Executive Director, UC Conservation Genomic Consortium (eDNA, plant genomics)

Alice Mouton, Post-doc (gene expression methylation, dogs and bobcats)

Emily Curd, Post-doc (environmental DNA)

Ana Garcia, Post-doc (eDNA, Scientific Education)

Maura Palacios Mejia, Post-doc (eDNA, Scientific Education)

Devaughn Fraser (Population genomics of bobcats, Deer and bats)

Tiffany Armenta (Gene expression in marmots)

Annabel Beichman (Sea otter genomics)

Daniel Chavez (Canid phylogeny, genes under selection)

Gabriela Medeiros (Genomics and gene expression in marmots)

Audra Huffmeyer (Sperm genomics and gene expression)

Meixi Lin (eDNA using mammal capture arrays)

Tina Del Capra (Functional genomics with cell culture)

Chris Kyriazis (Conservation genomics, deleterious variation in inbred populations of mammals)

Teia Schweizer (Technician and researcher)

Currently, 4 undergraduate researchers

**REFERENCES**

Dr. Stephen O'Brien, Chief

Chief Scientific Officer

Theodosius Dobzhansky Center for Genome Bioinformatics

St. Petersburg  State University

41 Sredniy Prospekt

St. Petersburg, Russia 199004

Email: lgdchief@gmail.com

Dr. Elaine A. Ostrander

Head, Comparative Genetics Section

Chief, Cancer Genetics Branch

NHGRI/NIH

50 South Drive, MSC 8000, Building 50, Room 5351

Bethesda MD 20892-8000 (Tel: 301-594-5284), (FAX: 301-480-0472)

Email: eostrand@mail.nih.gov

Professor David Macdonald DSc FRSE

Zoology, University of Oxford

The Recanati-Kaplan Centre

Tubney House, Abingdon Road

Tubney, Abingdon OX13 5QL, UK (Tel: +44 (0)1865 393 100), (FAX: +44 (0)1865 393 101)

Email: david.macdonald@zoo.ox.ac.uk

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| 1. | Wayne, R.K. Cranial morphology of domestic and wild canids: the influence of development on morphological change. Evolution *40*(2):243-261 (1986).  | **Research article** |
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| 2. | Wayne, R.K., Modi, W.S. and O'Brien, S.J. Morphological variability and asymmetry in the cheetah (*Acinonyx jubatus*), a genetically uniform species. Evolution *40*(1):78-85 (1986). | **Research article** |
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| 3. | Wayne, R.K. Limb morphology of domestic and wild canids: the influence of development on morphologic change. J. Morphology *187*:301-319 (1986).  | **Research article** |
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| 4. | Wayne, R.K., Forman, L., Neuman, A.K., Simonson, J.M., and O'Brien, S.J. Genetic monitors of zoo populations: morphological and electrophoretic assays. Zoo Biology *5*:215-232 (1986).  | **Research article** |
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| 5. | Wayne, R.K., and O'Brien, S.J. Empirical demonstration that structural gene and morphometric variation of mandible traits are uncoupled between mouse strains. J. Mammalogy *67* (3):441-449 (1986).  | **Research article** |
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| 6. | Wayne, R.K. Developmental constraints on limb growth in domestic and some wild canids. J. Zoology *210*:381-399 (1986).  | **Research article** |
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| 7. | Wayne, R.K. Origins of the domestic dog: the fossil record by S.J. Olsen. 1985. The University of Arizona Press: Tucson. American Scientist *74*:316-317 (1986). | **Book review** |
|  |  |  |
| 8. | Wayne, R.K. Conservation Biology: the Science of Scarcity and Diversity. Editor, M.E. Soule. 1986. Sinauer Press: Sunderland. J. Wildlife Diseases *24*:186-187 (1987). | **Book review** |
|  |  |  |
| 9. | Modi, W.S. , Wayne, R.K., and O'Brien, S.J. Analysis of fluctuating asymmetry in the cheetah. Evolution *41*:227-228 (1987).  | **Research article** |
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| 10. | Wayne, R.K., Nash, W.G., and O'Brien, S.J. Chromosomal evolution of the Canidae: I. Species with high diploid numbers. Cytogenetics and Cell Genetics *44*:123-133 (1987). | **Research article** |
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| 11. | Wayne, R.K., Nash, W.G., and O'Brien, S.J. Chromosomal evolution of the Canidae: II. Divergence from the primitive *carnivore karyotype*. Cytogenetics and Cell Genetics *44*:134-141 (1987).  | **Research article** |
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| 12. | Wayne, R.K. and O'Brien, S.J. Allozyme divergence within the Canidae. Systematic Zoology *36*:339-355 (1987).  | **Research article**  |
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| 13. | Modi, W.S., Fanning, T.S., Wayne, R.K., and O'Brien, S.J. Chromosomal localization of satellite DNA sequences among twenty-two species of felids and canids (Carnivora). Cytogenetics and Cell Genetics *48*:208-213 (1988).  | **Research article** |
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| 14. | Fanning, T.S., Modi, W.S., Wayne, R.K., and S.J. O'Brien. Evolution of heterochromatic-associated satellite DNA loci in felids and canids (*Carnivora*). Cytogenetics and Cell Genetics *48*:214-219 (1988).  | **Research article** |
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| 15. | Wayne, R.K., Benveniste, R.E., and O'Brien, S.J. Molecular and biochemical evolution of the Carnivora. In: Carnivore Behavior, Ecology and Evolution (J. L. Gittleman, ed.) Cornell University Press. Pp. 465-494 (1989).  | **Refereed review** |
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| 16. | Wayne, R.K., Kat, P.W., Fuller, T.K., Van Valkenburgh, B., and O'Brien, S.J. Genetic and morphologic divergence among sympatric canids (*Mammalia: Carnivora*). J. Heredity *80*:447-454 (1989). | **Research article** |
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| 17. | Fuller, T.K., Biknevicius, A.R., Kat, P.W., Van Valkenburgh, B., and Wayne, R.K. The ecology of three sympatric jackal species in the Rift Valley of Kenya. African J. Ecology *27*:313-323 (1989).  | **Research article** |
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| 18. | Wayne, R.K., Van Valkenburgh, B., Fuller, T.K., and Kat, P.W. Allozyme and morphologic differences among highly divergent mtDNA haplotypes of black-backed jackals. In: Molecular Evolution (M. Clegg and S.J. O'Brien, eds.) UCLA Symposium on Cellular Biology, New Series, 122. Pp. 161-170 (1990).  | **Research article** |
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| 19. | Wayne, R.K., Meyer, A., Lehman, N., Van Valkenburgh, B., Kat, P.W., Fuller, T.K., Girman, D., and O'Brien, S.J. Large sequence divergence among mitochondrial DNA genotypes within populations of East African black-backed jackals. Proc. Natl. Acad. Sci. USA. *87*:1772-1776 (1990). | **Research article** |
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| 20. | Gilbert, D.A., Lehman, N., O'Brien, S.J., and Wayne, R.K. Genetic fingerprinting reflects population differentiation in the Channel Island Fox. Nature *344*:764-767 (1990). | **Research article** |
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| 21. | O'Brien, S.J., Benveniste, R.E., Nash, W.G., Martenson, J.S., Eichenberger, M.A., Wildt, D.E., Bush, M., Wayne, R.K., and Goldman, D. Molecular biology and evolutionary theory: the giant panda's closest relatives. In: New Perspectives on Evolution (L. Warren and H. Koprowski, eds.) The Wistar Symposium Series, Volume 4, Wiley-Liss, New York. Pp. 225-250. (1990).  | **Refereed review** |
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| 22. | Lehman, N., Eisenhawer, A., Hansen, K., Mech, D.L., Peterson, R.O., and Wayne, R.K. Introgression of coyote mitochondrial DNA into sympatric North American gray wolf populations. Evolution *45*:104-119 (1991). | **Research article** |
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| 23. | Wayne, R.K., Van Valkenburgh, B., and O'Brien, S.J. Molecular distance and divergence time in carnivores and primates. Molecular Biology and Evolution *8*:297-319 (1991). | **Research article** |
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| 24. | Wayne, R.K., Gilbert, D., Lehman, N., Hansen, K., Eisenhawer, A., Girman, D., Peterson, R.O., Mech, L.D., Gogan, P.J.P., Seal, U.S., and Krumenaker, R.J. Conservation genetics of the endangered Isle Royale gray wolf. Conservation Biology *5*:41-51 (1991). | **Research article** |
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| 25. | Lehman, N. and Wayne, R.K. Analysis of coyote mitochondrial DNA genotype frequencies: estimation of the effective number of alleles. Genetics *128*:405-416 (1991).  | **Research article** |
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| 26. | Wayne, R.K. and Jenks, S.M. Mitochondrial DNA analysis implying extensive hybridization of the endangered red wolf *Canis rufus*. Nature *351*:565-568 (1991). | **Research article** |
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| 27. | George, S.B. and Wayne, R.K. Island foxes: a model for conservation genetics. Terra *30*:18-23 (1991).  | **Popular article** |
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| 28. | Wayne, R.K., George, S., Gilbert, D., Collins, P., Kovach, S., Girman, D., and Lehman, N. A morphologic and genetic study of the island fox, *Urocyon littoralis*. Evolution *45*:1849-1868 (1991).  | **Research article** |
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| 29. | Lehman, N., Clarkson, P., Mech, L.D., Meier, T.J., and Wayne, R.K. A study of the genetic relationships within and among wolf packs using DNA fingerprinting and mitochondrial DNA. Behavioral Ecology and Sociobiology *30*:83-94 (1992).  | **Research article** |
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| 30. | Geffen, E., Mercure, A., Girman, D.J., Macdonald, D.W., and Wayne, R.K. Phylogenetic relationships of the fox-like canids: mitochondrial DNA restriction fragment, site and cytochrome b sequence analyses. J. Zoology *228*: 27-39 (1992). | **Research article** |
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| 31. | Wayne, R.K. , Lehman, N. and Jenks, S.M. The use of morphologic and molecular techniques to estimate genetic variability and relationships of small endangered populations. In: Wildlife 2001: Populations. (D.R. McCullough and R.H. Barrett, eds.) Elsevier Science Publ., London. Pp. 217-236 (1992). | **Refereed review** |
|  |   |  |
| 32. | Jenks, S.M. and Wayne, R.K. Problems and policy for species threatened by hybridization: the red wolf as a case study. In: Wildlife 2001: Populations. (D.R. McCullough and R.H. Barrett, eds.) Elsevier Science Publ., London. Pp. 237-251 (1992).  | **Refereed review** |
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| 33. | Wayne, R.K. and Lehman, N.. Mitochondrial DNA analysis of the eastern coyote: origins and hybridization. In: The Ecology and Management of the Eastern Coyote. (A. H. Boer, ed.) University of New Brunswick Press, Frederickton, New Brunswick, Canada. Pp. 9-22 (1992).  | **Refereed review** |
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| 34. | Garcelon, D.K., Wayne, R.K., and Gonzales, B.J. A serologic survey of the Island Fox (*Urocyon littoralis*) on the Channel Islands, California. J. Wildlf. Disease *28*:223-229 (1992).  | **Research article** |
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| 35. | Wayne, R.K., Lehman, N., Allard, M.W., and Honeycutt, R.L. Mitochondrial DNA variability of the gray wolf: genetic consequences of population decline and habitat fragmentation. Conservation Biology *6*:559-569 (1992).  | **Research article** |
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| 36. | Wayne, R.K. On the use of molecular genetic characters to investigate species status. Conservation Biology *6*:590-592 (1992). | **Commentary** |
|  |  |  |
| 37. | Wayne, R.K. and Ruff, C. Domestication and Bone Growth. In: Bone Growth: Mechanical Factors, Skeletal Components and Consequences. (B.K. Hall, ed.) Tedford Press, Caldwell, New Jersey. Pp. 105-131 (1993).  | **Review** |
|  |  |  |
| 38. | Wayne, R.K., George, S.B., Gilbert, D., and Collins, P. The Channel Island fox (*Urocyon littoralis*) as a model of genetic change in small populations. In: The Unity of Evolutionary Biology. Proc. Fourth International Congress of Systematic and Evolutionary Biology. (E.C. Dudley, ed.) Dioscorides Press, Portland, OR. Pp. 639-649 (1993).  | **Book chapter** |
|  |  |  |
| 39. | Wayne, R.K. Phylogenetic relationships and classification of the dog. In: Miller's Anatomy of the Dog. Third Edition. (H.E. Evans, ed.) W.B. Saunders Co. Philadelphia. Pp. 15-21 (1993). | **Review** |
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| 40. | Wayne, R.K. Molecular evolution of the dog family. Trends in Genetics *9*: 218-224 (1993).  | **Refereed review** |
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| 41. | Girman, D.J., Kat, P.W., Mills, G., Ginsberg, J., Fanshaw, J., Fitzgibbon, C., Borner, M., Wilson, V., Laurenson, K., and Wayne, R.K. A genetic and morphological analysis of the African wild dog (*Lycaon pictus*). J. Heredity *84*:450-459 (1993). | **Research article** |
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| 42. | Wayne, R.K., Barratt, E.M., Bruford, M.W., Girman, D., Rebholz, W.E.R., Stanley, H.F., Sunnucks, P., and Taylor, A.C. Molecular genetics of endangered species. In: The Role of Zoos in Global Conservation. (G.Mace, A. Feistner, and P. Olney, eds.) Chapman & Hall, New York. Pp. 92-112 (1994).  | **Refereed review**  |
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| 43. | Lehman, N., Wayne, R.K., and Stewart, B.S. Comparative levels of genetic variability in harbor seals and northern elephant seals as determined by genetic fingerprinting. Symposia of the Zoological Society of London. Oxford University Press, Volume *66*: 49-60 (1993). | **Research article** |
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| 44. | Bruford, M. W. and Wayne, R.K. The use of molecular techniques to address conservation questions. In: Molecular Biological Approaches to Environmental Science (S.J. Garte, ed.) CRC publications, New York. Pp. 11-28 (1993). | **Refereed review** |
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| 45. | Bruford, M.W. and Wayne, R.K. Microsatellites and their application to population genetic studies. Current Biology *3*:939-943 (1993).  | **Refereed review** |
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| 46. | Wayne, R.K. Molecular markers, natural history and evolution. J.C. Avise, Chapman and Hall. Trends in Ecology and Evolution *10*:297 (1994). | **Book review** |
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| 47. | Mercure, A., Ralls, K., Koepfli, K.P., and Wayne, R.K. Genetic subdivisions among small canids: mitochondrial DNA differentiation of swift, kit, and arctic foxes. Evolution *47*:1313-1328 (1993). | **Research article** |
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| 48. | Smith, T.B., Bruford, M.W., and Wayne, R.K.. The preservation of process: the missing element of conservation programs. Biodiversity Letters *1*:32-37 (1994). | **Commentary** |
|  |  |  |
| 49. | Taylor, A.C., Sherwin, W.B., and Wayne, R.K. Genetic variation of simple sequence loci in bottlenecked species: the decline of the northern hairy-nosed wombat (*Lasiorhinus krefftii*). Molecular Ecology *3*:277-290 (1994). | **Research article** |
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| 50. | Gottelli, D., Sillero-Zubiri, C., Applebaum, G. D., Roy, M. S., Girman, D. J., Garcia-Moreno, J., Ostrander, E. A., and Wayne, R. K. Molecular genetics of the most endangered canid: the Ethiopian wolf, *Canis simensis*. Molecular Ecology *3*:301-312 (1994). | **Research article** |
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| 51. | Van Valkenburgh, B. and Wayne, R.K. Shape divergence associated with size convergence in sympatric East African jackals. Ecology *75*:1567-1581 (1994). | **Research article** |
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| 52. | Roy, M.S., Girman, D.J., and Wayne, R.K. The use of museum specimens to reconstruct the genetic variability and relationships of extinct populations. Experimentia *50*:551-557 (1994). | **Refereed review** |
|  |  |  |
| 53. | Roy, M.S., Geffen, E., Smith, D., Ostrander, E., and Wayne, R. K. Patterns of differentiation and hybridization in North American wolf-like canids revealed by analysis of microsatellite loci. Molecular Biology and Evolution *11*:553-570 (1994). | **Research article** |
|  |  |  |
| 54. | Alexander, K.A., Kat, P.W., Wayne, R.K., and Fuller, T.F. Serologic survey of selected canine pathogens among free-ranging jackals in Kenya. J. Wildlife Diseases *30*:486-491 (1994). | **Research article** |
|  |  |  |
| 55. | Maldonado, J.S., Davilla, F.O., Geffen, E., Stewart, B.S., and Wayne, R.K. Intraspecific Genetic differentiation in California sea lions (*Zalophus californianus*) from Southern California and the Gulf of California. Marine Mammal Research *11*:46-58 (1995). | **Research article** |
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| 56. | Wayne, R.K. and Gittleman, J.L. The problematic red wolf. Scientific American *273*:36-39 (1995).  | Review |
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| 57. | Barratt, E.M., Bruford, M.W., Burland, T.M., Jones, G., Racey, P.A., and Wayne, R.K. Characterization of the mitochondrial variability within the microchiropteran genus *Pipistrellus*: approaches and applications. Symp. Zool. Soc. Lond. *67*:377-386 (1995). | **Research article** |
|  |  |  |
| 58. | Wayne, R.K. Conservation genetics of the gray wolf. Carbyn, L.N., S.H. Fritts and D.R. Seip. (Eds.) Canadian Circumpolar Institute Occasional Publication No. 35. Ecology and conservation of wolves in a changing world; Second North American Symposium on Wolves, Edmonton, Alberta, Canada. Canadian Circumpolar Institute: Edmonton, Alberta, Canada. Pp. 399-407 (1995). | **Refereed review** |
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| 59. | Roy, M.S., Geffen, E., Smith, D., and Wayne, R.K. Molecular genetics of pre-1940 red wolves. Conservation Biology, *10*:1413-1424 (1996). | **Research article** |
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| 60. | Wayne, R.K., and Koepfli, K.P. Demographic and historical effects on genetic variation of carnivores. Gittleman, J.L. (Ed.). Carnivore behavior, ecology, and evolution, Vol. 2. Cornell University Press: Ithaca, New York, USA; London, England. Pp. 453-484 (1996). | **Refereed review** |
|  |  |  |
| 61. | Gompper, M.E. and Wayne, R.K. Genetic relatedness among individuals within carnivore societies. Gittleman, J.L. (Ed.) Carnivore behavior, ecology, and evolution, Vol. 2. Cornell University Press: Ithaca, New York, USA; London, England, UK. Pp. 429-452 (1996). | **Refereed review** |
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| 62. | Wayne, R.K. Conservation genetics in the Canidae. Avise, J.C. and J.L. Hamrick (Ed.) Conservation genetics: Case histories from nature. Chapman and Hall, Inc.: New York, New York, USA; London, England. Pp. 75-118 (1996). | **Refereed review** |
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| 63. | Geffen, E., Gompper, M.E., Gittleman, J.L., Luh, H.K., Macdonald, D.W., and Wayne, R.K. Size, life history traits, and social organization in the Canidae: a reevaluation. American Naturalist *147*:140-160 (1996). | **Research article** |
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| 64. | Anderson, C.G., Gittleman, J.L., Koepfli, K.-P., and Wayne, R.K. Sea otter systematics and conservation: which are critical subspecies? (Conservation and Management of the Southern Sea Otter) Endangered Species Update *13*:6-11 (1996). | **Refereed review** |
|  |  |  |
| 65. | Garcia-Moreno, Geffen, J.E., Roy, M.S., and Wayne, R.K. Relationships and genetic purity of the endangered Mexican wolf: an analysis of 10 microsatellite loci. Conservation Biology *10*:376-389 (1996). | **Research article** |
|  |  |  |
| 66. | Yahnke, C.J., Smith, D., Johnson, W., Geffen, E., Fuller, T., Van Valkenburgh, B., Hertel, F., Roy, M.S., and Wayne, R.K. Darwin’s fox rediscovered: a distinct endangered species from a vanishing habitat. Conservation Biology *10*:366-375 (1996). | **Research article** |
|  |  |  |
| 67. | Stanley, H.F., Casey, S., Carnahan, J.M., Goodman, S., Harwood, J., and Wayne, R.K. Worldwide patterns of genetic differentiation in the Harbor seal (*Phoca vitulina*). Molecular Biology and Evolution *13*:368-382 (1966). | **Research article** |
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| 68. | Mace, G.M., Smith, T.B., Bruford, M.W., and Wayne, R.K. Molecular genetic approaches in conservation—an overview of the issues. In: Molecular Genetic approaches in Conservation, (Smith, T.B. and Wayne, R.K. eds.) Oxford University Press, Oxford. Pp. 1-12 (1996). | **Book chapter** |
|  |  |  |
| 69. | Smith, T.B. and Wayne, R.K. editors, Molecular Approaches in Conservation, Oxford University Press, Oxford 483 pages (1996). | **Edited volume** |
|  |  |  |
| 70. | Altman, J., Alberts, S.C., Haines, S.A., Duback, J., Murithi, P., Coote, T., Geffen, E., Cheesman, D.J., Mututua, R.S., Saiyalel, S.N., Wayne, R.K., Lacy, R.C., and Bruford, M.W. Genetic consequences of social structure tested in a wild primate group. Proceedings of the National Academy of Sciences USA *93*:5797-5801 (1996). | **Research article**  |
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| 71. | Girman, D.J., Mills, M.G.L., Geffen, E., and Wayne, R.K. A molecular genetic analysis of social structure, dispersal, and interpack relationships of the African wild dog (*Lycaon pictus*). Behavioral Ecology and Sociobiology 40:187-198 (1997). | **Research article** |
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| 72. | Hedrick, P.W., Miller, P.S., Geffen, E., and Wayne, R.K. Genetic evaluation of the three captive Mexican wolf lineages. Zoo Biology *16*:47-69 (1997). | **Research article** |
|  |  |  |
| 73. | Wayne, R.K. Conservation genetics: Apply anywhere. World Conservation *1*:15-17 (1996). | **Review** |
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