

## **CURRICULUM VITAE**

### **William Joseph Murphy, Ph.D.**

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### **PROFESSIONAL EXPERIENCE / APPOINTMENTS HELD**

- 2013-present: Professor, Dept. of Veterinary Integrative Biosciences, Texas A&M University, College Station, Texas. 77843.
- 2004-2013 Associate Professor (with tenure, 2008). Dept. of Veterinary Integrative Biosciences, Texas A&M University, College Station, Texas. 77843.
- 2004-present: Faculty of Genetics, Texas A&M University
- 2008-present: Faculty of Ecology and Evolutionary Biology, Texas A&M University
- 2008-present: Research Associate, Smithsonian Institution National Museum of Natural History, Washington, D.C. 20560.
- 2003-2004: Senior Scientist, SAIC-Frederick, Inc., Laboratory of Genomic Diversity, National Cancer Institute, Frederick, Maryland 21702
- 1999-2003: Research Fellow, Laboratory of Genomic Diversity, National Cancer Institute, National Institutes of Health, Frederick, Maryland 21702
- 1997-1999: IRTA Post-doctoral fellow, Laboratory of Genomic Diversity, National Cancer Institute, National Institutes of Health, Frederick, Maryland 21702

### **EDUCATION**

Bachelor of Science (Biology major/Chemistry minor), Illinois State University (1992)  
Doctor of Philosophy (Biological Sciences), The University of Tulsa (1997)

### **ACADEMIC/PROFESSIONAL ADVISORS**

Dr. Glen E. Collier, Ph.D. advisor  
Dr. Stephen J. O'Brien, postdoctoral advisor

## AWARDS & HONORS

2013	American Veterinary Medical Foundation/Winn Feline Foundation Excellence in Research Award
2010	Texas A&M University Association of Former Students Distinguished Achievement Award in Research
2009	JoAnn Treat Research Excellence Award, Texas A&M Research Foundation
2007	Pfizer Animal Health Award for Research Excellence
2001-2002	National Institutes of Health LRP Award
1997-1999	National Institutes of Health IRTA Postdoctoral Fellow Award
1996	Stoye Award for Best Student Presentation, Annual meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, Louisiana.

## PROFESSIONAL SOCIETY MEMBERSHIP

2008-present	American Genetics Association
2008-present	Snow Leopard Network
2002-present	Society for Study of Mammalian Evolution
2008-present	Genome10K Community of Scientists

## EDITORIAL SERVICE

- Invited Associate Editor, *PLoS Genetics*, 2012, 2014.
- Associate Editor, *Journal of Heredity*, 2008-present
- Editorial Board, *PLoS ONE*, 2008-present
- Editor, *Phylogenomics: Methods in Molecular Biology*, Humana Press, April 2008
- Associate Editor, *Journal of Mammalian Evolution*, 2007-present
- Editorial Board, *Journal of Mammalian Evolution*, 2002-2007.
- Invited Associate Editor, *PLoS Computational Biology*, 2007
- Special Volume Associate Editor, Proceedings for the 5th International Conference on Advances in Canine and Feline Genomics, *Journal of Heredity*, 2010.
- Special Volume Associate Editor, Proceedings for the 4th International Conference on Advances in Canine and Feline Genomics, *Journal of Heredity*, 2009
- Special Volume Associate Editor, Proceedings for the 2<sup>nd</sup> International Conference on Advances in Canine and Feline Genomics, *Journal of Heredity*, Volume 96 (7), 2005
- Special Volume Associate Editor, Proceedings for the 1st International Conference on Advances in Canine and Feline Genomics, *Journal of Heredity*, Volume 94, Jan/Feb 2003

## RESEARCH

**RESEARCH INTERESTS:** Mammalian comparative genomics, phylogeny, and molecular evolution, with a specific emphasis on feline evolutionary genomics, including: gene mapping, sex chromosome genetics, speciation and mechanisms of male hybrid sterility.

## BIBLIOGRAPHY

### Refereed papers

**h-index:** 44, **i10-index:** 71

\*Underlined and italicized names indicate trainees/students/postdocs.

IF=Journal Impact Factor

Number of citations based on Google Scholar (accessed September 25, 2014)

1. Montague, M.\*<sup>1</sup>, Li, G.\*<sub>2</sub>, Gandolfi, B., Khan, R., Aken, B.L., Searle, S.M.J., Minx, P., Hillier, L., Kolboldt, D.C., Davis, B.W., Driscoll, C.A., Barr, C., Blackistone, K., Quilez, J., Lorente-Galdos, B., Marques-Bonet, T., Alkan, C., Thomas G.W.C., Hahn, M.W., Menotti-Raymond, M., O'Brien, S.J., Wilson, R.K., Lyons, L.A., # **Murphy, W.J.**,# and W. C. Warren#. 2014. Comparative analysis of the domestic cat genome reveals genetic signatures underlying feline biology and domestication. *Proceedings of the National Academy of Sciences USA*. *In press*. \*These authors contributed equally, #co-corresponding author
2. Alfoldi, J., Soh, Y.W.S., Pyntikova, T., Brown, L.G., Graves, T., Minx, P.J., Fulton, R.S., Kremitzki, C., Koutseva, N., Mueller, J.L., Rozen, S., Hughes, J.F., Owens, E., Womack, J.E., **Murphy, W.J.**, Cao Q., de Jong, P., Warren, W.C., Wilson, R.K., Skaletsky, H., and D.C. Page. 2014. Sequencing the mouse Y chromosome reveals convergent gene acquisition and amplification on both sex chromosomes. *Cell*. *In press*.
3. Gershony, L.C., Cortes, A., Penedo, M.C.T., Davis, B.W., **Murphy, W.J.**, Helps, C.R., and L.A. Lyons. 2014. Who's behind that mask and cape? The Asian Leopard Cat's Agouti (*ASIP*) allele affects coat colour phenotype in the Bengal cat breed. *Animal Genetics*. Aug 20. doi: 10.1111/age.12206. [Epub ahead of print]
4. Hayden, S., Davalos, L.M., Bekaert, M., Goodbla, A., **Murphy, W.J.**, and E.C. Teeling. 2014. A cluster of olfactory receptor genes linked to frugivory in bats. *Molecular Biology and Evolution*. 31, 917-927.  
IF: 10.35; Citations: 0
5. Janečka, J.E., Jackson, R., Munkhtsog, B., and **W. J. Murphy**. 2013. Characterization of 9 microsatellites and primers in snow leopards, and a species-specific PCR assay for identifying non-invasive samples. *Conservation Genetics Resources* 1-5.  
IF: XXX; Citations: 0
6. Springer M.S., Meredith, R.W., Teeling, E.C., and **W. J. Murphy**. 2013. Technical comment on "The placental mammal ancestor and the post-KPg radiation of placental mammals". *Science* 341: 613.  
IF: 31.20; Citations: 6
7. Li, G., Davis, B.W., Raudsepp, T., Pearks Wilkerson, A.J., Mason, V.C., Ferguson-Smith, M.A., O'Brien, P., Waters, P., and **W. J. Murphy**. 2013. Comparative analysis of

mammalian Y chromosomes illuminates ancestral structure and lineage-specific evolution. *Genome Research* 23: 1486-1495.

[IF: 14.40; Citations: 7](#)

8. Hughes, G., Li, G., **Murphy, W. J.**, Higgins, D., and E.C. Teeling. 2013. Using Illumina next generation sequencing technologies to sequence multigene families in *de novo* species. *Molecular Ecology Resources* 13: 510-521.  
[IF: 7.43; Citations: 4](#)
9. Janečka, J. E., Chowdhary, B., and **W. Murphy**. 2012. Exploring the correlations between sequence evolution rate and phenotypic divergence across the mammalian tree provides insight into adaptive evolution. *Journal of Biosciences* 37: 897-909.  
[IF: 1.76; Citations: 4](#)
10. **Murphy, W. J.**, Janečka, J.E., Stadler, T., Eizirik, E., Ryder, O.A., Gatesy, J., Meredith, R.W., and M.S. Springer. 2012. Response to comment on "Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on mammal diversification." *Science* 337: 34.  
[IF: 31.20; Citations: 1](#)
11. Springer, M. S., Meredith, R. W., Gatesy, J., Emerling, C.A., Park, J., Rabosky, D.L., Stadler, T., Steiner, C., Ryder, O.A., Janečka, J.E., Fisher, C.A. and **W. J. Murphy**. 2012. Macroevolutionary dynamics and historical biogeography of primate diversification inferred from a species supermatrix. *PLoS ONE* 7: e49521.  
[IF: 3.73; Citations: 54](#)
12. Meredith, R. W.\*, Janečka, J.E.\*, Gatesy, J., Ryder, O. A., Fisher, C.A., Teeling, E.C., Goodbla, A., Eizirik, E., Simão, T. L. L., Stadler, T., Rabosky, D. L., Honeycutt, R. L., Flynn, J. J., Ingram, C. M., Steiner, C., Williams, T. L., Robinson, T. J., Burk-Herrick, A., Westerman, M., Ayoub, N. A., Springer, M. S., and **W. J. Murphy**. 2011. Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on mammal diversification. *Science* 334: 521-525. \*These authors contributed equally  
[IF: 31.20; Citations: 308](#)
13. Springer, M. S., Meredith, R., Janečka, J.E., and **W. J. Murphy**. 2011. The Historical Biogeography of Mammalia. *Philosophical Transactions of the Royal Society, B: Biological Sciences* 366: 2478-2502.  
[IF: 6.23; Citations: 27](#)
14. Mason, V.C., Li, G., Helgen, K. M., and **W. J. Murphy**. 2011. Efficient cross-species capture hybridization and next-generation DNA sequencing of mitochondrial genomes from non-invasively sampled museum specimens. *Genome Research* 21: 1695-1704.  
[IF: 14.40; Citations: 29](#)
15. Janečka, J.E., Jackson, R.M., Munkhtsog, B., Mallon, D.P., Naranbaatar, G., and **W. J. Murphy**. 2011. Comparison of noninvasive genetic and camera-trapping techniques for surveying snow leopards. *Journal of Mammalogy* 92: 771-783.  
[IF: 2.31; Citations: 15](#)
16. Janečka, J. E., Tewes, M.E., Laack, L.L., Caso, A., Grassman, L.I., Haines, A.M., Shindle, D.B., Davis, B.W., **Murphy, W. J.**, and R.L. Honeycutt. 2011. Reduced genetic diversity and isolation of remnant ocelot populations occupying a severely fragmented landscape in southern Texas. *Animal Conservation* 14: 608-619.  
[IF: 2.91; Citations: 8](#)
17. Paria, N., Raudsepp, T., Pearks Wilkerson, A.J., O'Brien, P.C., Ferguson-Smith, M.A., Love, C.C., Arnold, C., Rakestraw, P., **Murphy, W. J.**, Chowdhary, B.P. 2011. A gene

catalogue of the euchromatic male-specific region of the horse Y chromosome: comparison with human and other mammals. *PLoS ONE* 6: e21374.

[IF: 3.73; Citations: 16](#)

18. *Li, G., Janečka, J.E., and W. J. Murphy.* 2011. Accelerated evolution of *CES7*, a gene encoding a novel major urinary protein in the cat family. *Molecular Biology and Evolution* 28: 911-920.  
[IF: 10.35; Citations: 6](#)
19. Brinkmeyer-Langford, C., **Murphy, W. J.**, Childers, C., and L.C. Skow. 2010. A conserved segmental duplication within ELA. *Animal Genetics* 41 Suppl. 2: 186-95.  
[IF: 2.58; Citations: 4](#)
20. Eizirik, E., **Murphy, W. J.**, Koepfli, K.-P., Johnson, W.E., Dragoo, J., Wayne, R.K., and S.J. O'Brien. 2010. Pattern and timing of diversification of the mammalian order Carnivora inferred from multiple nuclear gene sequences. *Molecular Phylogenetics and Evolution* 56: 49-63.  
[IF: 4.07; Citations: 63](#)
21. *Davis, B.W., Li, G., and W. J. Murphy.* 2010. Reconciling the evolutionary radiation of the big cats (*Panthera*) using a Y chromosome supermatrix and a critical reanalysis of mitochondrial DNA. *Molecular Phylogenetics and Evolution* 56: 64-76.  
[IF: 4.07; Citations: 30](#)
22. Hayden, S., Bekaert, M., *Crider, T.*, Mariani, S., **Murphy, W. J.**, and E.C. Teeling. 2010. Ecological adaptation determines functional mammalian olfactory subgenomes. *Genome Research* 20: 1-9.  
[IF: 14.40; Citations: 58](#)
23. D. Haussler, S. J. O'Brien, O.A. Ryder, F. K. Barker, M. Clamp, A. J. Crawford, R. Hanner, O. Hanotte, W. E. Johnson, J. A. McGuire, W. Miller, **W. J. Murphy**, F. H. Sheldon, B. Sinervo, B. Venkatesh, E. O. Wiley, F. W. Allendorf, C. S. Baker, A. Bauer, A. Beja-Pereira, E. Bermingham, G. Bernardi, C. R. Bonvicino, S. Brenner, T. Burke, J. Cracraft, M. Diekhans, S. Edwards, P. Ericson, J. Estes, J. Fjelsa, N. Flesness, T. Gamble, P. Gaubert, A. S. Graphodatsky, J. A. Marshall Graves, E. D. Green, R. E. Green, S. Hackett, P. Hebert, K. M. Helgen, L. Joseph, B. Kessing, D. M. Kingsley, H. A. Lewin, G. Luikart, P. Martelli, M. A.M. Moreira, N. Nguyen, G. Ortí, B. L. Pike, D. M. Rawson, S. C. Schuster, H. N. Seuánez, H. B. Shaffer, M. S. Springer, J. M. Stuart, J. Sumner, E. C. Teeling, R. C. Vrijenhoek, R. D. Ward, W. C. Warren, R. K. Wayne, T. M. Williams, N. D. Wolfe, Y.-P. Zhang. 2009. Genome 10K: A proposal to obtain whole genome sequence for 10,000 vertebrate species. *Journal of Heredity* 100: 659-674. **[Cover article]**  
[IF: 2.05; Citations: 105](#)
24. Meredith, R. W., Gatesy, J., **Murphy, W. J.**, Ryder, O. A., and M. S. Springer. 2009. Molecular decay of the tooth gene enamel (*ENAM*) mirrors the loss of enamel in the fossil record of placental mammals. *PLoS Genetics* 5: e1000634.  
[IF: 8.52; Citations: 40](#)
25. Miller, W., Drautz, D. I., *Janečka, J. E.*, Lesk, A.M., Ratan, A., Tomsho, L.P., Packard, M., Zhang, Y., McClellan, L., Qi, J., Zhao, F., Gilbert, M.T.P., Dalén, L., Arsuaga, J.L., Ericson, P.G.P., Huson, D. H., Helgen, K. M., **Murphy, W.J.**, Götherström, A., and S.C. Schuster. 2009. The mitochondrial genome sequence of the Tasmanian tiger (*Thylacinus cynocephalus*). *Genome Research* 19: 213-220. **[Cover article]**  
[IF: 14.40; Citations: 63](#)

26. Davis, B. W., Raudsepp, T., Pearks Wilkerson, A. J., Agarwala, R., Schäffer, A. A., Houck, M., Chowdhary, B. P., and **W. J. Murphy**. 2009. A high-resolution cat radiation hybrid and integrated FISH mapping resource for phylogenomic studies across Felidae. *Genomics* 93: 299-304. **[Cover article]**  
IF: 3.01; Citations: 28
27. Collier, G.E., **Murphy, W.J.**, and M. Espinoza. 2009. Phylogeography of the genus *Epiplatys* (Aplocheiloidea: Cyprinodontiformes). *Molecular Phylogenetics Evolution*. 50: 190-6.  
IF: 4.07; Citations: 6
28. Janečka, J. E., Helgen, K. M., Lim, N., Baba, M., Izawa, M., Boeadi, and **W. J. Murphy**. 2008. Evidence for multiple species of Sunda colugo. *Current Biology* 18: pR1001-1003.  
IF: 9.49; Citations: 7
29. Janečka, J. E., Jackson, R., Li, D.-Q., Zhang, Y.-Q., F., Munkhtsog, B., Buckley-Beason, V., and **W. J. Murphy**. 2008. Population monitoring of snow leopards using noninvasive collection of scat samples: a pilot study. *Animal Conservation* 11: 401-411. **[Cover article]**  
IF: 2.69; Citations: 44
30. Pearks Wilkerson, A. J., Raudsepp, T., Graves, T., Warren, W., Chowdhary, B. P., Skow, L. C., and **W. J. Murphy**. 2008. Gene discovery and comparative analysis of X-degenerate genes from the domestic cat Y chromosome. *Genomics* 92: 329-338.  
IF: 3.01; Citations: 29
31. Springer, M. S., Meredith, R.W., Eizirik, E., Teeling, E., and **W. J. Murphy**. 2008. Morphology and placental mammal phylogeny. *Systematic Biology* 57: 499-503.  
IF: 12.17; Citations: 9
32. Graphodatsky, A. S., Yang, F., Dobigny, G., Biltueva, L., Romanenko, S., Perelman, P., Serdukova, N., Alkalaeva, E., Ferguson-Smith, M. A., **Murphy, W. J.**, and T. J. Robinson. 2008. Tracking genome evolution in rodents by Zoo-FISH. *Chromosome Research* 16: 261-274.  
IF: 2.85; Citations: 24
33. Holmes, R. S., Chan, J., Cox, L.A., **Murphy, W. J.**, and J. VandeBerg. 2008. Opossum carboxylesterases: sequences, phylogeny and evidence for CES gene duplication events predating the marsupial-eutherian common ancestor. *BMC Evolutionary Biology* 8:54.  
IF: 3.29; Citations: 16
34. Miller, W., Rosenbloom, K., Hardison, R. C., Hou, M., Taylor, J., Raney, B., Burhans, R., King, D. C., Baertsch, R., Blankenberg, D., Kosakovsky Pond, S. L., Nekrutenko, A., Giardine, B., Tyekucheva, S., Diekhans, M., Pringle, T. H., **Murphy, W. J.**, Lesk, A., Weinstock, G. M., Lindblad-Toh, K., Gibbs, R. A., Lander, E. S., Siepel, A., Haussler, D., and W. J. Kent. 2007. 28-way vertebrate alignment and conservation track in the UCSC Genome Browser. *Genome Research* 17: 1797-1808.  
IF: 14.40; Citations: 166
35. Pontius, J. U., Mullikin, J.C., Smith, D., Lindblad-Toh, K., Gnerre, S., Clamp, M., Stephens, R., Neelam, B., Volfovsky, N., Schäffer, A.A., Agarwala, R., Narfstrom, K., **Murphy, W. J.**, Giger, U., Roca, A.L., O'hUigin, C., Antunes, A., Menotti-Raymond, M., Yuhki N., Pecon Slattery J., Johnson, W.E., Bourque, G, Tesler, G. and S. J. O'Brien. 2007. Initial sequence and comparative analysis of the cat genome. *Genome Research* 17: 1675-1689.

- IF: 14.40; Citations: 175
36. Janečka, J. E., Miller, W., Pringle, T. H., Wiens, F., Zitzmann, A., Helgen, K. M., Springer, M. S., and **W. J. Murphy**. 2007. Molecular and genomic data identify the closest living relative of primates. *Science* 318: 792-794.  
IF: 31.20; Citations: 178
37. Springer, M. S., Burk, A., Meredith, R., Eizirik, E., Teeling, E. C., O'Brien, S. J., and **W. J. Murphy**. 2007. The adequacy of morphology for reconstructing the early phylogenetic history of placental mammals. *Systematic Biology* 56: 673-684.  
IF: 12.17; Citations: 59
38. Springer, M. S., and **W. J. Murphy**. 2007. Mammalian evolution and biomedicine: new views from phylogeny. *Biological Reviews* 82: 375-392.  
IF: 10.26; Citations: 62
39. Vasquez-Salat, N., Beck, T. W., Yuhki, N., O'Brien, S. J., and **W. J. Murphy**. 2007. Gene conversion within the mammalian CC chemokine receptor cluster promotes receptor dimerization. *Genomics* 90: 213-224.  
IF: 3.01; Citations: 14
40. Miller-Butterworth, C. M., **Murphy, W. J.**, O'Brien, S. J., Jacobs, D. S., Springer, M. S., and E. C. Teeling. 2007. A family matter: conclusive resolution of the taxonomic position of the long-fingered bats, *Miniopterus*. *Molecular Biology and Evolution* 24: 1553-1561.  
IF: 10.35; Citations: 91
41. **Murphy, W. J.**, Pringle, T., Crider, T., Springer, M. S., and W. Miller. 2007. Using genomic data to unravel the root of the placental mammal phylogeny. *Genome Research* 17: 413-421.  
IF: 14.40; Citations: 298
42. **Murphy, W. J.**, Davis, B., David, V. A., Agarwala, R., Schäffer, A. A., Pearks-Wilkerson, A. J., Neelam, B., O'Brien, S. J. and M. Menotti-Raymond. 2007. A 1.5-megabase-resolution radiation hybrid map of the cat genome and comparative analysis with the canine and human genomes. *Genomics* 89: 189-196. **[Cover article]**  
IF: 3.01; Citations: 54
43. **Murphy, W. J.**, and S. J. O'Brien. 2007. Designing and optimizing comparative anchor primers for comparative gene mapping and phylogenetic inference in mammals. *Nature Protocols* 2: 3022-3030.  
IF: 8.36; Citations: 11
44. Kohn, M. H., **Murphy, W. J.**, Ostrander, E. A., and R. K. Wayne. 2006. Genomics and conservation genetics. *Trends in Ecology and Evolution* 21: 629-637.  
IF: 15.39; Citations: 129
45. Fyfe, J. C., M. Menotti-Raymond David, V., Schäffer, A. A., Brichta, L., Drummond, M. C., Buzzell, B. G., Gregory, B. L., Agarwala, R., **Murphy, W. J.**, Wirth, B., and S. J. O'Brien. 2006. An approximately 140-kb deletion associated with feline spinal muscular atrophy implies an essential LIX1 function for motor neuron survival. *Genome Research* 16: 1084-1090. **[Cover article]**  
IF: 14.40; Citations: 38
46. **Murphy, W. J.**, Pearks Wilkerson, A. J., Raudsepp, T., Agarwala, R., Schäffer, A. A., Stanyon, R., and B. P. Chowdhary. 2006. Novel gene acquisition on carnivore Y chromosomes. *PLoS Genetics* 2: e43.

- IF: 8.52; Citations: 46
47. Johnson, W. E., Eizirik, E., Pecon-Slattery, J., **Murphy, W. J.**, Antunes, A., Teeling, E. C., and S. J. O'Brien. 2006. The late Miocene radiation of modern Felidae: a genetic assessment. *Science* 311: 73-77.  
IF: 31.20; Citations: 351
48. **Murphy, W. J.**, Stephens, R., Agarwala, R., Schaafer, A., Smith, C. J., Crumpler, N., David, V. A. and S. J. O'Brien. 2005. A rhesus macaque radiation hybrid map and comparative analysis with the human genome. *Genomics*. 86: 383-395.  
IF: 3.01; Citations: 26
49. **Murphy, W. J.\***, Larkin, D.\*, Everts van-der Wind, A.\*, Bourque, G., Tesler, G., Auvil, L., Beever, J. E., Chowdhary, B. P., Galibert, F., Gatzke, L., Hitte, C., Meyers, S. N., Ostrander, E. A., Pape, G., Parker, H. G., Raudsepp, T., Rogatcheva, M. B., Schook, L. B., Skow, L. C., Welge, M., Womack, J. E., O'Brien, S. J., Pevzner, P. A., H. A. Lewin. 2005. Dynamics of mammalian chromosome evolution inferred from multispecies comparative maps. *Science* 309: 613-617. \*These authors contributed equally  
IF: 31.20; Citations: 416
50. Roca, A. L., Nash, W. G., Menninger, J., **Murphy, W. J.**, and S. J. O'Brien. 2005. Insertional polymorphisms of endogenous feline leukemia viruses. *Journal of Virology*. 79: 3979-3986.  
IF: 5.08; Citations: 16
51. He, Q., Lowrie, C., Shelton, G. D., Menotti-Raymond, M., **Murphy, W. J.**, Swanson, W. F. and J. C. Fyfe. 2005. Inherited motor neuron disease in domestic cats: A model of spinal muscular atrophy. *Pediatric Research* 57: 324-330.  
IF: 2.67; Citations: 21
52. Teeling, E. C., Springer, M. S., Madsen, O., Bates, P., O'Brien, S. J., and **W. J. Murphy**. 2005. A molecular phylogeny for bats illuminates biogeography and the fossil record. *Science* 307: 580-584.  
IF: 31.20; Citations: 496
53. Beck, T. W., Menninger, J. **Murphy, W. J.**, Nash, W. G., O'Brien, S. J. and N. Yuhki. 2005. The feline major histocompatibility complex is rearranged by an inversion with a breakpoint in the distal class I region. *Immunogenetics* 56: 702-709.  
IF: 2.89; Citations: 25
54. Pecon-Slattery, J., Pearks Wilkerson, A. J., **Murphy, W. J.**, and S. J. O'Brien. 2004. Phylogenetic assessment of introns and SINEs within the Y chromosome using the cat family Felidae as a species tree. *Molecular Biology and Evolution* 21: 2299-2309.  
IF: 10.35; Citations: 53
55. **Murphy, W. J.**, Pevzner, P. and S. J. O'Brien. 2004. Mammalian phylogenomics comes of age. *Trends in Genetics* 20: 631-639. (Review).  
IF: 9.77; Citations: 248
56. Roca, A. L.\*, Kahila Bar-Gal, G.\*, Eizirik, E., Helgen, K.M., Maria, R., Springer, M.S., O'Brien, S. J., and **W. J. Murphy**. 2004. Mesozoic origin for West Indian insectivores. *Nature* 429: 649-651. \*These authors contributed equally  
IF: 38.60; Citations: 99
57. **Murphy, W. J.**, Bourque, G., Telser, G., Pevzner, P., and S. J. O'Brien. 2003. Reconstructing the genomic architecture of mammalian ancestors using multispecies comparative maps. *Human Genomics* 1: 30-40.



[IF: na; Citations: 32](#)

58. O'Brien, S. J. and **W. J. Murphy**. 2003. Genomics. A dog's breakfast? *Science* 301: 1854-1855. (Review).  
[IF: 31.20; Citations: 28](#)
59. **Murphy, W. J.**, Fröenicke, L., O'Brien, S. J., and R. Stanyon. 2003. The origin of human chromosome 1 and its homologues in placental mammals. *Genome Research* 13: 1880-1888.  
[IF: 14.40; Citations: 66](#)
60. Teeling, E. C., Madsen, O., **Murphy, W. J.**, Springer, M. S., and S. J. O'Brien. 2003. Nuclear gene sequences confirm an ancient link between New Zealand's short-tailed bat and South American noctilionoid bats. *Molecular Phylogenetics and Evolution* 28: 308-319.  
[IF: 4.07; Citations: 49](#)
61. Springer, M. S., **Murphy, W. J.**, Eizirik, E., and S. J. O'Brien. 2003. Placental mammal diversification and the Cretaceous-Tertiary boundary. *Proceedings of the National Academy of Sciences USA* 100: 1056-1061.  
[IF: 9.74; Citations: 682](#)
62. Menotti-Raymond, M., David, V. A., Stephens, R., Agarwala, R., Schaffer, A., O'Brien, S. J., and **W. J. Murphy**. 2003. Radiation hybrid mapping of 304 novel microsatellites in the domestic cat genome. *Cytogenetics and Genome Research* 102: 272-276.  
[IF: 1.84; Citations: 59](#)
63. Kuznetsov, S. B., Matveeva, M. M., **Murphy, W. J.**, O'Brien S. J. and O. L. Serov. 2003. Mapping of 53 loci in American mink (*Mustela vison*). *Journal of Heredity* 94: 386-391.  
[IF: 2.00; Citations: 10](#)
64. Menotti-Raymond, M., David, V. A., Roelke-Parker, M., Sun, S., Schäffer, A., Agarwala, R., Tomlin, J.F., O'Brien, S. J. and **W. J. Murphy**. 2003. Second generation integrated linkage and radiation hybrid maps of the domestic cat. *Journal of Heredity* 94: 95-106.  
[IF: 1.707; Citations: 100](#)
65. O'Brien, S. J., Menotti-Raymond, M., **Murphy, W. J.**, and N. Yuhki. 2002. The feline genome project. *Annual Reviews of Genetics* 36: 657-686.  
[IF: 17.44; Citations: 67](#)
66. **Murphy, W. J.\***, Eizirik, E.\*, O'Brien, S. J., Madsen, O., Scally, M., Douady, C., Teeling, E. C., Ryder, O. A., Stanhope, M., De Jong, W. W. and M. S. Springer. 2001. Resolution of the early placental mammal radiation using Bayesian phylogenetics. *Science* 294: 2348-2351. \*These authors contributed equally  
[IF: 31.20; Citations: 1070](#)
67. O'Brien, S. J., Eizirik, E., and **W. J. Murphy**. 2001. Genomics. On choosing mammalian genomes for sequencing. *Science* 292: 2264-2266.  
[IF: 31.20; Citations: 63](#)
68. Sun, S., **Murphy, W. J.**, Menotti-Raymond, M., and S. J. O'Brien. 2001. Integration of the feline radiation hybrid and linkage maps. *Mammalian Genome* 12: 436-441.  
[IF: 2.42; Citations: 26](#)
69. Parker, J. S. L., **Murphy, W. J.**, Wang, D., O'Brien, S. J., and C. R. Parrish. 2001. Canine and feline parvoviruses can use human or feline transferrin receptors to bind, enter, and infect cells. *Journal of Virology* 75: 3896-3902.  
[IF: 5.08; Citations: 167](#)

70. **Murphy, W. J.**, Stanyon, R., and S. J. O'Brien. 2001. Evolution of mammalian genome organization inferred from comparative gene mapping. *Genome Biology* 2: 0005.1-0005.8. (Review).  
IF: 10.30; Citations: 199
71. **Murphy, W. J.**, Page, J., Smith, C. J., Desrosiers, R. C. and S. J. O'Brien. 2001 A radiation hybrid mapping panel for the rhesus macaque. *Journal of Heredity* 92: 516-519.  
IF: 2.00; Citations: 23
72. Eizirik, E., **Murphy, W. J.**, and S. J. O'Brien. 2001. Molecular dating and biogeography of the early placental mammal radiation. *Journal of Heredity* 92: 212-219.  
IF: 2.00; Citations: 196
73. **Murphy, W. J.\***, Eizirik, E.\*, Johnson, W. J., Zhang, Y. P., Ryder, O. A., and S. J. O'Brien. 2001. Molecular phylogenetics and the origins of placental mammals. *Nature* 409: 614-618. \*These authors contributed equally  
IF: 38.60; Citations: 1147
74. **Murphy, W. J.**, Shan, S., Chen, Z.-Q., Yuhki, N., Hirschmann, D. A., Menotti-Raymond, M., and S. J. O'Brien. 2000. A radiation hybrid map of the cat genome: implications for comparative mapping. *Genome Research* 10: 691-702. **[Cover article]**  
IF: 14.40; Citations: 129
75. Pecon-Slattery, J., **Murphy, W. J.**, and S. J. O'Brien. 2000. Patterns of diversity among SINE elements isolated from three Y-chromosome genes in carnivores. *Molecular Biology and Evolution* 17: 825-829.  
IF: 10.35; Citations: 37
76. **Murphy, W. J.**, Shan, S., Pecon-Slattery, J., Chen, Z. Q., and S. J. O'Brien. 1999. Extensive conservation of sex chromosome organization between cat and human revealed by parallel radiation hybrid mapping. *Genome Research* 9: 1223-1230.  
IF: 14.40; Citations: 95
77. **Murphy, W.J.**, Thomerson, J.E. and G.E. Collier. 1999. Phylogeny of the Neotropical fish family Rivulidae (Cyprinodontiformes, Aplocheiloidei) inferred from mitochondrial DNA sequences. *Molecular Phylogenetics and Evolution* 13: 289-301.  
IF: 4.07; Citations: 57
78. O'Brien, S. J., Menotti-Raymond, M., **Murphy, W. J.**, Nash, W. G., Wienberg, J., Stanyon, R., Copeland, N. G., Jenkins, N. A., Womack, J. E., and J. A. Marshall-Graves. 1999. The promise of comparative genomics in mammals. *Science* 286: 458-481.  
**[Cover article]**  
IF: 31.20; Citations: 513
79. O'Brien, S. J., Eisenberg, J. F., Miyamoto, M., Hedges, S. B., Kumar, S., Wilson, D. E., Menotti-Raymond, M., **Murphy, W. J.**, Nash, W. G., Lyons, L. A., Menninger, J. C., Stanyon, R., Wienberg, J., Copeland, N. G., Jenkins, N. A., Gellin, J., Yerle, M., Andersson, L., Womack, J., Broad, T., Postlewait, J., Serov, O., Bailey, E., James, M. R., Marshall Graves, J. A., et al. 1999. Genome maps 10. Comparative genomics. Mammalian radiations. Wall chart. *Science* 286: 463-478.  
IF: 31.20; Citations: 51
80. **Murphy, W. J.**, Menotti-Raymond, M., Lyons, L. A., Thompson, M. A., and S. J. O'Brien. 1999. Development of a feline whole genome radiation hybrid panel and

comparative mapping of human chromosome 12 and 22 loci. *Genomics*. 57: 1-8.

**[Cover article]**

IF: 3.01; Citations: 76

81. **Murphy, W.J.** and G.E. Collier. 1999. Phylogenetic relationships within the African killifish genera *Aphyosemion* and *Fundulopanchax*. *Molecular Phylogenetics and Evolution* 11: 351-360.  
IF: 4.07; Citations: 30
82. Murphy, W.J., Nguyen, T., Taylor, E.B., and G.E. Collier. 1999. Mitochondrial DNA phylogeny of West African killifishes. *Molecular Phylogenetics and Evolution* 11: 343-350.  
IF: 4.07; Citations: 16
83. Collier, G.E., Espinoza, M., and **W.J. Murphy**. 1998. Forensic phylogenetics of killifish. *Journal of the American Killifish Association*. 31: 35-41.  
IF: 0.00; Citations: 1
84. **Murphy, W.J.** and G.E. Collier. 1997. A molecular phylogeny for aplocheiloid killifishes (Atherinomorpha, Cyprinodontiformes): the role of vicariance and the origins of annualism. *Molecular Biology and Evolution*. 14: 790-799.  
IF: 14.40; Citations: 98
85. **Murphy, W. J.** and G.E. Collier. 1996. Phylogenetic relationships within the aplocheiloid fish genus *Rivulus* (Cyprinodontiformes, Rivulidae): implications for Caribbean and Central American biogeography. *Molecular Biology and Evolution*. 13: 642-649.  
IF: 14.40; Citations: 66

## Volumes Edited

*Phylogenomics: Methods in Molecular Biology*, Humana Press, Totowa, New Jersey (2008)

## Refereed Book Chapters

1. **Murphy, W. J.** and E. Eizirik. 2009. "Placental Mammals (*Eutheria*)". Pp. 471-474 In: *The Timetree of Life*, S.B. Hedges and S. Kumar, eds. Oxford University Press, Oxford.
2. Eizirik, E., and **Murphy, W. J.** 2009. "Carnivores (*Carnivora*)". Pp. 504-507 In: *The Timetree of Life*, S.B. Hedges and S. Kumar, eds. Oxford University Press, Oxford.
3. Page, J.C. and **W.J. Murphy**. 2008. "Construction of radiation hybrid panels". Pp. 51-64 In: *Methods in Molecular Biology, Vol. 422: Phylogenomics*, **W. J. Murphy**, ed. Humana Press, Totowa, New Jersey. Citations: 1
4. Springer, M. S., **Murphy, W. J.**, Eizirik, E., Madsen, O., Scally, M. S., Douady, C., Teeling, E., Stanhope, M. J., de Jong, W. W., and S. J. O'Brien. 2007. "A molecular classification for the living orders of placental mammals and the phylogenetic placement of primates." Pp 1-28 In: *Primate Origins: Adaptations & Evolution*, M. Ravosa and M. Dagosta, eds. Plenum Press, New York. Citations: 15
5. **Murphy, W. J.** 2006. "The feline genome". Pp. 60-68 in *Genome Dynamics: Structure and Evolution of Vertebrate Genomes*. (Volf, J. N., ed.) Karger Press, Basel, Switzerland. Citations: 3
6. Springer, M. S., **Murphy, W. J.**, Eizirik, E., and S. J. O'Brien. 2005. "Evidence for major

placental clades." Pp. 37-49 In *The Rise of Placental Mammals* (K.D. Rose & J.D. Archibald, eds.) The Johns Hopkins University Press, Baltimore, MD. Citations: 76

7. Eizirik, E., **Murphy, W. J.**, Springer, M. S., and S. J. O'Brien. 2004. "Molecular phylogeny and dating of early primate divergences." Pp. 45-64 in *Anthropoid Origins, New Visions* (Eds., R. Kay & C. Ross). Kluwer/Plenum. Citations: 52

## FUNDED RESEARCH

- MT14-009: "Improving the quality of the feline reference genome using PacBio sequencing." Winn Feline Foundation/Miller Trust, December 2014-November 2015. **(PI**, with co-PIs Wes Warren & Leslie Lyons).
- D12FE-019: "Improving the Feline Genome Assembly." Morris Animal Foundation, September 2011-February 2015. **(PI)**
- D12FE-502: "Mapping Feline Disease Phenotypes Using Interspecies Hybrids." Cat Health Network / Morris Animal Foundation, September 2011-February 2015. **(PI**, with co-PI, C. Seabury).
- "Enhanced Hybrid DNA Capture and Next Generation Sequencing Methods for Museum Specimens". Texas A&M Whole Systems Genomics Initiative, Catalyst Grant. September 2011-August 2012. **(PI)**
- Whole Systems Genomics Initiative Graduate Traineeships, Texas A&M University, January 2011-August 2014.
- EF0629849: "Resolving Mammalian Phylogeny Using Genomic and Morphological Approaches", National Science Foundation, October 2006-September 2012. **(PI**, with co-PIs R.L. Honeycutt, T. Williams, and J. Bickham); includes REU Supplements in 2008 & 2010.
- "Empowering Students with Practical Experience Working with Next-Generation Sequencing Data." Texas A&M University. January 2012-April 2012 (**co-PI**, with PI, M. Cristiciello and S. Dindot).
- 01262: "Sequencing and Functional Analysis of the Canine Y Chromosome" American Kennel Club-Canine Health Foundation, January 2010-December 2011. **(PI)**
- "Integrated physical, functional and comparative maps of the cattle, horse and pig Y chromosomes." USDA-NRI, March 2007-February 2011. [**co-PI** with T. Raudsepp, and B. P. Chowdhary (PI)]
- "Characterization of the Canine Y Chromosome: Identifying Genes That Cause Male Infertility." American Kennel Club-Canine Health Foundation, July 2007-December 2009. **(PI**, with co-PIs T. Raudsepp, and B. P. Chowdhary).
- "Status, distribution, and conservation genetics of the snow leopard in Central Asia." National Geographic Foundation, 2008-2009 (**co-PI** with PI J. Janecka)
- "Population Status and Distribution of the Snow Leopard in China", Snow Leopard Conservation Grants Program. March 2009-February 2010. (**co-PI** with PI J. Janecka).
- "Landscape genetics of the snow leopard in Mongolia, Pakistan, and Nepal ", Snow Leopard Conservancy. September 2007-2010. (**co-PI** with PI J. Janecka).
- D06FE-063: "Development of a Detailed Feline Gene Map for Disease Gene Discovery", Morris Animal Foundation, September 2006-February 2009. **(PI)**
- "Targeted Gene Mapping in Gaps of the Cat/Human Comparative Map", Winn Feline

Foundation, April 2005-March 2008. **(PI)**

- "An Integrated (Coding Gene and Microsatellite Marker) Map of the Alpaca". Morris Animal Foundation, Sept. 2002-Aug.2005. **(Co-PI)**, with PI W.E. Johnson)

## TEACHING ACTIVITIES

### COURSES TAUGHT

- 2006-present, *Biomedical Genetics* (BIMS/GENE320; Honors and non-honors sections), College of Veterinary Medicine & Biomedical Sciences, Texas A&M University
- 2012, Special Topics in Mongolian Conservation Genetics and Conservation Medicine (VIBS & WFSC 489/689; co-Instructor).
- 2011, GENE681, Special Topics: "Evolutionary Genetics of Sex"
- 2007, Phylogenetics and population genetics, ANSC629, *Applied Animal Genomics*.
- 2007-2013, Population genomics/phylogenomics, GENE681/685, *Critical Review of Genetics Literature*.
- Instructor, "Introduction to Primer Design", Sixth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 16-27, 2004.
- Instructor, "Bayesian Inference of Phylogeny and Divergence Time Estimation", Sixth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 16-27, 2004.
- Lecturer, "Resolving and Dating the Placental Mammal Radiation". Sixth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 16-27, 2004.
- Instructor, "Advanced Comparative Primer Design", Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 16-27, 2004.
- Lecturer, "Placental Mammal Phylogeny: Resolution and Applications." NSF sponsored Research Experiences for Undergraduates program, The University of Tulsa, Tulsa, OK. July 28, 2003.
- Lecturer, "Post-Baccalaureate Research Opportunities at the NIH." NSF sponsored Research Experiences for Undergraduates program, The University of Tulsa, Tulsa, OK. July 28, 2003.
- Instructor, "Primer Design 101", Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 18-30, 2002.
- Co-Instructor, "Advanced Phylogenetics: Bayesian Inference, Molecular Dating, and Statistical Tests of Tree Topologies", Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 18-30, 2002.
- Lecturer, "Resolving and Dating the Placental Mammal Radiation". Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 18-30, 2002.

- Lecturer, "Comparative Genomics in Mammals", Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 18-30, 2002.
- Instructor, "Advanced Comparative Primer Design", Fifth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 18-30, 2002.
- Lecturer, "The Molecular Clock: Applications in Placental Mammals." NSF sponsored Research Experiences for Undergraduates program, The University of Tulsa, Tulsa, OK. June 27, 2002.
- Lecturer, "The Promise of Comparative Genomics in Mammals." NSF sponsored Research Experiences for Undergraduates program, The University of Tulsa, Tulsa, OK. June 28, 2002.
- Lecturer, "Post-Baccalaureate Research Opportunities at the NIH." NSF sponsored Research Experiences for Undergraduates program, The University of Tulsa, Tulsa, OK. June 28, 2002.
- Lecturer, "Molecular Phylogenetics and the Origins of Placental Mammals". Fourth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 14-26, 2000.
- Instructor, "Primer Design and Introduction to BLAST", Fourth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 14-26, 2000.
- Co-Instructor, "PCR wet-lab and automated analysis using ABI technology", Fourth Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 14-26, 2000.
- Lecturer, "Physical mapping to exploit comparative genome organization". Third Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 17-29, 1998.
- Co-Instructor, "PCR wet-lab and automated analysis using ABI technology", Third Annual Course in Recent Advances in Conservation Genetics, Smithsonian Institute, Center for Research and Conservation, Front Royal, Virginia. August 17-29, 1998.

## ADVISING

### **Postdoctoral trainees**

- Li Gang, Ph.D. 2008-2013. *Current position: Associate Research Scientist, Dept. of Veterinary Integrative Biosciences, Texas A&M University.*
- Jan E. Janečka, Ph.D. 2006-2010, *Current position: Assistant Professor, Duquesne University, Pittsburgh, PA.*
- Emma C. Teeling, Ph.D. 2002-2004, *Current position: Associate Professor, University College, Dublin.*

### **Graduate Student Committee Membership**

- Thesis Committee Member: Adrian Castellanos, Ph.D. student (WFSC). 2014-present.
- Thesis Committee Member: Caitlin Curry, Ph.D. student (GENE), 2014-present.
- **Thesis Supervisor:** Wesley Brashear, Ph.D. student (GENE), 2013-present.
- Thesis Committee Member: Milan Green, non-thesis M.S. student (ANSC). 2013-present.
- Thesis Committee Member: Jimmy, Ph.D. student (PHYS). 2012-present.
- Thesis Committee Member: Kevin Dietz, Ph.D. student (ENTO). 2012-present.
- Thesis Committee Member: Yvette Halley, Ph.D. student (GENE). 2012-present.
- Thesis Committee Member: Mattie Squire, M.S. student (BIOL). 2012-present.
- Thesis Committee Member: Ralph Crosby, Ph.D. student (CSCE). 2011-present.
- Thesis Committee Member: Howard Michael Huynh, Ph.D. student (Biology), Texas Tech University. 2010-present.
- Thesis Committee Member: Felipe Avila, Ph.D. student (BIMS). 2010-2014.
- **Thesis Supervisor:** Victor Mason, Ph.D. student (GENE). 2010-present.
- Thesis Committee Member: Grant Brammer, Ph.D. candidate (CSCE). 2008-2014.
- **Thesis Supervisor:** Brian Davis, Ph.D. (GENE), 2009-2013. *Current position: IRTA post-doctoral fellow, Dr. Elaine Ostrander's lab, NHGRI, NIH, Bethesda, MD.*
- Thesis Committee Member: Ryan Doan, Ph.D. student (GENE). 2010-2013.
- Thesis Committee Member: John Andersen, M.S. student (WFSC). 2011-2012.
- Thesis Committee Member: Sarah Welborn, M.S. student (WFSC). 2010-2012.
- Thesis Committee Member: Mu-Fen Hsieh, Ph.D. student (CSCE). 2008-present.
- **Thesis Supervisor:** Brian Davis, M.S. (BIMS), 2007-2009.
- Thesis Committee Member: James Huang, M.S. (CSCE). 2007-2009.
- Thesis Committee Member: Nandina Paria, Ph.D. (BIMS). 2006-2009.
- Thesis Committee Member: Valerie Reiss, M.S. (BIMS). 2006-2007.
- Thesis Committee Member: Kathrin Burke, Ph.D candidate (VSCS). 2005-2007.
- Thesis Committee Member: Jan Janečka, Ph.D., Texas A&M University-Kingsville. 2005-2006.
- Thesis Committee Member: Candice Brinkmeyer, Ph.D. (GENE). 2004-2006.
- Thesis Committee Member: Wendee Holtcamp, Ph.D. candidate, Rice University. 2004-2005.
- **Thesis Supervisor:** Nuria Vasquez-Salat, M.S., 2003-2004, Hood College, Frederick, MD
- **Thesis co-Supervisor:** Shan Sun, M.S., George Mason University, Fairfax, VA, 1999.

### **Other Graduate Committee Service**

- External examiner, Ph.D. thesis of Veronica Murtagh, Australian National University, Australia (2011).
- External examiner, Ph.D. thesis of Tara Fulton, University of Alberta, Canada (2008).
- External examiner, Ph.D. thesis of Clemente Gilbert, Stellenbosch University, South Africa (2008).

### **Technical Staff, Undergraduates, High School Interns**

- Elizabeth Castleberry, undergraduate researcher, Texas A&M University, 2014.
- Jacob Hammond, undergraduate researcher, Texas A&M University, 2012-2013. *Currently enrolled in medical school at Texas A&M University.*
- Varun Naik, non-thesis M.S., graduate researcher, Texas A&M University, 2011-2012. *Employed by Pfizer Inc.*
- Adriana Martinez, undergraduate researcher, Texas A&M University, 2012-2013.
- Jessie DiCarlo, undergraduate researcher, Texas A&M University, 2011-2012. *Currently enrolled in medical school at U.T. Houston.*
- Max Brown, undergraduate researcher, Texas A&M University, 2011-2012. *Currently enrolled in graduate school at L.S.U.*
- Derek Siedel, undergraduate researcher, Texas A&M University, 2010-2011. *Currently enrolled in Genetics Ph.D. program at Texas A&M University.*
- Breanne Harty, undergraduate researcher, Texas A&M University, 2010-2011. *Currently enrolled in Genetics graduate program, Washington University at St. Louis.*
- Amanda Padilla, undergraduate researcher, Texas A&M University, 2010-2011. *Currently enrolled in medical school at U.T. Galveston.*
- Elizabeth Kennedy, undergraduate researcher, Texas A&M University, 2010. *Currently enrolled in medical school at Louisiana State University School of Medicine.*
- Roxana Bridges, undergraduate researcher, Texas A&M University, 2009-2010.
- Victor Mason, undergraduate research scholar, Texas A&M University, 2009-2010. *Currently enrolled in Genetics Ph.D. program at Texas A&M University.*
- Angela Love, undergraduate researcher, Texas A&M University, 2009-2010.
- Dustin Dwiggin, undergraduate researcher, Texas A&M University, 2008-2010. *Currently enrolled in medical school at U.T. Galveston.*
- Colleen Fisher, undergraduate researcher, Texas A&M University, 2007-2010. *Currently employed at MD Anderson, Houston TX.*
- Alison J. Pearks-Wilkerson, M.S., Research Associate, Texas A&M University, 2005-2008.
- David R. Dies, B.S., undergraduate researcher, Texas A&M University, 2007-2008. *Attended medical school at U.T. Galveston.*
- Anisha Jambhekar, B.S., undergraduate researcher, Texas A&M University, 2006-2007. *Attended veterinary school at Texas A&M University.*
- Tess Crider, B.S., undergraduate researcher, Texas A&M University, 2006-2007; Summer 2008. *Attended veterinary school at Texas A&M University.*
- Brian Davis, B.S., undergraduate researcher, Texas A&M University, 2005-2007. *Currently an NIH post-doctoral fellow at the National Human Genome Research Institute (w/Dr. Elaine Ostrander).*
- Scott Corriveau, B.S., undergraduate researcher, Texas A&M University, 2004-2005.
- Nicole J. Crumpler, B.S., SAIC Research Technician 2002-2004.
- Evir Goldman, B.S. SAIC summer intern, 2004.
- Meghan Kessler, NIH SIP Fellow, 2003-2004.
- Jennifer Tabler, NIH SIP/Summer CRTA Fellow, 2001-2004.
- Jessica Winkles, NIH SIP Fellow, 2002.



- Jilliana Minchoff, NIH SIP Fellow, 2002-2003.
- Clarence Smith, Jr. B.S., NIH CRTA Postbaccalaureate Fellow 2001-2002.
- Jason Morris, NIH SIP/Summer CRTA Fellow, 2001-2002.
- Deborah Hirschmann, B.S., NIH CRTA Postbaccalaureate Fellow 1999-2001.

## PROFESSIONAL SERVICE

### CONFERENCE ORGANIZING COMMITTEES

- Chairperson, Cat and Dog Genomics Workshop, Plant and Animal Genome Conference, San Diego, CA, (January 2015).
- Co-chair, Cat and Dog Genomics Workshop, Plant and Animal Genome Conference, San Diego, CA, January 12, 2014.
- Seventh International Conference on Advances in Canine & Feline Genomics and Inherited Diseases: September 23-27, 2013. Broad Institute, Boston, Massachusetts.
- Sixth International Conference on Advances in Canine & Feline Genomics and Inherited Diseases: May 28-June 1, 2012. Visby, Sweden.
- Fifth International Conference on Advances in Canine & Feline Genomics and Inherited Diseases: September 22-25, 2010. Baltimore, Maryland.
- Fourth International Conference on Advances in Canine & Feline Genomics and Inherited Diseases: May 21-24, 2008. Saint Malo, France.
- Third International Conference on Advances in Canine & Feline Genomics and Inherited Diseases: August 3-6, 2006, Davis, California.
- Second International Conference on Advances in Canine & Feline Genomics: Comparative Genome Anatomy and Genetic Disease. October 16-19, 2004, Utrecht, The Netherlands.
- Workshop on Comparative Genome Analysis. January 12, 2004. University of California, San Diego.
- First International Conference on Advances in Canine & Feline Genomics: Comparative Genome Anatomy and Genetic Disease. May 16-19, 2002, St. Louis, Missouri.

### GRANT REVIEWS

- *Ad hoc* member, NIH Genetic Variation and Evolution Study Section
- National Science Foundation (DEB & MCB)
- Alberta Innovation and Science, Canada
- Wellcome Trust Foundation, United Kingdom
- Marsden Foundation, Royal Society of New Zealand

### AD HOC MANUSCRIPT REVIEWS FOR PROFESSIONAL JOURNALS

- |  |   |
|--|---|
| • <i>Bioinformatics</i>                            | • <i>BMC Evolutionary Biology</i>         |
| • <i>Biological Journal of the Linnean Society</i> | • <i>BMC Genetics</i>                     |
| • <i>Biotechniques</i>                             | • <i>BMC Genomics</i>                     |
|  | • <i>Cytogenetics and Genome Research</i> |

- *Gene*
- *Genetics*
- *Genome Biology and Evolution*
- *Genome Research*
- *Genomics*
- *Journal of Heredity*
- *Journal of Mammalogy*
- *Journal of Molecular Evolution*
- *Mammal Review*
- *Molecular Biology and Evolution*
- *Molecular Ecology*
- *Molecular Phylogenetics and Evolution*
- *Nature*
- *Nature Medicine*
- *New England Journal of Medicine*
- *Nucleic Acids Research*
- *PLoS Biology*
- *PLoS Computational Biology*
- *PLoS Genetics*
- *PLoS ONE*
- *PNAS-USA*
- *Proceedings of the Royal Society-London, B*
- *Science*
- *Systematic Biology*
- *Trends in Genetics*