

CURRICULUM VITAE

Paul B. Samollow
(October 31, 2008)

Professional Address:

Department of Veterinary Integrative Biosciences
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Education:

	<u>Degree</u>	<u>Date</u>	<u>Major Field</u>
University of California, San Diego	B.A.	1971	Biology
Oregon State University, Corvallis	Ph.D.	1978	Zoology/Statistics

Dissertation Title: Dynamics of Enzyme Polymorphism in a Natural Population of the Boreal Toad, *Bufo boreas boreas* Baird and Girard: Evidence of Natural Selection via Differential Mortality in Early Life History Stages.

Positions Held:

1978 (Jan. - Aug.)	Lecturer	Department of Biology Humboldt State University, Arcata, CA
1978 (Sept. - Dec.)	Instructor	Biology Program Oregon State University, Corvallis, OR
1979 (Jan. - June)	Assistant Professor (sabbatical replacement)	Department of Zoology University of Montana, Missoula, MT
1979-1981	Postdoctoral Res. Assoc.	Hawaii Institute of Marine Biology University of Hawaii at Manoa, Kaneohe, HI
1981-1984	Postdoctoral Scientist	Department of Genetics Southwest Foundation for Biomedical Research, San Antonio, TX
1984-1987	Assistant Scientist	Department of Genetics Southwest Foundation for Biomedical Research, San Antonio, TX
1987-1991	Assistant Professor	Department of Biology Lehigh University, Bethlehem, PA

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Positions Held (continued):

1987-1991	Adjunct Assistant Scientist	Department of Genetics Southwest Foundation for Biomedical Research, San Antonio, TX
1991-1996	Assistant Scientist	Department of Genetics Southwest Foundation for Biomedical Research, San Antonio, TX
1996-2005	Associate Scientist	Department of Genetics Southwest Foundation for Biomedical Research, San Antonio, TX
2005-present	Professor	Dept. of Veterinary Integrative Biosciences, Texas A&M University, College Station, TX

Faculty Teaching Experience: (G = graduate level course)

Humboldt State University:	<i>General Genetics</i> <i>Evolution</i> <i>Advanced Evolution (Ecological Genetics) (G)</i>
Oregon State University:	<i>Ecological Methods</i>
University of Montana:	<i>Introduction to the Animal Kingdom</i> <i>Evolution</i> <i>Population Biology (G)</i> <i>Seminar (G)</i>
Lehigh University:	<i>Introduction to Environmental and Organismal Biology</i> <i>Genetics</i> <i>Genetics Laboratory</i> <i>Evolution</i> <i>Population Genetics (G)</i> <i>Molecular and Cell Biology (G)</i> <i>Seminar (G)</i>
Texas A&M University	<i>Biomedical Genetics (GENE 320/BIMS 320)</i> <i>Directed Studies (VIBS 485)</i>

Thesis Committees and Reviews:

- Laura Givens, *Undergraduate Student Honors Thesis (ad hoc reviewer)*, Department of Biology, Trinity University, 1993.
- Lisa Glass, *Undergraduate Student Honors Thesis Committee (member)*, Department of Biology, Trinity University, 1996-1997.
- Timothy Vail, *Ph.D. Thesis Committee (advisor)*, Department of Molecular Biology, Lehigh University, 1991-1997.
- Katarzyna Miska, *Ph.D. Thesis Committee (member)*, Department of Biology, University of New Mexico, 2002.

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Thesis Committees and Reviews (continued):

- Jacey Hornecker, *M.S. Thesis Committee* (member), Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, 2004-2006.
Jacey Hornecker, *Ph.D. Thesis Committee* (member), Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, 2006-present.
Nandina Paria, *Ph.D. Thesis Committee* (member), Department of Veterinary Integrative Biosciences, Texas A&M University, College Station, 2006- present.
Jixin Wang, *Ph.D. Thesis Committee* (member), Department of Veterinary Integrative Biosciences, Texas A&M University, College Station, 2007- present.
Kory Douglas, *Ph.D. Thesis Committee* (Chair), Department of Veterinary Integrative Biosciences, Texas A&M University, College Station, 2008- present.

Postdoctoral Students:

- Andrey A. Perelygin, Ph.D. (1993-1995): Assistant Research Professor, Department of Biology, Georgia State University, Atlanta GA.
Patrick W. Zwartjes, Ph.D. (1999-2000): Instructor, Department of Life Sciences, Portland Community College, Portland, OR
Xiang-Jun Shen, Ph.D. (2002-2003): Research Associate, Department of Psychiatry and Behavioral Neuroscience, Wayne State University School of Medicine, Detroit, MI
Nicolas Gouin, Ph.D. (2001-2005): Assistant Professor, Department of Zoology, Universidad de Concepción, Concepción, Chile.
Deborah A. Triant, Ph.D. (2006-2007): Postdoctoral Scientist, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA
Christopher P. Childers, Ph.D. (2006- 2007): Postdoctoral Researcher, Department of Biology, Georgetown University, Washington, D.C.

Honors:

- University of California President's Undergraduate Fellowship, 1969
Sigma- χ Grant-in-Aid of Research, 1973-1974
National Research Service Award, National Institutes of Health, 1983-1985
Distinguished Service Award, Texas Genetics Society, 2005

Current Professional Memberships:

- American Association for the Advancement of Science
Genetics Society of America
Society for the Study of Evolution
Texas Genetics Society

Professional Service, Extramural:

Grant Reviews:

- Australian Research Council
Biotechnology and Biological Sciences Research Council (UK)
(continued)

Grant Reviews (continued):

National Science Foundation:

Ecology Program

Eukaryotic Genetics Program

Population Biology and Physiological Ecology Program

Research at Foreign Centers of Excellence Program

Systematic Biology Program

Natural Environment Research Council (UK)

The Royal Society International Incoming Fellowships Programme (UK)

Manuscript Reviews:

American Journal of Primatology

Australian Mammalogy

Biochemical Genetics

Comparative Biochemistry and Physiology

Copeia

Cytogenetics and Cell Genetics

Evolution

Gene Families and Isozymes Bulletin

Genomics

ILAR Journal

Journal of Experimental Zoology

Journal of Medical Primatology

Lab Animal

PLoS one

The Auk

Transactions of the American Fisheries Society

Zebrafish

Editorial Board:

2000-present *Gene Families and Isozymes Bulletin*

Advisory Panels:

1989 *Gene Nomenclature System for Protein-Coding Loci in Fish* (guidelines), Fish Genetics Nomenclature Committee of the American Fisheries Society.

Reviewer.

2004-2007 *Monodelphis domestica* Genome Sequencing Consortium; *Genome Annotation Working Groups*, Biology Working Group (Group Leader)
Assembly, Landscape, and SNPs Working Group (Member)

Professional Society Offices:

Texas Genetics Society:

Student Presentation Awards Panel: 1987, '93, '99, 2001, '02, '05.

Awards Committee: 1993-96, 1996-97 (Chair), 2001-03; 2003-04 (Chair), 2006-07.

Board of Directors: 1994-97, 1999-2002

Nominations Committee: 1997-98, 2001-02, 2003-04; (Chair) 2007-08.

Program Committee: Chair: 1999-2000.

President: 2000-01.

Local Arrangements Committee, Chair: 2007-08.

Professional Meetings Organized:

23rd Annual Isozyme Conference. Marco Island, Florida, December 5-9, 1989. Conference Organizer and Chairman

9th International Congress on Genes, Gene Families, and Isozymes. San Antonio, Texas, April 14-19, 1997.

Publicity and Registration Committee, Chairman

Executive Committee

Program Committee

27th Annual Meeting, Texas Genetics Society. Houston, Texas, March 23-25, 2000.

Program Organizer and Meeting Chairman

37th Annual Gene Families and Isozymes Conference. Ambergris Caye, Belize, December 7-13, 2003. Conference Co-organizer and Co-chairman

Monodelphis domestica Genome Sequencing Consortium, initial meeting. Broad Institute Genome Sequencing Center, Cambridge, MA. November 15, 2004. Meeting Co-organizer.

35th Annual Meeting, Texas Genetics Society. College Station, Texas, March 27-29, 2008.

Local Arrangements Organizer and Committee Chair

Genomic Resource Initiatives Organized:

2001 Proposal for Constructing a BAC Library from *Monodelphis domestica*, P. Samollow* and C. Amemiya (<http://www.genome.gov/10001852>); white paper submitted to the NIH BAC Resource Network program. Status: library completed and available at (<http://bacpac.chori.org/opposum6.htm>).

2003 Proposal for Complete Sequencing of the Genome of a Marsupial: The Gray, Short-tailed Opossum, *Monodelphis domestica*, C. T. Amemiya, J.M. Greally, R. L. Jirtle, E. S. Lander, K. Lindblad-Toh, R. D. Miller, D. D. Pollock, **P. B. Samollow***, M. S. Springer, and R. K. Wilson (<http://www.genome.gov/10002154>); white paper submitted to the National Human Genome Research Institute (NHGRI) Genome Resources and Sequencing Priorities Panel. Status: full-genome assembly and annotation completed and published - *Nature*: 447:167-177.

2004 Proposal for Constructing BAC Libraries for *Xiphophorus* Species, P. B. Samollow*, R. B. Walter, S. Kazianis, and C. T. Amemiya (not yet on website); white paper

submitted to the NIH BAC Resource Network program. Status: libraries for *X. maculatus* and *X. helleri* completed and available at (<http://bacpac.chori.org/library.php?id=353> and <http://bacpac.chori.org/library.php?id=349>, respectively).

*Organizer, principal author, and submitter.

Professional Service, Institutional (Southwest Foundation for Biomedical Research):

Animal Research Committee: 1986-87.

Laboratory Opossum Colony Support Plan, Ad hoc advisor: 1993.

Scientific Strategic Planning Panels:

Panel 3 (Cancer Research): 1993.

Panel 6 (Developmental Biology and Neonatal Diseases): 1993.

Panel 8 (Reproductive Biology): 1993.

Panel 9 (General Medical Science): 1993.

Support Services Strategic Planning Panel:

Panel 2 (Other Animal Resources): 1993.

Science and Education Awards Panel: Southwest Foundation Forum, 1993, 1994.

Southwest Foundation High School Tour Program, Host/Speaker: 1982-87, 1992-94.

Nominations Committee, SFBR Faculty Assembly, Chairman: 1995.

Southwest Foundation Forum Reception and Tour Program, Host/Speaker: 1983-84, 1997.

Professional Service, Institutional (Texas A&M University):

Graduate Faculty: 2005-present.

Faculty of Genetics: Executive Committee: 2006-2007, 2008-2010.

Student Presentations Awards Panel (member/judge), Department of Veterinary Integrative Biosciences, Annual Retreat, 2006.

College of Veterinary Medicine Ad Hoc Committee on Genetics Teaching: 2007.

Faculty of Genetics: Chair, Faculty of Genetics Awards Committee: 2008-2009.

Dept. of Veterinary Integrative Biosciences: Ad Hoc 3rd Year Faculty Review Committee: 2008.

Publications:

Valentine, D. W., M. E. Soulé, and **P. Samollow**. 1972. Asymmetry analysis in fishes: a possible statistical indicator of environmental stress. *Fishery Bulletin* 71:357-370.

Valentine, D. W., and **P. B. Samollow**. 1973. A deformed kelp bass, *Paralabrax clathratus* (Girard), from Alijos Rocks, Baja California. *Calif. Fish and Game* 59:148-151.

Samollow, P. B. 1980. Selective mortality and reproduction in a natural population of *Bufo boreas*. *Evolution* 34:18-39.

Shaklee, J. B., and **P. B. Samollow**. 1980. Genetic aspects of population structure of four species in the Northwestern Hawaiian Islands. In: R. W. Grigg and R. T. Pfund (eds.), Proc. Symp. Status of Resource Investigations in the Northwestern Hawaiian Islands. *Sea Grant Misc. Report, UNIHI-SEAGRANT-MR-80-84*.

Publications (continued):

- Samollow, P. B.**, P. S. Dawson, and R. A. Riddle. 1982. Differences in linkage-group affiliations among enzyme-coding loci in *Tribolium castaneum* and *T. confusum*. *Tribolium Information Bulletin* 22:129-133.
- Samollow, P. B.**, P. S. Dawson, and R. A. Riddle. 1983. X-linked and autosomal inheritance patterns of homologous genes in *Tribolium*. *Biochem. Genet.* 21:167-176.
- Samollow, P. B.**, and M. E. Soulé. 1983. A case of stress related heterozygote superiority in nature. *Evolution* 37:646-649.
- Shaklee, J. B., and **P. B. Samollow**. 1984. Genetic variation and population structure in a spiny lobster (*Panulirus marginatus*) in the Hawaiian Archipelago. *Fishery Bulletin* 82:693-702.
- Shaklee, J. B., and **P. B. Samollow**. 1984. Genetic variation and population structure in a deep-water snapper (*Pristipomoides filamentosus*) in the Hawaiian Archipelago. *Fishery Bulletin* 82:703-713.
- Dawson, P. S., and **P. B. Samollow**. 1985. Chromosome evolution in *Tribolium* flour beetles: Evidence from linkage of hexokinase-1 and malic enzyme in *T. castaneum* and *T. confusum*. *Evolution* 39:220-223.
- Samollow, P. B.**, J. L. VandeBerg, H. W. Kunz, and T. J. Gill, III. 1985. Analysis of neuraminidase isozyme phenotypes in mammalian tissues: An electrophoretic approach. *Biochem. Biophys. Res. Comm.* 126:1182-1188.
- Samollow, P. B.**, J. L. VandeBerg, A. L. Ford, T. C. Douglas, and C. S. David. 1986. Electrophoretic analysis of liver neuraminidase-1 variation in mice, and additional evidence concerning the location of *Neu-1*. *J. Immunogenet.* 13:29-39.
- Samollow, P. B.**, J. L. VandeBerg, A. L. Ford, H. W. Kunz, and T. J. Gill, III. 1986. Genetic analysis of liver neuraminidase isozymes in *Rattus norvegicus*: Independent control of NEU-1 and NEU-2 phenotypes. *Genetics* 114:247-258.
- VandeBerg, J. L., E. S. Robinson, **P. B. Samollow**, and P. G. Johnston. 1987. X-linked gene expression and X-chromosome inactivation: Marsupials, mouse, and man compared. *Isozymes Curr. Top. Biol. Med. Res.* 15:225-253.
- Samollow, P. B.**, A. L. Ford, and J. L. VandeBerg. 1987. X-linked gene expression in the Virginia opossum: Differences between the paternally derived *Gpd* and *Pgk-A* loci. *Genetics* 115:185-195.
- Samollow, P. B.**, A. L. Ford, H. W. Kunz, and T. J. Gill, III. 1987. Mapping the *Neu-1* locus to the major histocompatibility complex (*RT1*) in the rat. *Immunogenetics* 26:188-190.
- Kaslow, D. C., B. R. Migeon, M. G. Persico, M. Zollo, J. L. VandeBerg, and **P. B. Samollow**. 1987. Molecular studies of marsupial X chromosomes reveal limited sequence homology of mammalian X-linked genes. *Genomics* 1:19-28.
- Samollow, P. B.**, P. G. Johnston, A. L. Ford, and J. L. VandeBerg. 1989. X-linked gene expression in metatherian fibroblasts: Evidence from the *Gpd* and *Pgk-A* loci in the Virginia opossum and the red-necked wallaby. *Biochem. Genet.* 27:313-320.
- Samollow, P. B.**, A. L. Ford, and J. L. VandeBerg. 1990. Biochemical characteristics and subcellular localizations of rat liver neuraminidase isozymes: A paradox resolved. *Biochem. Genet.* 28:283-298.
- VandeBerg, J. L., M. J. Aivaliotis, and **P. B. Samollow**. 1992. X-linked glucose-6-phosphate dehydrogenase (G6PD) and autosomal 6-phosphogluconate dehydrogenase (6PGD) polymorphisms in baboons. *Biochem. Genet.* 30:567-579.
- Robinson, E. S., **P. B. Samollow**, J. L. VandeBerg, and P. G. Johnston. 1994. X-chromosome replication patterns in adult, newborn, and prenatal opossums. *Reprod. Fertil. Devel.* 6:533-540.

Publications (continued):

- Williams-Blangero, S., A. Perelygin, K. Brasky, and **P. Samollow**. 1994. Paternity resolution using simple protein polymorphisms in chimpanzees. *Lab. Primate Newslett.* 33 (no. 4):5-7.
- Perelygin, A. A., **P. B. Samollow**, and J. L. VandeBerg. 1994. A new *HindIII* RFLP of NRAS in the laboratory opossum, *Monodelphis domestica*. *Anim. Genet.* 25:432.
- Samollow, P. B.**, E. S. Robinson, A. L. Ford, and J. L. VandeBerg. 1995. Developmental progression of *Gpd* expression from the inactive X chromosome of the Virginia opossum. *Devel. Genet.* 16:367-378.
- Comuzzie, A. G., J. Blangero, M. C. Mahaney, B. D. Mitchell, J. E. Hixson, **P. B. Samollow**, M. P. Stern, and J. W. MacCluer. 1995. A major gene with sex-specific effects influences fat mass in Mexican Americans. *Genet. Epidemiol.* 12:475-488.
- Perelygin, A. A., **P. B. Samollow**, L. M. Perelygina, L. M. Cherry, S. M. Mahaney, and J. L. VandeBerg. 1996. A new DNA marker, *UI5557*, is linked to protease inhibitor and adenylate kinase 1 in the laboratory opossum, *Monodelphis domestica*. *Anim. Genet.* 27:113-116.
- Rogers, J., **P. B. Samollow**, and A. G. Comuzzie. 1996. Technical comment: Estimating the age of the common ancestor of men from the *ZFY* intron. *Science* 272:1360-1361.
- Blangero, J., S. Williams-Blangero, M. C. Mahaney, A. G. Comuzzie, J. E. Hixson, **P. B. Samollow**, R. M. Sharp, M. P. Stern, and J. W. MacCluer. 1996. Effects of a major gene for apolipoprotein A-I concentration are thyroid hormone dependent in Mexican Americans. *Arterioscler. Thromb. Vasc. Biol.* 16:1177-1183.
- Samollow, P. B.**, L. M. Cherry, S. M. Witte, and J. Rogers. 1996. Interspecific variation at the Y-linked *RPS4Y* locus in hominoids: Implications for phylogeny. *Am. J. Phys. Anthropol.* 101:333-343.
- Atwood, L. D., C. M. Kammerer, **P. B. Samollow**, J. E. Hixson, R. E. Shade, and J. W. MacCluer. 1997. Linkage of essential hypertension to the angiotensinogen locus in Mexican Americans. *Hypertension* 30:326-330.
- Samollow, P. B.** and J. A. M. Graves. 1998. Gene maps of marsupials. *ILAR J.* 39:203-224.
- MacCluer, J. W., M. P. Stern, L. Almasy, L. A. Atwood, J. Blangero, A. G. Comuzzie, B. Dyke, S. M. Haffner, R. D. Henkel, J. E. Hixson, C. M. Kammerer, M. C. Mahaney, B. D. Mitchell, D. L. Rainwater, **P. B. Samollow**, R. M. Sharp, J. L. VandeBerg, and J. T. Williams. 1999. Genetics of atherosclerosis risk factors in Mexican Americans. *Nutrition Rev.* 57:s59-s65.
- Atwood, L. D., **P. B. Samollow**, J. E. Hixson, M. P. Stern, and J. W. MacCluer. 2001. Genome-wide linkage analysis of pulse pressure in Mexican Americans. *Hypertension*: 37:425-428.
- Atwood, L. D., **P. B. Samollow**, J. E. Hixson, M. P. Stern, and J. W. MacCluer. 2001. Genome-wide linkage analysis of blood pressure in Mexican Americans. *Genet. Epidemiol.* 20:373-382.
- Kammerer, C. M., J. L. Schneider, S. A. Cole, J. E. Hixson, **P. B. Samollow**, J. R. O'Connell, R. Perez, T. D. Dyer, L. Almasy, J. Blangero, R. L. Bauer, and B. D. Mitchell. 2003. Quantitative trait loci on chromosomes 2p, 4p and 13q influence bone mineral density of the forearm and hip in Mexican Americans. *J. Bone Miner. Res.*: 18: 2245-2252.
- Kammerer, C. M., N. Gouin, **P. B. Samollow**, J. F. VandeBerg, J. E. Hixson, S. A. Cole, J. W. MacCluer, and L. D. Atwood. 2004. Two quantitative trait loci affect ACE activities in Mexican-Americans. *Hypertension*: 43:466-470.
- Samollow, P. B.**, C. M. Kammerer, S. M. Mahaney, J. L. Schneider, S. J. Westenberger, J. L. VandeBerg, and E. S. Robinson. 2004. First generation linkage map of the gray, short-tailed opossum, *Monodelphis domestica*, reveals genome-wide reduction in female recombination rates. *Genetics*: 166:307-329.

Publications (continued):

- Samollow, P. B.**, G. Perez, C. M. Kammerer, D. Finegold, P. W. Zwartjes, L. M. Havill, A. G. Comuzzie, M. C. Mahaney, H. H. Göring, J. Blangero, T. P. Foley, and M. M. Barmada. 2004. Genetic and environmental influences on thyroid hormone variation in Mexican Americans. *J. Clin. Endocrinol. Metab.* 89:3276-3284.
- Kammerer C. M., A. A. Dualan, **P. B. Samollow**, A. R. S. Périssé, R. L. Bauer, J. W. MacCluer, D. H. O'Leary, and B. D. Mitchell. 2004. Bone mineral density, carotid artery intimal medial thickness, and the vitamin D receptor *BsmI* polymorphism in Mexican American women. *Calcif. Tissue Int.* 75:292-298.
- Gouin, N., S. J. Westenberger, S. M. Mahaney, and **P. B. Samollow**. 2005. Isolation and characterization of polymorphic microsatellite markers in the gray, short-tailed opossum (*Monodelphis domestica*). *Molec. Ecol.* 5:87-89.
- Gouin, N., S. J. Westenberger, S. M. Mahaney, P. Lindley, and **P. B. Samollow**. 2005. Development, inheritance, and linkage-group assignment of 60 novel microsatellite markers in the gray, short-tailed opossum *Monodelphis domestica*. *Genome* 48:1019-1027.
- Tavtigian, S.V., A. M. Deffenbaugh, L. Yin, T. Judkins, T. Scholl, **P. B. Samollow**, D. de Silva, A. Zharkikh, and A. Thomas. 2006. Comprehensive statistical study of 452 BRCA1 missense substitutions with classification of eight recurrent substitutions as neutral. *J. Med. Genet.* 43:295-305.
- Gouin, N., J. E. Deakin, K. B. Miska, R. D. Miller, C. M. Kammerer, J. A. M. Graves, J. L. VandeBerg, and **P. B. Samollow**. 2006. Linkage mapping and physical localization of the major histocompatibility complex region of the marsupial *Monodelphis domestica*. *Cytogenetic and Genome Research* 112:277-285.
- Belov K., J. E. Deakin, A. T. Papenfuss, M. L. Baker, S. D. Melman, H. V. Siddle, N. Gouin, D. L. Goode, T. J. Sargeant, M. D. Robinson, M. J. Wakefield, S. Mahony, J. G. Cross, P. V. Benos, **P. B. Samollow**, T. P. Speed, J. A. Graves, and R. D. Miller. 2006. Reconstructing an ancestral mammalian immune supercomplex from a marsupial MHC. *PLoS Biol.* 4: 317-328.
- Tavtigian, S. V., **P. B. Samollow**, D. de Silva, and A. Thomas. 2006. An analysis of unclassified missense substitutions in human *BRCA1*. *Familial Cancer* 5:77-88.
- Hoppe, R., T. D. Lambert, **P. B. Samollow**, H. Breer, and J. Strotmann. 2006. Evolution of the 'OR37' subfamily of olfactory receptors: a cross species comparison. *J. Molec. Evol.* 62:460-472.
- Walter, R. B., Z. Ju, A. Martinez, C. Amemiya, and **P. B. Samollow**. 2006. Genomic Resources for *Xiphophorus* Research. *Zebrafish* 3:11-22.
- Gouin, N., A. M. Wright, K. B. Miska, Z. E. Parra, **P. B. Samollow**, M. L. Baker, and R. D. Miller. 2006. *Modo-UG*, a marsupial non-classical MHC class I locus. *Immunogenetics*: 58:396-406.
- Samollow, P. B.** 2006. Status and applications of genomic resources for the gray, short-tailed opossum, *Monodelphis domestica*, an American marsupial model for comparative biology. *Aust. J. Zool.* 54:173-196.
- Verne, S., N. Puillandre, G. Brunet, N. Goun, **P. B. Samollow**, J. D. Anderson, and F. Grandjean. 2006. Characterization of polymorphic microsatellite loci in the terrestrial isopod *Armadillidium vulgare*. *Molec. Ecol Notes* 6:328-330.
- Samollow, P. B.**, N. Gouin, P. Miethke, J.A.M. Graves, J. L. VandeBerg, and C. M. Kammerer. 2007. A microsatellite-based, physically anchored linkage map for the gray, short-tailed opossum (*Monodelphis domestica*). *Chromosome Res.*: 15:269-281.
- Davidow, L, S., M. Breen, S. E. Duke, **P. Samollow**, J. R. McCarrey, and J. T. Lee. 2007. The search for a marsupial *XIC* reveals a break with vertebrate synteny. *Chromosome Res.*: 15:137-146.

Publications (continued):

- Duke, S., **P. B. Samollow**, E. Mauceli, K. Lindblad-Toh, and M. Breen. 2007. Integrated cytogenetic BAC map of the genome of the gray short-tailed opossum, *Monodelphis domestica*. *Chromosome Res.* 15:361-370.
- Gu, W., D. A. Ray, J. A. Walker, E. W. Barnes, A. J. Gentles, **P. B. Samollow**, J. Jurka, M. A. Batzer, and D. D. Pollock. 2007. SINEs, evolution and genome structure in the opossum. *Gene*. 396:46-58.
- Mikkelsen T. S., M. J. Wakefield, B. Aken, C. T. Amemiya, J. L. Chang, S. Duke, M. Garber, A. J. Gentles, L. Goodstadt, A. Heger, J. Jurka, M. Kamal, E. Mauceli, S. M. J. Searle, T. Sharpe, M. L. Baker, M. A. Batzer, P. V. Benos, K. Belov, M. Clamp, A. Cook, J. James Cuff, R. Das, L. Davidow, J. E. Deakin, M. J. Fazzari, J. L. Glass, M. Grabherr, J. M. Greally, W. Gu, T. Hore, G. A. Huttley, R. L. Jirtle, E. Koina, J. T. Lee, S. Mahony, M. A. Marra, R. D. Miller, R. D. Nicholls, M. Oda, A. T. Papenfuss, Z. E. Parra, D. D. Pollock, D. A. Ray, J. E. Schein, T. P. Speed, K. Thompson, J. L. VandeBerg, C. M. Wade, J. A. Walker, P. Waters, C. Webber, J. R. Weidman, X. Xie, M. C. Zody, Broad Institute Genome Sequencing Platform, Broad Institute Whole Genome Assembly Team, J. A. M. Graves, C. P. Ponting, M. Breen, **P. B. Samollow**, E. S. Lander, K. Lindblad-Toh. 2007. Genome of the marsupial *Monodelphis domestica* reveals innovation in non-coding sequences. *Nature*: 447:167-177.
- Hornecker, J. L., **P. B. Samollow**, E. S. Robinson, J. L. VandeBerg, and J. R. McCarrey. 2007. Meiotic sex chromosome inactivation in the marsupial *Monodelphis domestica*. *Genesis*: 696-708.
- Devor, E.J. and **P. B. Samollow**. 2007. *In vitro* and *in silico* annotation of conserved and nonconserved microRNAs in the genome of the marsupial *Monodelphis domestica*. *J. Hered.* 99:66-72.
- Reimer, J. M., M. Enoksson, **P. B. Samollow**, and L. Hellman. 2007. Extended substrate specificity of opossum chymase – implications for the origin of mast cell chymases. *Mol. Immunol.* 45:2116-2125.
- Devor E, J., L. Huang, and **P. B. Samollow**. 2008. piRNA-like RNAs in the marsupial *Monodelphis domestica* identify transcription clusters and likely marsupial transposon targets. *Mamm. Genome* [Epub ahead of print].
- Samollow, P. B.** 2008 The opossum genome: insights and opportunities from an alternative mammal. *Genome Res.* 18:1199-1215.

Published Abstracts:

- Samollow, P. B.** 1980. Morphological and biochemical analysis of population structure in Hawaiian limpets. *Am. Zool.* 20:782.
- Samollow, P. B.**, P. S. Dawson, and J. Jost. 1983. Biochemical evidence of an autosome to X chromosome translocation in *Tribolium*. *Isozyme Bull.* 16:54.
- Samollow, P. B.** 1983. Geographic differentiation and population structure in the Hawaiian limpet, *Cellana exarata*. *Isozyme Bull.* 16:85.
- Samollow, P. B.** 1983. A testis specific modification of arginine kinase (EC 2.7.3.3) in Hawaiian limpets. *Genetics* 104:s61.
- Samollow, P. B.**, J. L. VandeBerg, A. L. Ford, H. W. Kunz, and T. J. Gill, III. 1985. Electrophoretic detection and genetic analysis of liver neuraminidase isozymes in rats. *Isozyme Bull.* 18:88.
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Published Abstracts (continued):

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- Samollow, P. B.**, L. M. Cherry, S. M. Witte, and J. Rogers. 1995. Interspecific variation at the Y-linked *RPS4Y* locus in hominoids: Implications for human-gorilla-chimpanzee phylogeny. *Am. J. Hum. Genet.* 57 (suppl.):A171.
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- Atwood, L. D., **P. B. Samollow**, J. E. Hixson, M. P. Stern, and J. W. MacCluer. 1999. Linkage of systolic blood pressure to *D21S1440* in Mexican Americans. *Am. J. Hum. Genet.* 65 (suppl.):A241.
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Published Abstracts (continued):

- Samollow, P. B.**, C. M. Kammerer, J. L. VandeBerg, and S. M. Mahaney. 2000. Linkage map development for the gray, short-tailed opossum, *Monodelphis domestica*. *Gene Families and Isozymes Bull.* 33:45.
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- Kammerer, C. M., N. Gouin, **P. B. Samollow**, J. F. VandeBerg, J. E. Hixson, S. A. Cole, J. W. MacCluer, and L. D. Atwood. 2003. Two quantitative trait loci affect angiotensin converting enzyme activities in Mexican American Families. *Hypertension* 42: 445.
- Perez, G., N. Gouin, C. Kammerer, D. Finegold, T. P. Foley, S. Cole, J. Blangero, L. Almasy, **P. Samollow**, and M. M. Barmada. 2003. Multivariate genetic analysis of thyroid hormone traits. *Amer. J. Hum. Genet.:* 73 (suppl.):374.
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- Samollow, P. B.**, C. M. Kammerer, J. L. VandeBerg, and E. S. Robinson. 2004. Genome-wide reduction in female recombination in the gray, short-tailed opossum, *Monodelphis domestica*, and other oddities of a marsupial genome. *Gene Families and Isozymes Bull.* 36:20-21.
- Hornecker, J., **P. Samollow**, E. Robinson, J. VandeBerg, and J. McCarrey. 2007. Meiotic sex chromosome inactivation in marsupials - A potential link to nonrandom inactivity of the paternal X. *Biol. Reprod.* SI, 2007:114-115.
- Samollow, P. B.**, N. Gouin, P. Miethke, J. L. VandeBerg, J. A. M. Graves, and C. M. Kammerer. An improved and Physically Anchored Linkage Map for the Gray, Short-tailed Opossum (*Monodelphis domestica*). *Gene Families and Isozymes Bull.:* in press.

Contributed Presentations:

- Samollow, P. B.** Natural selection via differential mortality in the western toad, *Bufo boreas*. Society for the Study of Evolution, Boulder, Colorado. June 19, 1979.
- Samollow, P. B.** Aspects of biochemical and morphological variation in Hawaiian limpets. American Society of Naturalists and Society for the Study of Evolution, Tucson, Arizona. June 30, 1980.
- Samollow, P. B.** Morphological and biochemical analysis of population structure in Hawaiian limpets. American Society of Zoologists, Seattle, Washington. December 27, 1980.
- Samollow, P. B.**, P. S. Dawson, and J. Jost. Biochemical evidence of an autosome to X chromosome translocation in *Tribolium*. Isozyme Conference, St. Thomas, U.S. Virgin Islands. December 10, 1982.

Contributed Presentations (continued):

- Samollow, P. B.** Geographic differentiation and population structure in the Hawaiian limpet, *Cellana exarata*. 4th International Isozyme Congress, Austin, Texas. June 17, 1982.
- Samollow, P. B.,** and M. E. Soulé. Episodic overdominant survival in the western toad, *Bufo boreas*. Texas Genetics Society, Austin, Texas. March 18, 1983.
- Samollow, P. B.** A testis specific modification of arginine kinase (EC 2.7.3.3) in Hawaiian limpets. Evolution '83 (Society for the Study of Evolution, American Society of Naturalists, and Genetics Society of America joint meeting), St. Louis, Missouri. June 15, 1983.
- Samollow, P. B.** Genetic and morphologic differentiation among limpet species (genus *Cellana*) endemic to the Hawaiian Archipelago. American Society of Naturalists and Society for the Study of Evolution, Crested Butte, Colorado. June 28, 1984.
- Samollow, P. B.,** J. L. VandeBerg, A. L. Ford, H. W. Kunz, and T. J. Gill, III. Electrophoretic detection and genetic analysis of liver neuraminidase isozymes in rats. Isozyme Conference, St. Croix, U. S. Virgin Islands. December 8, 1984.
- Samollow, P. B.,** A. L. Ford, and J. L. VandeBerg. Dosage compensation of X-linked G6PD and PGK-A in the Virginia opossum, *Didelphis virginiana*. Isozyme Conference, St. Croix, U. S. Virgin Islands. December 6, 1985.
- Samollow, P. B.,** A. L. Ford, and J. L. VandeBerg. The Virginia opossum: A new model for research on X-chromosome inactivation. Texas Genetics Society, Houston, Texas. March 21, 1986.
- Samollow, P. B.** The phylogeny of X-chromosome inactivation: Evidence from *Gpd* and *Pgk-A* expression in the Virginia opossum. Society for the Study of Evolution, Durham, New Hampshire. June 22, 1986.
- Samollow, P. B.,** A. L. Ford, and J. L. VandeBerg. Subcellular localization and biochemical properties of rat liver neuraminidases. Isozyme Conference, St. Croix, U. S. Virgin Islands. December 5, 1986.
- Samollow, P. B.,** A. L. Ford, P. G. Johnston, and J. L. VandeBerg. X-linked gene expression in metatherian fibroblasts. Isozyme Conference, St. John, U. S. Virgin Islands, December 2, 1987.
- Samollow, P. B.,** A. L. Ford, and J. L. VandeBerg. X-linked gene expression in metatherian oocytes: New evidence from an American species. Isozyme Conference, St. Croix, U. S. Virgin Islands. December 8, 1988.
- Samollow, P. B.,** E. S. Robinson, A. L. Ford, and J. L. VandeBerg. Age-specific expression of the paternally-derived *Gpd* allele in the Virginia opossum. Isozyme Conference, Marco Island, Florida. December 6, 1989.
- Samollow, P. B.,** E. S. Robinson, A. L. Ford, and J. L. VandeBerg. X-linked *Gpd* expression in normal and triploid opossum fetuses. 8th International Congress of Human Genetics, Washington, D. C. October 6, 1991.
- Samollow, P. B.,** E. S. Robinson, A. L. Ford, and J. L. VandeBerg. X-linked gene expression and X-chromosome replication timing in the developing Virginia opossum. Isozyme Conference, St. Thomas, U. S. Virgin Islands. December 6, 1991.
- Samollow, P. B.,** L. M. Cherry, and J. Rogers. Sex identification and species discrimination via PCR amplification of a Y-linked ribosomal gene fragment. Isozyme Conference, St. Thomas, U. S. Virgin Islands. December 9, 1993.
- Samollow, P. B.,** L. M. Cherry, S. M. Witte, and J. Rogers. Evolution at the Y-linked *RPS4Y* locus in primates: Implications for human-gorilla-chimpanzee phylogeny. 8th International Congress on Isozymes, Brisbane, Queensland, Australia. June 26, 1995.
- Samollow, P. B.,** L. M. Cherry, S. M. Witte, and J. Rogers. Interspecific variation at the Y-linked *RPS4Y* locus in hominoids: Implications for human-gorilla-chimpanzee phylogeny. American Society of Human Genetics annual meeting, Minneapolis, MN. October 28, 1995.

Contributed Presentations (continued):

- Samollow, P. B.**, M. C. Mahaney, A. G. Comuzzie, and J. Blangero. Linkage between the *TPO* (thyroid peroxidase) locus and a QTL influencing serum thyrotropin and thyroxine levels in Mexican Americans. American Society of Human Genetics annual meeting, San Francisco, CA. October 31, 1996.
- Samollow, P. B.**, C. M. Kammerer, and J. L. VandeBerg. Linkage mapping in the gray short-tailed opossum, *Monodelphis domestica*. Conference on Gene Families and Isozymes, Grenada, W.I. December 10, 1996.
- Samollow, P. B.**, C. M. Kammerer, S. M. Mahaney, N. C. Stowell, and J. L. VandeBerg. Eight autosomal linkage groups of the gray, short-tailed opossum, *Monodelphis domestica*. Conference on Gene Families and Isozymes, Akumal, Mexico. December 10, 1997.
- Samollow, P. B.**, C. M. Kammerer, J. L. VandeBerg, and S. M. Mahaney. Linkage map development for the gray, short-tailed opossum, *Monodelphis domestica*. Conference on Gene Families and Isozymes, Punta Leona, Costa Rica. December 9, 1999.
- Samollow, P. B.**, C. M. Kammerer, S. M. Mahaney, S. J. Westenberger, J. L. VandeBerg, and J. L. Schneider. Progress, plans, and prospects for genetic mapping in the gray, short-tailed opossum, *Monodelphis domestica*. Conference on Gene Families and Isozymes, Punta Cana, Dominican Republic. December 11, 2001.
- Samollow, P. B.**, C. M. Kammerer, J. L. VandeBerg, and E. S. Robinson. Genome-wide reduction in female recombination in the gray, short-tailed opossum, *Monodelphis domestica*, and other oddities of a marsupial genome. Conference on Gene Families and Isozymes, San Pedro, Belize. December 8, 2003.
- Samollow, P. B.**, N. Gouin, P. Miethke, J. L. VandeBerg, J. A. M. Graves, and C. M. Kammerer. 2007. An improved and Physically Anchored Linkage Map for the Gray, Short-tailed Opossum (*Monodelphis domestica*). Conference on Gene Families and Isozymes, San Pedro, Belize. December 14, 2006.

Invited Lectures:

- Natural Selection via Differential Mortality in Toads. Department of Zoology, University of Montana. April 11, 1979.
- Electrophoretic Techniques in Population Biology: An Historical Overview and Contemporary Evaluation. University of Montana chapter of Sigma Xi. May 9, 1979.
- Selective Mortality in a Natural Population of the Western Toad. Department of Zoology, University of Hawaii at Manoa. December 14, 1979.
- Life, Death, and Genetic Dynamics in a Population of the Western Toad. Department of Biology, University of New Mexico. March 9, 1982.
- Can Hawaiian Limpets Swim? Observations on the Population Structure of *Cellana exarata*. Department of Biology, University of New Mexico. March 10, 1982.
- Genetics of Mammalian Neuraminidases. Southwest Foundation for Biomedical Research, April 4, 1984.
- An Isozyme Approach to Genetic Analysis of Neuraminidase Variation in Mammals. Department of Biology, Trinity University (San Antonio, TX), October 11, 1984.
- Isozymes and Polymorphism: A Workshop on Protein Electrophoresis in Population and Evolutionary Genetics. Department of Biology, Trinity University (San Antonio, TX), March 27, 1987.

Invited Lectures (continued):

- X-linked Gene Expression in the Virginia Opossum: A New Model for X-chromosome Inactivation Research. Pymatuning V Human Genetics Conference, University of Pittsburgh, Pymatuning Ecology Laboratory. October 2, 1988.
- Genetics of the Mammalian Neuraminidase Isozyme System. Pymatuning VI Human Genetics Conference, University of Pittsburgh, Pymatuning Ecology Laboratory. October 15, 1989.
- X-chromosome Inactivation: A Marsupial Perspective. Department of Biology, Trinity University (San Antonio, TX), March 23, 1992.
- Evolution and Development. Guest lecture; Mammalian Developmental Genetics course, Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, April 13, 1994.
- Exploring Genetic Landscapes: Gene Mapping in Marsupials and Y-chromosome Evolution in Primates. Southwest Foundation for Biomedical Research, February 7, 1996.
- Linkage Mapping in an American Marsupial, *Monodelphis domestica*. 9th International Congress on Genes, Gene Families, and Isozymes. April 15, 1997.
- Comparative Genomics of the Gray, Short-Tailed Opossum, *Monodelphis domestica*. Department of Biological Sciences, University of North Texas, February 18, 2002.
- Comparative Genomics of the Gray, Short-Tailed Opossum, *Monodelphis domestica*: Progress and Prospects. Department of Human Genetics, University of Pittsburgh Graduate School of Public Health, February 22, 2002.
- Comparative Genomics of the Gray, Short-Tailed Opossum, *Monodelphis domestica*: Progress and Prospects. Department of Biology, University of Texas at San Antonio, October 14, 2002.
- Genomic Resource Development in the Laboratory Opossum. National Center for Research Resources (NCR) Comparative Medicine Resource Directors Meeting, San Antonio, November 19, 2002.
- The Linkage Map of the Gray, Short-tailed Opossum, *Monodelphis domestica*: Genome-wide Reduction in Female Recombination and Other Oddities of a Marsupial Genome. Pymatuning Human Genetics Conference, University of Pittsburgh, Pymatuning Ecology Laboratory. September 6, 2003.
- The Gray, Short-tailed Opossum, *Monodelphis domestica*: Overview of Genetic and Genomic Resources, Linkage Maps, and Recombination Characteristics. *Monodelphis domestica* Genome Sequencing Consortium, Broad Institute Genome Sequencing Center, Cambridge, MA. November 15, 2004.
- The Unusual Genomic Characteristics of the Gray, Short-tailed Opossum, *Monodelphis domestica*. Department of Biological Sciences, University of Massachusetts – Lowell, February 10, 2005.
- A Marsupial Model for Biologic Research: The Gray, Short-tailed opossum, *Monodelphis domestica*. Guest lecture; Animal Models course. Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, April 6, 2005.
- The Gray, Short-tailed Opossum, *Monodelphis domestica*: A Marsupial Model for Genomic Research. Department of Veterinary Integrative Biosciences, Texas A&M University, June 1, 2005.
- A Marsupial Model for Genomic and Biomedical Research. Laboratory Animal Research and Resources, Comparative Medicine Program, Texas A&M University, February 9, 2006.
- Status of the Single-nucleotide Polymorphism Discovery Project for the Gray, Short-tailed Opossum, *Monodelphis domestica*. Opossum Genome Sequencing Consortium meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, May 10, 2006.

Research Support History:

- 1982-1984 National Science Foundation Grant #BNS 8120203; The Role of Experience in the Development of Behavior in a Model System. \$56,923. Principal Investigator: Andrew R. Blaustein, Co-Principal Investigators: Richard K. O'Hara and Paul B. Samollow.
- 1983-1984 Biomedical Research Support Grant S07 RR 05519-20, Division of Research Resources, National Institutes of Health; X-chromosome Inactivation in an American Marsupial. \$9,925. Principal Investigator: Paul B. Samollow.
- 1983-1985 National Service Research Award F32 GM 09014-01; National Institutes of Health; Genetics of a Laboratory Marsupial. \$38,508. Principal Investigator: Paul B. Samollow.
- 1984-1986 National Science Foundation Grant #BNS 8406256; Kin Recognition in Anuran Larvae: Comparative Ontogeny, Genetic Characterization of Aggregates, and Possible Functions. Principal Investigator: Andrew R. Blaustein. \$75,623 (\$5,284 to Samollow subproject).
- 1986-1989 National Science Foundation Grant #DCB 8516949; X-chromosome Inactivation in an American Marsupial, *Didelphis virginiana*. \$173,553. Principal Investigator John L. VandeBerg, Co-Principal Investigator: Paul B. Samollow (Samollow authored and administered this grant; VandeBerg was designated P.I. for administrative reasons).
- 1988-1989 Biomedical Research Support Grant S07 RR 07173-07; National Institutes of Health; A Research Resource for Studies of Developmental Homeostasis. \$2,775. Principal Investigator: Paul B. Samollow.
- 1989-1990 Biomedical Research Support Grant S07 RR 07173-08; National Institutes of Health; Developing an *in vitro* Capability for the *Xiphophorus* Tumor Model. \$2,225. Principal Investigator: Paul B. Samollow.
- 1989-1993 National Institutes of Health (NICHD) R01 HD 26962; X-chromosome Inactivation in Opossum Development. \$255,330. Principal Investigator: Paul B. Samollow.
- 1992-1997 National Institutes of Health (NCR) R29 RR 08122; Genetic Management of Chimpanzees in Biomedical Research. \$323,003. Principal Investigator: Sarah Williams-Blangero (\$98,012 to Samollow subproject).
- 1994-1995 The Ellwood Foundation. Untitled (Genetic characterization of *p53* variation in *Monodelphis domestica*). \$10,000 gift to Samollow research program.
- 1994-1996 Samuel Roberts Noble Foundation, Inc.; Molecular Genetic Aspects of Susceptibility to Skin and Eye Cancer. \$60,000. Principal Investigator: Paul B. Samollow.
- 1995-1996 Southwest Foundation Biomedical Research Support Grant Program; Candidate Genes in Human Thyroid Hormone Variation. \$12,000. Principal Investigator: Paul B. Samollow.
- 1994-1999 National Institutes of Health (NCR) P01 RR09919; The Laboratory Opossum: A New Model for Biomedical Research. \$1,105,547. Program Director: Edward S. Robinson. Project 3; Gene Mapping and Allelic Associations with Cancer. \$322,845. Project 3 Leader: Paul B. Samollow.
- 1996-2001 National Institutes of Health (NHLBI) 5R29 HL54707; Genetics of Blood Pressure Control in Mexican Americans. \$339,987. Principal Investigator: Larry D. Atwood. (\$48,923 to Samollow subproject).
- 1997-2002 National Institutes of Health (NIAMS) R01 AR43351; Genetics of Bone Density in Mexican Americans. \$831,625. Principal Investigator: Braxton D. Mitchell (\$47,589 to Samollow subproject).
- 1997-2002 National Institutes of Health (NIDDK) R01 DK57003; Genetics of Thyroid Hormones in Mexican Americans. \$619,712. Principal Investigator: Paul B. Samollow. Co-Principal Investigator: John Blangero.

Research Support History (continued):

- 1999-2004 National Institutes of Health (NCI) P01 CA75137; Genetic Determinants of Tumorigenesis. \$5,902,016. Program Director: Ronald. B. Walter.
Project 3: *Xiphophorus* Gene Map Saturation for Identification of Genes Regulating Tumor Development. \$137,894 (year 5 only). Project 3 Leader (Year 5 only): Paul B. Samollow.
- 2001-2005 National Institutes of Health (NCR) R24 RR014214; Genomic Resource Development in the Laboratory Opossum. \$800,000. Principal Investigator: Paul B. Samollow.
- 2005-2010 National Institutes of Health (NCR) R24 RR014214; Gene Expression Arrays for the Laboratory Opossum. \$1,114,913. Principal Investigator: Paul B. Samollow.