

CURRICULUM VITAE

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EDUCATION (INCLUDING DATES AND DEGREES OBTAINED):

1975 B.S. Zoology, magna cum laude, Ohio State University
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PROFESSIONAL APPOINTMENT:

1976-78 Research Assistant, Texas A&M University, College Station, TX
1978-84 Graduate Student, Teaching and Research Assistant, University Illinois, Urbana, IL
1984-86 Staff Fellow, NIH, NCI, DCE, Laboratory of Viral Carcinogenesis, Frederick, MD
1986-04 Senior Scientist, SAIC Frederick, NCI-FCRDC, Frederick, MD
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EDITORIAL REVIEWS:

Editorial Board:

Jounral of Heredity (Associate Editor)

Reviewer for:

Evolution

Journal of Mammalogy

Genomics

Cytogenetics and Cell Genetics

Systematic Biology

Cancer Genetics and Cytogenetics

Journal of Heredity

Chromosoma

Gene

Genome Research

Nucleic Acids Research

Chromosome Research

Proceedings National Academy Sciences (USA)

Laboratory Animal Research

Molecular Biology and Evolution

Journal of Infectious Diseases

Acta Theriologica (Grant proposals for National Science Foundation)

National Institutes of Health

The U.S. Department of Agriculture

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AWARDS AND HONORS:

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INVITED LECTURES:

08/85 International Theriological Congress, Edmonton Alberta

10/85 Numerical Taxonomy Society, Montreal, Canada

06/89 International Chromosome Conference, Stockholm, Sweden

08/89 Ninth International Human Gene Mapping Workshop, Paris, France

06/89 Tenth International Chromosome Conference, Uppsala, Sweden

06/90	Tenth International Human Gene Mapping Workshop, New Haven, CT
07/90	Fourth International Congress of Systematic and Evolutionary Biology, College Park, MD, USA
09/90	Texas A&M University College Station
05/91	Integrated Genetics, Inc., Framingham, MA
08/91	International Conference of Genetics, Toronto, Canada
05/92	Second International Human Chromosome 3 Workshop, Tokyo, Japan
06/92	International Conference on Molecular Evolution, University Park, PA, USA
05/93	Laboratory of Molecular Systematics, Smithsonian Institution, Washington, D.C.
06/93	US Depart of Agriculture, Beltsville, MD
06/93	Third International Human Chromosome 3 Workshop, Gronigen, Netherlands
08/94	Eleventh International Human Gene Mapping Workshop, London, England
1994	National Institutes of Health, Bethesda, MD
10/94	American Society of Human Genetics, Montreal, Canada
06/97	Third Nordic Genome Conference, Rekjavik, Iceland
07/98	Euroamerican Mamlion Congress, Santiago, Spain
03/99	Human Genome Meeting 99', Brisbane, Australia

JOURNAL ARTICLES:

1. Wilkins KT, Boeer WJ, Rogers DS and Modi WS. Records for Eight Texas Mammals. *Florida Sci* 42:59-60, 1979.
2. Lee MR and Modi WS. Chromosomes of Spilogale Pygmaea and S. Putorius Leucoparis. *J Mammal* 64:493-495, 1983.

3. Modi WS and Lee MR. Systematic Implications of Chromosomal Banding Analyses of Selected Populations of *Peromyscus Truei* (Rodentia: Muridae). *Proc Biol Soc Wash* 97:716-723, 1984.
4. Modi WS. Reproductice Tactics Among Deer Mice of the Genus *Peromyscus*. *Can J Zool* 62:2576-2584, 1985.
5. Schmidly DJ, Lee MR, Modi WS and Zimmerman EG. Systematics and Notes on the Biology of *Peromyscus Hooperi*. *Occ Pap Mus Texas Tech Univ* 97:1-40, 1985.
6. Modi WS. Chromosomes of Six Species of New World Microtine Rodents. *Mammalia* 49:357-363, 1985.
7. Modi WS. Karyotypic Differnetiation among Two Sibling Pairs of Microtine Rodents. *J Mammal* 159-166, 1986.
8. Wayne RJ, Modi WS and O'Brien SJ. Morphological Variability and Asymmetry in the Cheetah (*Acinonyx, Jubatus*), a Genetically Depauperate Species. *Evolution* 40:78-85, 1986.
9. Jaye M, Howk R, Burgess W, Ricca GA, Chiu I, Ravera M, O'Brien SJ, Modi WS, Maciag T and Drohan WN. Human Endothelial Cell Growth Factor; Cloning, Nucleotide Sequences Analysis, and Chromosome Localization. *Science* 233:541-545, 1986.
10. Hentze MW, Keim S, Papdopoulos P, O'Brien S, Modi W, Drysdale J, Leonard WJ, Harford JB and Klausner RD. Cloning, Characterization, Expression and Chromosomal Localization of a Human Ferritin Heavy Chain Gene. *Proc Natl Acad Sci (USA)* 83:7226-7230, 1986.
11. Brownell E, Kozak CA, Fowle JR III, Modi WS, Rice NR and O'Brien SJ. Comparative Genetic Mapping of Cellular rel Sequences in Man, Mouse and the Domestic Cat. *Am J Hum Genet*, 39:194-202, 1986.
12. Modi WS, Wayne RK and O'Brien SJ. Analysis of Fluctuating Asymmetry in Cheetahs. *Evolution* 41:227-228, 1987.
13. Epstein ND, Karlsson S, O'Brien SJ, Modi WS, Moulton A and Neinhuis AW. A New Moderately Repetitive DNA Sequence Family of Novel Organization. *Nucleic Acids Res* 15:2327-2341, 1987.
14. Modi WS. Phylogenetic Analyses of Chromosomal Banding Patterns Among the Nearctic Arvicolidae (Mammalia: Rodentia). *Syst Zool* 36:109-136, 1987.

15. Modi WS. C-banding Analyses and the Evolution of Heterochromatin Among Arvicolid Rodents. *J Mammal* 68:704-714, 1987.
16. Modi WS, Nash WG, Ferrari AC and O'Brien SJ. Cytogenetic Methodologies for Gene Mapping and Comparative Analyses in Mammalian Cell Culture Systems. *Gene Anal Tech* 4:75-85, 1987.
17. Kamholz J, Speilman R, Gogolin K, Modi W, O'Brien S and Lazzarini R. The Human Myelin Basic Protein Gene: Chromosomal Localization and RFLP Analysis. *Am J Hum Genet* 40:365-371, 1987.
18. Jaye M, Modi WS, Ricca GA, Mudd R, Chiu IM, O'Brien SJ, Drohan WN. Isolation of a cDNA Clone for the Human Laminin-B1 Chain and its Gene Localization. *Am J Hum Genet* 41:605-615, 1987.
19. Killen PD, Francomano CA, Yamada YM, Modi WS, O'Brien SJ. Partial Structure of the Human a2 (IV) Collagen Chain and Chromosomal Localization of the Gene (COL4A2). *Hum Genet* 77:318-324, 1987.
20. Anagnou NP, Antonarakis SE, O'Brien SJ, Modi WS, Nienhuis AW. Chromosomal Localization and Racial Distribution of the Polymorphic Human Dihydrofolate Reductase Pseudogene (DHFRP1). *Am J Hum Genet* 42:491-509, 1988.
21. Weissman AM, Hou D, Orloff DG, Modi WS, Seuanez H, O'Brien SJ, Klausner RD. Molecular Cloning and Chromosomal Localization of the Human T-cell Receptor Chain: Distinction from the Molecular CD3 Complex. *Proc Natl Acad Sci (USA)* 85:9709-9713, 1988.
22. Modi WS, Masuda A, Yamada M, Oppenheim JJ, Matsushima K, O'Brien SJ. Chromosomal Localization of the Human Interleukin 1 alpha (IL 1a) Gene. *Genomics* 2:310-314, 1988.
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24. Fanning TG, Modi WS, Wayne RK, O'Brien SJ. Evolution of Heterochromatin Associated Satellite DNA loci in Felids and Canids (Order Carnivora). *Cytogenet Cell Genet* 48:214-219, 1988.
25. Modi WS, Fanning TG, Wayne RK, O'Brien SJ. Chromosomal Localization of Satellite DNAs Among Twenty-two Species of Felids and Canids (Carnivora). *Cytogenet Cell Genet* 48:208-213, 1988.

26. Modi WS, Gamperl R. Chromosomal Banding Comparisons Among American and European Red-backed Mice, Genus Clethrionomys. *Z Saugetierk* 54:141-152, 1989.
27. Anagnou NP, Economou-Pachnis A, O'Brien SJ, Modi WS, Nienhuis AW, Tsichlis PN. Localization of the Human Homologue of the Moloney Leukemia Virus Integration 2 Locus (Mlvi-2) to Band p14 of Chromosome 5. *Genomics* 5:354-358, 1989.
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35. Modi WS, Pollock DD, Mock BA, Banner C, Renauld JC, Van Snick J. Regional Localization of the Human Glutaminase (GLS) and Interleukin - 9 (IL9) genes by in situ Hybridization. *Cytogenet Cell Genet* 57:114-116, 1991.
36. Napolitano M, Modi WS, Cevario SJ, Seuanez HN, Leonard WJ. The

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37. Hoehe MR, Caenazzo L, Martinez MM, Hsieh WT, Modi WS, Gershon ES, Bonner TI. Genetic and Physical Mapping of the Human Cannabinoid Receptor Gene to Chromosome 6q14-q15. *New Biologist* 3:880-885, 1991.
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54. Tsiorra PC, Karagogeos D, Theodorakis K, Michaelidis TM, Modi WS, Furley AJ, Jessell TM, Papamatheakis J. Isolation of the cDNA and Chromosomal Localization of the Gene Encoding the Human Axonal

- Glycoprotein TAG-1. *Genomics* 18:562-567, 1993.
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57. Modi WS, Gallagher DS, Womack JE. Molecular Organization and Chromosomal Localization of Six Highly Repeated DNA Families in the Bovine Genome. *Animal Biotechnology* 4:143-161, 1993.
58. Anagnou NP, Seuanez H, Modi W, O'Brien SJ, Papamatheakis J, Mohandas NK. Chromosomal Mapping of Two Members of the Human Glutamate Dehydrogenase (GLUD) Genes to 10q22.3-q23 and Xq22-q23. *Human Hered* 43:351-356, 1993.
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62. Lopez JV, Yuhki N, Masuda R, Modi W, O'Brien SJ. *Numt*, a Recent Transfer and Tandem Amplification of Mitochondrial DNA to the Nuclear Genome of the Domestic Cat. *J Mol Evol* 39:174-190, 1994.
63. Greenbaum IF, Gunn SJ, Smith SA, McAllister BF, Hale DW, Baker RJ, Engstrom MD, Hamilton MJ, Modi WS, Robbins LW, Rogers DS, Ward OG, Dawson WD, Elder FFB, Hsu TC, Lee MR, Pathak S, Stangl FB Jr. Cytogenetic Nomenclature of Deer Mice, *Peromyscus* (Rodentia): Revision and Review of the Standardized Karyotype. *Cytogenet Cell Genet* 66:181-195, 1994.

64. Erickson JD, Varoqui H, Schäfer M, K H, Modi W, Diebler MF, Weihe E, Rand J, Eiden LE, Bonner TI, Usdin TB. Functional Identification of a Vesicular Acetylcholine Transporter and its Expression from a “Cholinergic” Gene Locus. *J Biol Chem* 269:21929-21932, 1994.
65. Duh FM, Latif F, Weng Y, Geil L, Modi W, Stackhouse T, Matsumura F, Duan DR, Linehan Wm, Lerman MI, Gnarra JR. cDNA Cloning and Expression of the Human Homolog of the Sea Urchin *fascin* and *Drosophila* singed Genes which Encodes an Actin-bundling Protein. *DNA Cell Biol* 13:821-827, 1994.
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- Pantherine Lineage of Felidae. *Mol Biol Evol* 12:690-714, 1995.
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81. Modi WS. Phylogenetic History of LINE-1 in Arvicolid Rodents. *Mol Biol Evol* 13:633-641, 1996.
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83. Ivanov S, Modi WS. Molecular Composition of the Complex Sex Chromosome Heterochromatin in the Rodent *Microtus Chrotorrhinus*. *Cytogenet Cell Genet* 75:49-56, 1996.
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- Alpha Chain. *J Biol Chem* 271:29265-29270, 1996.
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86. Riedy MC, Dutra AS, Blake TB, Modi W, Lal BK, Davis J, Bosse A, O'Shea JJ, Johnston JA. Genomic Sequence, Organization, and Chromosomal Localization of Human JAK3. *Genomics* 37:57-61, 1996.
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99. Robinson TJ, Wittekindt O, Pasantes JJ, Modi WS, Schempp W, Morris-Rosendahl DJ. Stable Methylation Patterns in Interspecific Antelope Hybrids and the Characterization and Localization of a Satellite Fraction in the Alcelaphini and Hippotragini. *Chromosome Res* 8:635-643, 2000.
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