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January 7, 2008

CURRICULUM VITAE

Name: Stephen James O'Brien

Address: Laboratory of Genomic Diversity
National Cancer Institute
Building 560, Room 21-105
Frederick, Maryland 21702-1201
Telephone: 301/846-1296
FAX: 301/846-1686

Email: obrien@ncifcrf.gov
WEB <http://home.ncifcrf.gov/CCR/lgd/>

Date and Place of Birth: September 30, 1944; Rochester, New York

Citizenship: United States

Marital Status: Married, 1968; two children

Education:

1962- Graduated from Good Counsel High School, Wheaton, MD
1965- Summer School, Georgetown University, Washington, D.C.
1966- B.S.; St. Francis College, Loretto, PA; major: Biology; minor: Chemistry
1971- Ph.D.; Cornell University, Major Field: Genetics

Brief Chronology of Employment:

1997 – Date	Sylvio Conte Senior Biomedical Research Service Fellow-NIH
1986 – Date	Chief, Laboratory of Genomic Diversity, National Cancer Institute, NIH, Frederick, MD
1983 – 1985	Acting Chief, Laboratory of Viral Carcinogenesis, National Cancer Institute, NIH, Frederick, MD
1980 - Date	Chief, Section of Genetics, Laboratory of Viral Carcinogenesis, National Cancer Institute, NIH, Frederick, MD
1978 - 1980	Research Geneticist, Laboratory of Viral Carcinogenesis, National Cancer Institute, NIH, Frederick, MD. Chief - G.J. Todaro
1973 - 1978	Staff Fellow, Laboratory of Viral Carcinogenesis, National Cancer Institute, NIH, Bethesda, MD. Research area - cell genetics, oncogenetics, tumor virology and immunology
1972 - 1973	NIH Postdoctoral Fellow, National Cancer Institute, NIH, Bethesda, MD. Supervisor, Charles W. Boone; research area - somatic cell genetics and development
1971 - 1972	Postdoctoral Fellow, genetics-biochemistry, Gerontology Research Center, Baltimore; Supervisor, Bertram Sacktor; research area - genetic control of bioenergetics.

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Adjunct University Appointments

1974 - Date	Adjunct Professor of Genetics, George Washington University
1979 - Date	Adjunct Graduate Advisor, Dept. of Biology, American University
1982 - Date	Adjunct Professor, Dept. of Zoology, University of Maryland
1982 - Date	Adjunct Professor, Dept. of Biology, Johns Hopkins University
1982 - Date	Adjunct Graduate Advisor, Dept. of Biology, Hood College
1994 - Date	Adjunct Professor, Dept. of Pathology, Colorado State University
1994 - Date	Adjunct Professor,, Dept. of Biology, George Mason University
1996 - Date	Adjunct Professor, Dept. of Biology, Peking University
2004 -Date	Adjunct Professor, Harvard School of Public Health
1996 - Date	Director, AGA/ Smithsonian NOAHS Center Short Course: Recent Advances in Conservation Genetics, CRC - Front Royal, VA

Graduate Students Supervised:

M.S. Degrees

M. Catherine Rice

M.S. George Washington University, 1979

Thesis: An examination of the extent of genetic variation in laboratory outbred mice and wild mouse populations.

Cheryl A. Winkler

M.S. University of Maryland, 1981

Thesis: Preliminary characterization of the major histocompatibility complex in *Felis catus*.

Andrea Newman

M.S. Hood College, 1983

Thesis: Estimating the extent of biochemical genetic variation in eight species of the Felidae.

Eric J. Berman

M.S. George Washington University, 1984

Thesis: Assignment of four new genes in the domestic cat by somatic cell hybridization.

Dianne N. Janczewski

M.S. George Mason University, 1989

Thesis: Estimate of genetic distance of orangutan (*Pongo pygmaeus*) subspecies based on isozyme and two-dimensional electrophoresis.

Valerie Beason

M.S. Hood College, 2004

Thesis: Genetic variation, subspecies identification and conservation of the clouded leopard (*Neofelis nebulosa*)

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Ph.D. Degrees Completed

Roger H. Reeves

Ph.D. University of Maryland, 1983

Thesis: Characterization of a family of endogenous feline retroviral sequences

Cheryl A. Winkler

Ph.D. University of Maryland, 1986

Thesis: The serological definition of the feline major histocompatibility complex, *FLA*, in the domestic cat, *Felis catus*.

Dennis A. Gilbert

Ph.D. The Johns Hopkins University, 1990

Thesis: Application of DNA fingerprinting to measure the genetic structure of populations.

Dianne N. Janczewski

University of Maryland, 1992

Subject: Phylogenetic radiation of the great cats, *Panthera*, as estimated by DNA sequence analysis of mitochondrial genes.

Sriyanie Miththapala

University of Florida, 1993

Subject: Molecular definition of subspecies differentiation in the Old World leopard, *Panthera pardus*.

Jose Lopez

George Mason University, 1995

Subject: Molecular organization of an historic transposition and amplification of mitochondrial DNA segments to nuclear genes in the Felidae.

Melanie Culver

University of Maryland, 1998

Subject: Molecular genetic variation, population structure and natural history of free ranging pumas, *Puma concolor*.

Olga Uphyrkina

University of Novosibirsk, 2002

Subject: Molecular genetic population structure of the leopard, *Panthera pardus*.

Eduardo Eizirik

University of Maryland, 2002

Subject: Molecular evolution of melanism in the Felidae (Mammalia, Carnivora)

Shu Jin Luo

University of Minnesota, 2006

Subject: Comparative Phylogeography of sympatric wild cats: Implications for biogeography and conservation in Asian biodiversity hotspots

Ann Schmidt-Kuntzel

George Washington University, 2007

Subject Genetic origins of coat color in *Felis silvestris catus*.

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Meredith Brown
Michigan State University, 2007
Subject: Molecular genetic characterization of emerging viral infections and determinants of pathogenicity in free-ranging felid populations

Ph.D. Degrees Pending

Carlos Driscoll
Oxford University
Subject: On the origins of cat domestication in the Wildcat, Felis silvestris

Editorial Appointments:

1975-1978	Editor, ISOZYME BULLETIN
1980-Date	Editor, GENETIC MAPS, Cold Spring Harbor Publications
1987-1991	Associate Editor - Chief Subject Editor - comparative gene mapping, GENOMICS, Academic Press.
1987-Date	Chief Editor, Journal of Heredity, American Genetics Association
1990-Date	Associate Editor, MAMMALIAN GENOME
	Associate Editor, MOLECULAR PHYLOGENETICS AND EVOLUTION
1993	Guest Editor, CURRENT BIOLOGY, Molecular Evolution Issue
1994	COSMOS Journal Advisory Board
1995	Guest Editor, CURRENT BIOLOGY, Genomes and Evolution Issue

Boards of Trustees:

American Type Culture Collection
Cheetah Conservation Fund
American Genetic Association
Bioethics - Johns Hopkins University
Family Investigation of Nephropathy and Diabetes (FIND) study
NOAHS Center, Smithsonian Institution

Societies:

1966 - Date	American Association for the Advancement of Science
1966 - Date	Genetics Society of America
1970 - Date	American Society of Naturalists
1976 - Date	Tissue Culture Association
1976 - Date	American Genetics Association
1979 - Date	New York Academy of Science
1984 - Date	American Association of Zoological Parks and Aquariums

Research Interests:

Human genetics, Comparative Genomics, Genetic Epidemiology, Molecular Evolution, HIV, FIV, AIDS, Virology, Bio-informatics , Forensic genetics, Conservation.

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Honors, Administrative Appointments and Other Special Recognitions:

1966-1971	NIH genetics traineeship
1971-1973	NIH postdoctoral fellowship
1972-1978	Co-Chairman and founder, Mid-Atlantic Drosophila Society
1975-1976	Elected council representative, NCI Assembly of Scientists
1977-1978	President, NCI Assembly of Scientists
1979-Date	Elected New York Academy of Science
1979-Date	Member, International Committee on Comparative Gene Mapping
1982-Date	Appointed Research Fellow of Smithsonian Institution , Washington, D.C.
1983-Date	Elected Board of Trustees, American Type Culture Association, Rockville, MD
1984-Date	Appointed, Executive Board, American Type Culture Collection, Rockville, MD
1984-Date	Elected Board of Directors, American Genetics Association (AGA)
1985	National Geographic Society Research Award (for study of genetics and reproduction of East African cheetah)
1985-Date	Appointed, Chairman, Long Range Planning Committee, AGA
1985-Date	Founder and Co-Director, NOAHS (New Opportunities in Animal Health Sciences) Center for Wildlife Sciences , Smithsonian Institution
1985-Date	Member, Cat Specialist Group , International Union for Conservation of Nature, I.U.C.N., Geneva
1986	Recipient World Wildlife Fund Research Award (for study of genetic structure of relict populations of giant pandas)
1986-Date	Member, Captive Breeding Specialist Group , Species Survival Commission, I.U.C.N., Geneva
1986-Date	Advisor, Special Survival Plan-Cheetah, American Zoological Association
1987-Date	Secretary-Treasurer, Board of Trustees, American Type Culture Collection
1987-Date	Chairman, International Committee on Comparative Gene Mapping
1987-Date	Elected member Cosmos Club , Washington, D.C.
1988	Explorer's Club Annual Dinner Principal Lecture Award in Commemoration of the 100th Anniversary of the National Geographic Society .
1988-Date	Elected Fellow Explorer's Club , New York, N.Y.
1994-Date	Elected Fellow of the American Academy of Arts and Sciences .
1994	Distinguished Alumnus in Natural Sciences, St. Francis College, Loretto, PA
1997	Visiting Fellow, Merton College , Oxford University, Oxford
1998-Date	Elected Fellow, American Association for the Advancement of Science
1998	Nominated Andrew Dixon White Professor-at-Large , Cornell University
2006	Chairman Board of Trustees Cheetah Conservation Fund
2006	Institution of the Stephen J.O'Brien Award for Outstanding Paper Published by American Genetic Association

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BOOKS

O'Brien, S.J.: **Tears of the Cheetah and Other Tales from the Genetic Frontier**, St. Martin's Press, New York, 2003, pp 273.

EDITED VOLUMES

1. O'Brien, S.J. (Ed.): Isozyme Bulletin, 1976, Vol. 9, pp. 1-79.
2. O'Brien, S.J. (Ed.): Isozyme Bulletin, 1977, Vol. 10, pp. 1-90.
3. O'Brien, S.J. (Ed.): Isozyme Bulletin, 1978, Vol. 11, pp. 1-68.
4. O'Brien, S.J. (Ed.): Genetic Maps, 1980, Vol. 1, pp. 1-28
5. O'Brien, S.J. (Ed.): Genetic Maps, 1982, Vol. 2, pp. 1-406.
6. O'Brien, S.J. (Ed.): Genetic Maps, 1984. Cold Spring Harbor Laboratory Press, New York, Vol. 3, 1984, 584 pp.
7. O'Brien, S.J. (Ed.): Genetic Maps, 1987. Cold Spring Harbor Laboratory Press, New York, Vol. 4, 842 pp.
8. Clegg, M. T., and O'Brien, S.J. (Eds.): Molecular Evolution, 1990, Vol. 122, Proceedings of a UCLA Colloquium, UCLA Symposia on Molecular and Cellular Biology, Lake Tahoe, CA, Wiley-Liss, New York, N.Y., pp. 1-322.
9. O'Brien, S.J. (Ed.): Genetic Maps: Locus Maps of Complex Genomes. Fifth Edition. 1990. Cold Spring Harbor Laboratory Press, New York, Unabridged 1104 pp.
10. O'Brien, S.J. (Ed.): Genetic Maps: Locus Maps of Complex Genomes. Fifth Edition. 1990. Cold Spring Harbor Laboratory Press, New York. Published in six volumes:

Book 1	Viruses	186 pp
Book 2	Bacteria, Protozoa, and Algae	138 pp
Book 3	Lower Eukaryotes	206 pp
Book 4	Nonhuman Vertebrates	180 pp
Book 5	Human Maps	262 pp
Book 6	Plant	152 pp
11. O'Brien, S.J. (Ed.): Genetic Maps: Locus Maps of Complex Genomes. Sixth Edition. 1993. Cold Spring Harbor Laboratory Press, New York. Unabridged 1617 pp.
12. O'Brien, S.J. (Ed.): Genetic Maps: Locus Maps of Complex Genomes. Sixth Edition. 1993. Cold Harbor Laboratory Press, New York. Published in six volumes:

Book 1	Viruses	205 pp
Book 2	Bacteria, Protozoa, and Algae	181 pp
Book 3	Lower Eukaryotes	318 pp
Book 4	Nonhuman Vertebrates	342 pp
Book 5	Human Maps	310 pp
Book 6	Plants	261 pp

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13. O'Brien, S.J. and Clegg, M. T. (Eds.): Genes and Genomes. *Curr. Opin. Genet. Devel.* 3: 835-998, 1993.
14. Hartl, D. L., Kafatos, F., and O'Brien, S.J. (Eds.): Genomes and Evolution. *Curr. Opin. Genet. Devel.* 5: 705-847, 1995.
15. O'Brien, S.J. and Fraser, C. M. Genomes and Evolution. *Curr. Opin. Genet. Devel.* 15: 569-665, 2005
16. O'Brien, S.J., Menninger, J. C and Nash, W. G.: **An Atlas of Mammalian Genomes.** John Wiley & Sons Publishers, New York, NY, 2006.

SCIENTIFIC ARTICLES

1. O'Brien, S.J. and MacIntyre, R. J.: An analysis of gene-enzyme variability in natural populations of *Drosophila melanogaster* and *D. simulans*. *Am. Nat.* 103: 97-113, 1969.
2. O'Brien, S.J. and MacIntyre, R. J.: Empirical demonstration of a transient linkage disequilibrium in *Drosophila*. *Nature* 230: 335-336, 1971.
3. O'Brien, S.J. and MacIntyre, R. J.: A biochemical genetic map of the *Drosophila* genome. *Drosophila Info. Serv.* 46: 89-93, 1971.
4. O'Brien, S.J. and MacIntyre, R. J.: α -glycerophosphate cycle in *Drosophila melanogaster*. I. Biochemical and developmental aspects. *Biochem. Genet.* 7: 141-161, 1972.
5. O'Brien, S.J. and MacIntyre, R. J.: The α -glycerophosphate cycle in *D. melanogaster*. II. Genetic aspects. *Genetics* 71: 127-138, 1972.
6. O'Brien, S.J. and MacIntyre, R. J.: The α -glycerophosphate cycle in *D. melanogaster*. III. The effect of "null" mutations at α -Gphd-1 locus on viability. *Am. Nat.* 106: 967-971, 1972.
7. O'Brien, S.J.: On estimating functional gene number in eukaryotes. *Nature New Biol.* 242: 52-54, 1973.
8. O'Brien, S.J.: Comparative analysis of malate dehydrogenase of *Drosophila melanogaster*. *Biochem. Genet.* 10: 191-205, 1973.
9. O'Brien, S.J. and Gethmann, R. C.: Segmental aneuploidy as a probe for structural genes in *Drosophila*: Mitochondrial membrane enzymes. *Genetics* 75: 155-167, 1973.
10. O'Brien, S.J. and Shimada, Y.: The α -glycerophosphate cycle in *Drosophila melanogaster*. Metabolic, ultrastructural, and adaptive consequences of α -Gphd-1 "null" mutations. *J. Cell Biol.* 63: 864-882, 1974.
11. O'Brien, S.J., Boone, C. W., Simonson, J. M., and Austin, F.: The paired label assay for cell surface antigens. *Tissue Cult. Assoc. Manual* 2: 423-427, 1975.

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12. O'Brien, S.J.: Biochemical mutants of *Drosophila melanogaster*. In: King, R. C. (Ed.) Handbook of Genetics, Vol. III. New York, Plenum, 1975, pp. 669-678.
13. O'Brien, S.J., Kleiner, G., Kern, J., and Reynolds, J.: Zymogram phenotypes of widely used cell lines from various animal species. Isozyme Bull. 9: 20-27, 1976.
14. O'Brien, S.J.: *Bvr-1*, a restriction locus of a type C RNA virus in the feline cellular genome: Identification, location, and phenotypic characterization in cat x mouse somatic cell hybrids. Proc. Natl. Acad. Sci. USA 73: 4618-4622, 1976.
15. O'Brien, S.J., Simonson, J. M., and Boone, C. W.: Expression of virus structural proteins on murine cell surfaces in association with the production of murine leukaemia virus. J. Gen. Virol. 33: 355-360, 1976.
16. O'Brien, S.J.: Isozymes and allozymes as genetic footprints of cultured cells. In Petricianni, J. (Ed.): Proceedings of the FDA Conference on Cell Substrates for Vaccine Production, 1976, pp. 46n-59n.
17. MacIntyre, R. J. and O'Brien, S.J.: Interacting gene enzyme systems in *Drosophila*. Ann. Rev. Genet. 10: 281-318, 1976.
18. O'Brien, S.J., Kleiner, G., Olson, R., and Shannon, J.: Enzyme polymorphisms as genetic signatures in human cell cultures. Science 195: 1345-1348, 1977.
19. O'Brien, S.J. and Boone, C. W.: Expression of feline leukemia virus antigens on cat lymphoma cells: Kinetics of biosynthesis. J. Gen. Virol. 35: 511-523, 1977.
20. Lemons, R. S., O'Brien, S.J., and Sherr, C.J.: A new genetic locus, *Bevi*, on human chromosome 6 which controls the replication of baboon type C virus in human cells. Cell 12:251-262, 1977.
21. O'Brien, S.J. and MacIntyre, R. J.: Genetics and biochemistry of enzymes and specific proteins of *Drosophila*. In Wright, T. R. F. and Ashburner, M. (Eds.): Genetics and Biology of Drosophila, Vol IIa. New York, Academic, 1977, pp. 395-551.
22. O'Brien, S.J., Simonson, J. M., and Davis, S.: Deposition of retrovirus associated antigens (p30 and gp70) on cell membranes of feline and murine leukemia virus infected cells. J. Gen. Virol. 38: 483-496, 1978.
23. O'Brien, S.J. and Simonson, J. M.: *Bvr-1*: A restriction locus of a type C RNA virus in the feline cellular genome: Pleiotropic restriction of endogenous BALB virus in cat X mouse somatic cell hybrids. J. Exp. Med. 147: 219-232, 1978.
24. Lemons, R. S., O'Brien, S.J., and Sherr, C. J.: The *Bevi* locus (chromosome 6) encodes a post-penetrational cellular function required for baboon endogenous virus replication in human cells. Cytogenet. Cell Genet. 22: 255-259, 1978.
25. Lemons, R. S., Nash, W. G., O'Brien, S.J., Benveniste, R. E., and Sherr, C. J.: A gene (*Bevi*) on human chromosome 6 is an integration site for baboon type C DNA provirus in human cells. Cell 14: 995-1005, 1978.

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26. Engel, L. W., Young, N. A., Tralka, T. S., Lippman, M. E., O'Brien, S.J., and Joyce, M. J.: Establishment and characterization of three new continuous cell lines derived from human breast carcinomas. Cancer Res. 38:3352-3364, 1978.
27. Kucera, L. S., Simonson, J. M., O'Brien, S.J., and Coon, H.: On the Lucke tumor origin of LT-1 cells. J. Natl. Cancer Inst. 60: 493-495, 1978.
28. O'Brien, S.J. and Rice, M. C.: Genetic aspects of carcinogenesis and carcinogen testing in outbred Swiss mice. J. Toxicol. Environ. Health 5:69-81, 1979.
29. Noguchi, P., Wallace, R., Johnson, J., Earley, E. M., O'Brien, S.J., Ferrone, S., Pellegrino, M. A., Milstein, J., Needy, C., Browne, W., and Petriceianni, J.: Characterization of the WIDR: A human colon carcinoma cell line. In Vitro 15: 401-408, 1979.
30. Surti, U., Szulman, A. E., and O'Brien, S.J.: Complete (classic) hydatidiform mole with 46,XY karyotype of paternal origin. Hum. Genet. 51: 153-155, 1979.
31. O'Brien, S.J. and Rice, M. C.: Specific genetic loci as targets of carcinogens and tumor promoters in mammals. J. Environ. Pathol. Toxicol. 2: 1055-1068, 1979.
32. Gail, M. H., Weiss, G. H., Mante, N., and O'Brien, S.J.: A solution to the generalized birthday problem with application to allozyme screenings for cell culture contamination. J. Appl. Prob. 16:242-251, 1979.
33. Gardner, M. B., Rasheed, S., Pal, B. K., Estes, J. D., and O'Brien, S.J.: *Akvr-1*, a dominant MuLV restriction gene segregates in leukemia-prone wild mice. In Yohn, D. S., Lapin, B. A., and Blakeslee, J. R. (Eds.): Comparative Leukemia Research. New York, Elsevier/North Holland, 1979, pp. 149-150.
34. Pearson, P. L., Roderick, T. H., Davisson, M. T., Garver, J. J., Warburton, D., Lalley, P. A., and O'Brien, S.J.: Report of the committee on comparative gene mapping. Cytogenet. Cell Genet. 25: 82-95, 1979.
35. Rice, M. C. and O'Brien, S.J.: Genetic variance of laboratory outbred Swiss mice. Nature 283: 157-161, 1980.
36. Gardner, M. B., Rasheed, S., Pal, B. K., Estes, J. D., and O'Brien, S.J.: *Akvr-1*, a dominant murine leukemia virus restriction gene is polymorphic in leukemia-prone wild mice. Proc. Natl. Acad. Sci. USA 77:531-535, 1980.
37. O'Brien, S.J., Shannon, J. E., and Gail, M. H.: A molecular approach to the identification and individualization of human and animal cells in culture: Isozyme and allozyme genetic signatures. In Vitro 16: 119-135, 1980.
38. Rice, M. C., Gardner, M. B., and O'Brien, S.J.: Genetic diversity in leukemia-prone feral house mice infected with murine leukemia virus. Biochem. Genet. 8: 915-928, 1980.
39. Nelson-Rees, W. A., Hunter, L., Darlington, G. J., and O'Brien, S.J.: Characteristics of HeLa strains: Permanent vs. variable features. Cytogenet. Cell Genet. 27: 216-231, 1980.
40. O'Brien, S.J.: The extent and character of biochemical genetic variation in the domestic cat (*Felis catus*). J. Hered. 71: 2-8, 1980.

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41. O'Brien, S.J., Gail, M. H., and Levin, D. L.: Correlative genetic variation in natural populations of cats, mice and men. Nature 288: 580-583, 1980.
42. Gardner, M. B., Rasheed, S., Pal, B. K., Estes, J. D., Berman, E., and O'Brien, S.J.: Genetic analysis of *Akvr-1* relative to other murine retrovirus restriction loci. In Baltimore, D., Huang, A. S., and Fox, C. F. (Eds.): Proceedings of ICN-UCLA Symposium on Animal Virology. 1980, pp. 223-232.
43. O'Brien, S.J., Nash, W. G., Simonson, J. M., and Berman, E. J.: Establishment of a biochemical genetic map of the domestic cat (*Felis catus*). In Hardy, W. D., Essex, M., and McClelland, A. J. (Eds.): Feline Leukemia Virus. New York, Elsevier/North Holland, 1980, pp. 401-412.
44. O'Brien, S.J. and Nash, W. G.: Somatic cell genetic analysis of enzyme structural genes of the domestic cat (*Felis catus*). Carnivore Genet. 4: 81-88, 1980.
45. Harris, N. L., Gang, D. L., Quay, S. C., Poppema, S., Nelson-Rees, W. A., and O'Brien, S.J.: Contamination of Hodgkin's disease cell cultures. Nature 289: 228-230, 1981.
46. O'Brien, S.J., Simonson, J. M., Grabowski, M. W., and Barile, M. F.: Analysis of multiple isoenzyme expression among twenty-two species of Mycoplasma and Acholeplasma. J. Bacteriol. 146: 222-232, 1981.
47. O'Brien, S.J., Nash, W. G., Benveniste, R. E., Wildt, D. E., and Bush, M. E.: Palaeontological and molecular views of panda phylogeny. Nature 319: 428, 1986.
48. O'Brien, S.J. and Nash, W. G.: Genetic mapping in mammals: Chromosome map of the domestic cat. Science 216: 257-265, 1982.
49. O'Brien, S.J.: Plausible alternatives to bottlenecks to explain reduced genetic diversity. Trends Ecol. Evol. 4: 176-178, 1989.
50. Anagnou, N. P., Antonarakis, S. E., O'Brien, S.J., and Nienhuis, A. W.: A novel form of human polymorphism involving the hDHFR-psi 1 pseudogene identifies three RFLPs. Nucleic Acids Res. 15: 5501, 1987.
51. O'Brien, S.J., Moore, J. L., Martin, M. A., and Womack, J. E.: Evidence for the horizontal acquisition of murine AKR virogenes by recent horizontal infection of the germ line. J. Exp. Med. 155: 1120-1123, 1982.
52. O'Brien, S.J. and Barile, M. F.: Isozyme resolution in mycoplasmas. In Razin, S. and Tully, J. G. (Eds.): Methods of Mycoplasmology, Vol. I. New York, Academic, 1982, pp. 391-396.
53. O'Brien, S.J., Nash, W. G., Winkler, C. A., and Reeves, R. H.: Genetic analysis in the domestic cat as an animal model for inborn errors, cancer and evolution. Prog. Clin. Biol. Res. 94: 67-90, 1982.
54. O'Brien, S.J., Simonson, J. M., and Eichelberger, M. A.: Genetic analysis of hybrid cells using isozyme markers as monitors of chromosome segregation. In Shay, J. W. (Ed.): Techniques in Somatic Cell Genetics. New York, Plenum, 1982, pp. 513-524.

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55. Pearson, P. L., Roderick, T. H., Davisson, M. T., Lalley, P. A., and O'Brien, S.J.: Report of the committee on comparative mapping. Oslo Conference (1981): Sixth International Workshop on Human Gene Mapping. Cytogenet. Cell Genet. 32: 208-220, 1982.
56. Nash, W. G. and O'Brien, S.J.: Conserved regions of homologous G-banded chromosomes between orders in mammalian evolution: Carnivores and primates. Proc. Natl. Acad. Sci. USA 79: 6631-6635, 1982.
57. O'Brien, S.J. and Johnson, P. A.: An abridged human gene map including oncogenes, neoplasia-related loci and biochemical loci whose homologous counterparts have been assigned in other mammalian species. In O'Brien, S.J. (Ed.): Genetic Maps, Vol. 4. New York, Cold Spring Harbor Laboratory, 1987, pp. 598-604.
58. O'Brien, S.J.: Genetic map of the domestic cat, *Felis catus*. In O'Brien, S.J. (Ed.): Genetic Maps, Vol. 4. New York, Cold Spring Harbor Laboratory, 1987, pp. 482-485.
59. O'Brien, S.J., Nash, W. G., Winkler, C. A., Simonson, J. M., and Lemons, R. S.: Control of integration of baboon endogenous virus in human chromosomes by the *BEVI* locus. In Yohn, D. S. and Blakeslee, R. J. (Eds.): Comparative Leukemia Research. New York, Elsevier/North Holland, 1981, pp. 399-400.
60. O'Brien, S.J., Wildt, D. E., Simonson, J. M., Brand, D. J., Ebedes, H., van Dyk, A., Meltzer, D., Simmons, L. G., and Bush, M.: On the extent of genetic variation of the African cheetah, *Acinonyx jubatus*. In Fowler, M. (Ed.): Proceedings of the American Association of Zoo Veterinarians, 1981, pp. 74-77.
61. Seibert, K., Shafie, S. M., Tricke, T. J., Whang-Peng, J. J., O'Brien, S.J., Toney, J. H., Huff, K. K., and Lippman, M. E.: Clonal variation of MCF-7 breast cancer cells *in vivo* and in athymic nude mice. Cancer Res. 43: 2223-2239, 1983.
62. Surti, U., Szulman, A. E., and O'Brien, S.J.: Dispermic origin and clinical outcome of three complete hydatidiform moles with 46,XY karyotype. J. Obstet. Gynecol. 144: 84-87, 1982.
63. O'Brien, S.J., Wildt, D. E., Goldman, D., Merril, C. R., and Bush, M.: The cheetah is depauperate in genetic variation. Science 221: 459-462, 1983.
64. Wildt, D. E., Bush, M., Howard, J. G., O'Brien, S.J., Meltzer, D., van Dyk, A., Ebedes, H., and Brand, D. J.: Unique seminal quality in the South African cheetah and a comparative evaluation in the domestic cat. Biol. Reprod. 29:1019-1025, 1983.
65. O'Brien, S.J., Simonson, J. M., Razine, S., and Barile, M. F.: On the distribution and characteristics of isozyme expression in Mycoplasma, Acholeplasma, and Ureaplasma species. Yale J. Biol. Med. 56: 701-708, 1983.
66. O'Brien, S.J., Bonner, T. I., Cohen, M., O'Connell, C., and Nash, W. G.: Mapping of an endogenous retroviral sequence to human chromosome 18. Nature 303: 74-77, 1983.
67. O'Brien, S.J., Nash, W. G., Goodwin, J. L., Lowy, D. R., and Chang, E. H.: Dispersion of the *ras* family of transforming genes to four different chromosomes in man. Nature 302:839-842, 1983.

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