CURRICULUM VITAE

Stephen P. Daiger, Ph.D., Professor

February 2007

BUSINESS ADDRESS

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EDUCATION

- A.B., June 1965, Johns Hopkins University, Baltimore, Maryland. Major: experimental psychology. Special student, Johns Hopkins University, 1969.

- U.S. Army Medical Field Service School, U.S. Army Chemical School, 1966, 1968.

- Ph.D., September 1971 - April 1976, Department of Biological Sciences, Stanford University, Stanford, California.

  Research Specialization: Human population genetics/biochemical genetics.
  Thesis Advisor: L. Luca Cavalli-Sforza, M.D.
  Faculty Advisor: Marcus W. Feldman, Ph.D.

- Postdoctoral Fellow in Medical Genetics, University of Washington, Seattle, Washington, January 1976 - August 1978. Sponsor: Arno G. Motulsky, M.D.

EMPLOYMENT

- Officer, U.S. Army Medical Service Corps, Ft. Belvoir, Virginia, 1966 - 1968.

- Staff Assistant, California Medical Association, San Francisco, California, 1969 - 1971.

- Research Assistant Professor, Department of Pediatrics, Baylor College of Medicine, September 1978 - September 1981.

- **Professor with Tenure** (1988); Research Assistant Professor (1981) and Research Associate Professor (1983); Human Genetics Center, School of Public Health (previously Graduate School of Biomedical Sciences), The Univ. of Texas Health Science Center, Houston, TX, September 1981 - present.

ADJUNCT and JOINT FACULTY POSITIONS

- **Professor**, Department of Ophthalmology and Visual Science, The Univ. of Texas Health Science Center at Houston, 1994 - present.

- Member of the Graduate Faculty, Graduate School of Biomedical Sciences, UT-Houston, 1981 - present.

- Adjunct Professor (1989) and Adjunct Assistant Professor (1983), Department of Pediatrics, Baylor College of Medicine, Houston, Texas, May 1983 - present.

- Adjunct Professor (1989) and Adjunct Faculty Member (1983), School of Allied Health Sciences, The Univ. of Texas Health Science Center at Houston, Sept. 1983 - present.

- Special Faculty Member, Graduate School of Biomedical Sciences, The Univ. of Texas Health Science Center at Houston, February 1979 - September 1981.

- Adjunct Professor (1989) and Adjunct Assistant Professor (1986), Institute for Molecular Genetics, Baylor College of Medicine, Houston, Texas, June 1986 - August 1992.

RECENT TEACHING EXPERIENCE

- Course Instructor, Human Population Genetics, Institute for Molecular Genetics, Baylor College of Medicine, Fall Quarter 1987 - 1990.

- Lecturer, Medical Genetics, Baylor College of Medicine, 1978 - 1990; Lecturer, Medical Genetics, UT-Houston Medical School, 1982 - present; Lecturer, Population Genetics, UT-Houston School of Allied Health Sciences, 1982 - 2000; Lecturer, DNA Fingerprinting, UT-Houston, 1992 - 2004.

- Course Instructor, Intro. to Biological Sciences, School of Public Health, 1997 - 2002.

- Course Instructor, Human DNA Variation, Graduate School of Biomedical Sciences and School of Public Health, UT-Houston, 30 hours, Spring Semester, 1984 - present.

ACADEMIC AWARDS and HONORS

- California State Fellowship, 1971-1973.
- Achievement Awards for College Scientists (ARCS), Inc., 1973-1974.
- NIH Postdoctoral Fellowship, June 1975-1977.
- Outstanding Faculty Award, Graduate School of Biomedical Sciences, UT-Houston, 1990.
- Dean's Excellence Award, 1994-2002; Marshal, Honors Convocation, UT-Houston, 1994.
- Excellence in Scholarship Incentive Award, School of Public Health, FY 2001 - FY 2003
- Dr. Thomas Stull Matney Professor of Environmental and Genetic Sciences, 2004

PROFESSIONAL MEMBERSHIPS

- American Association for the Advancement of Science since 1965.
- American Society of Human Genetics since 1973.
- Texas Genetics Society since 1978.
- Sigma Xi Scientific Research Society, since 1978.
- Association for Research in Ophthalmology and Vision (ARVO), since 1993.

OTHER PROFESSIONAL ACTIVITIES

- The Univ. of Texas Health Science Center at Houston:

  Member, Institutional Biosafety Committee and DNA Subcommittee, 1982 - 1997;

  Member, PEW Scholar's Selection Committee, September 1986;

  Steering Committee Member, Medical Genetics Training Program, 1986 - 2004;

  Chairman, Institutional Effectiveness Committee, 1988 - 1991;

  Member, Annual Campaign Committee, 1989 - 1990;

  Chairman, Awards Standing Committee, 1992 - 1996;

  Member, Intellectual Property Advisory Committee, 1993 - present;

  Member, Campus Master Plan Focus Group and Brainstorming Sessions, 1993;

  Member, Training Program Executive Committee, Houston Area Vision Training Program (funded NEI-NIH Training Program), 1994 - present;

  Member, Neurologic Research Center, UT-Houston, 1995 - present;

  Member, Graduate School Evaluation Committee, 1996 - 1997;

  Member, Internal Scientific Advisory Committee, Specialized Center of Research in Scleroderma (SCORE), Department of Internal Medicine, 1997 - present;

  Member, Scientific Review Committee, 1999-present;

  Member, Research Conflicts of Interest Committee, 2002-present.

- Graduate School of Biomedical Sciences, UTHCS-Houston:

  Member and Chairman, Academic Standards Committee, 1983 - 1987;

  Chairman, Faculty Search Advisory Committee, 1984;

  Member, Genetics Program Committee, 1985 - 1989;

  Member, Faculty Development Leave Committee, 1989 - present;

  Member, GSBS Planning Committee, 2000 - present;

  President Elect and President, Graduate Faculty, 2004 - 2007;

  Member, Endowed Professorship Nominating Committee, 2006;

  Member, Schissler Scholarship Review Committee, 2006.

(**OTHER PROFESSIONAL ACTIVITIES -** continued)

- School of Public Health, UT-Houston:

  Chair (2002) and Member, Financial Aid Committee, 1996 - present;

  Convener, Biological Sciences Discipline, 1998 - 2005;

  Chair, Faculty Search Committee, Human Genetics Center, 2000 - 2005.

- National Institutes of Health:

  Ad Hoc Member, Mammalian Genetics Study Section, 1982;

  Ad Hoc Member, Visual Sciences C, 1998-1999;

  Site Visit Team Member and Special Study Section Member: July 1983; May, August, September 1984; February, September 1985; July 1986; March 1989; January, March 1990; July, November (**Chair**) 1991; October 1992; June 1993; February 1995;

  Member, Special Evaluation Panel, National Eye Institute, 1992 - present.

- Texas Genetics Society:

  Member, Board of Directors, 1984-1988 and 1990-1994;

  Chairman, Program Committee, 13th Annual Meeting, March 1986, Houston, TX;

  Chairman, Nominating Committee, 1988-1989; 1995-1996;

  President Elect and President, 1990-1992;

  Member, Nominating Committee, 1999 - 2002.

- Foundation Fighting Blindness (National Retinitis Pigmentosa Foundation) :

  Workshop Chairman, *Future Directions in Linkage of DNA Polymorphisms to Retinitis Pigmentosa*, March 5, 1984, Houston, Texas;

  Invited Speaker, Annual Meeting of Board of Directors and Scientific Advisory Board, April 1984, April 1987, May 1998, Jan. 2002; Jan. 2004; Jan. 2005;

  Site Visit Team Member, March 1987, May 1988; Grant Review 1990, 1991;

  Retinal Donor Committee, July 1996;

  Keynote Speaker, "Genetics Research: The Cornerstone", Visions 2000, Orlando;

  Chair, Genetics Committee, and Member, Scientific Advisory Board, 1998 - present;

- Houston-Gulf Coast Chapter, National Retinitis Pigmentosa Foundation, Member, Scientific Advisory Board, 1984-present.

(**OTHER PROFESSIONAL ACTIVITIES -** continued)

- MD Anderson Hospital and Tumor Institute, Houston, Texas, Program Committee Member and Instructor, Workshop in Molecular Genetics, 40th Annual Symposium on Fundamental Cancer Research, November 1987.

- Texas Neurofibromatosis Foundation, Member, Medical Advisory Board, 1984-1991.

- Southwest Foundation for Biomedical Research, Member, External Review Committee, 1988-1994.

- Howard Hughes Medical Institute, Site Visit Team Member, Human Gene Mapping Library, Feb. 1989.

- Testimony as an Expert Witness: Texas v. Fuller, February, March 1989; Texas v. Trimboli, April 1989; Texas v. Clarke, August 1989; California v. Mello, September 1989; California v. Wilds, October 1989; New Mexico v. Andrews, January 1990; United States v. Yee, July 1990; South Dakota v. Young, December 1990; United States v. Porter, January 1991; New Hampshire v. VandeBogart, February, July 1991; Washington v. Gentry, March 1991; Texas vs. Lewis, April 1992, April 1994; Washington v. Selwyn, July 1995; Texas v. Rameriz-Resendez, April 2000; Texas v. Garcia, January 2002.

- The Univ. of Texas Human Genome Program, Member, Steering Committee, 1989 - 1998.

- National Tuberous Sclerosis Ass'n, Member, Professional Advisory Board, 1990 - present.

- Federal Bureau of Investigation, Member, Working Group on Statistical Standards for DNA Analysis, July 1989, October 1989, January 1990, June 1990.

- **Chairman**, CEPH Consortium Chromosome 8 Committee, 1992-1996.

- Journal review: Arch. Ophthalmol., Amer. J. Human Genetics, Circulation, Cytogenetics Cell Genetics, Genomics, Human Genetics, Human Heredity, Human Mutation, Human Molecular Genetics, IOVS, Molecular Vision, Nature, Nature Genetics, Ophthal., Science.

- First Editor, Molecular Genetics Section, *Archives of Ophthalmology*, 1994 - present;

- Member Editorial Review Board, *Molecular Vision*, 1995 - present;

- ARVO Program Moderator, Candidate Gene Analysis, 1996 Annual Meeting.

- **Organizer and Chair**, Workshop on the Role of IMPDH1 in Inherited Retinal Degeneration, Houston, July 13 - 15, 2004.

MAJOR RESEARCH SUPPORT

- Grant from the O'Brien family of Houston, Texas, "Tuberous Sclerosis", Principal Investigator, 50% time, $150,000, Sept. 1979 - August 1981.

- GSBS BRSG Committee Grants:

  "Restriction Site Polymorphisms in Human DNA," Principal Investigator, $18,800, Oct. 1981 - Sept. 1982;

  "DNA Linkage Mapping in Human Reference Families from the Centre d'Etude Polymorphisme Humain (CEPH)", Principal Investigator, 15% time, $6,210, Jan. 1985 - Dec. 1986;

  "Ultracentrifuge Rotor", $5,700, 1983; "Microdensitometer", $4,500, 1987; "Nucleic Acid Extractor", $15,800, 1987.

- National Institutes of Health, Principal Investigator:

  Grant AM30471, "Restriction Site Polymorphisms in Human DNA," Principal Investigator, 50% time, $166,102 (direct), July 1982 - June 1985;

  Small Instrument Grant EY07219, "Liquid Scintillation Counter", Principal Investigator, $17,750, August 1987 - July 1988;

  Grant EY07142, "DNA Linkage Studies of Degenerative Retinal Diseases", Principal Investigator, 50% time, $359,476 (direct), Jan. 1989 - Dec. 1991;

  Grant EY07142, "DNA Linkage Studies of Degenerative Retinal Diseases", Principal Investigator, 20% time, $250,000 current year, **June 1996 - July 2006**, **pending competitive renewal**.

  Grant EY14170, "Identification of the RP10 gene causing retinitis pigmentosa", Principal Investigator, 10% time, $225,000 current year, **Sept 2002 - August 2006, pending competitive renewal**.

- National Institutes of Health, Coinvestigator or Collaborator:

  Supplemental NIH Grant Proposal HD17711, "Phenylketonuria and the Phenylalanine Hydroxylase Gene", Coinvestigator, 10% time, (Savio LC Woo, Principal Investigator), $12,000 (direct), April 1985 - May 1988;

  Specialized Center of Research in Heart Failure HL42267, Coinvestigator, 5% time, (Robert Roberts, Principal Investigator), $54,633 (direct), Dec. 1990 - Nov. 1994;

  "DNA Linkage Studies of Cleft Lip and Palate", Co-Investigator, 5% time, (Dr. Jacqueline Hecht, Principal Investigator), no direct support, June 1991 - May 1996;

  "CEPH Consortium Chromosome 8 Committee", Committee Chair, (Jeffrey Murray, Principal Investigator), $8,000, Oct. 1992 - Sept. 1993;

  "Retinal Pathophysiology in Infants and Adults", EY05235, Co-Investigator, Mutation Detection Subcontract, 10% time, $155,827 (total Subcontract), (David G. Birch, PhD, Principal Investigator), April 1994 - March 1997; $325,000 (total Subcontract), (David G. Birch, PhD, Principal Investigator), **May 1997 - March 2006, pending competitive renewal**.

(**MAJOR RESEARCH SUPPORT** - continued)

- National Retinitis Pigmentosa Foundation:

  "A Linked DNA Marker for Autosomal Dominant Retinitis Pigmentosa", Principal Investigator, 20% time, $54,400, Jan. 1983 - July 1986;

  Support for workshop "Future Directions in Linkage of DNA Polymorphisms to Retinitis Pigmentosa", Chairman, $7,000, March 5, 1984.

- Foundation Fighting Blindness, William Stamps Farish Fund:

  "Support Program for DNA Linkage Studies of Degenerative Retinal Diseases", Program Coordinator, 15% time, $51,328, Jan. 1986 - Dec. 1988;

  "DNA Linkage Studies of Degenerative Retinal Diseases" (renewal), Principal Investigator, $106,355, 50% time, July 1986 - June 1991;

  "Supplement to Support Program for DNA Linkage Studies of Degenerative Retinal Diseases", Program Coordinator, 50% time, $162,273 (plus $8,000 supplement, June 1987), Oct. 1986 - Sept. 1989;

  "DNA Linkage Studies of Degenerative Retinal Diseases", Principal Investigator, $257,000, 45% time, Sept. 1990 - August 1993;

  "Molecular Studies of Autosomal Forms of Retinitis Pigmentosa", Principal Investigator, $299,819, 40% time, Sept. 1993 - August 1996;

  “Molecular Studies of Autosomal Forms of Retinitis Pigmentosa”, Principal Investigator, $484,400, 35% time, **Sept. 1996 - August 2007, pending competitive renewal**.

  "RetNet, Retinal Information Network", Principal Investigator, $90,000, 5% time, **Sept. 1999 - August 2007, pending competitive renewal**.

- National Institute of Justice:

  "Analysis of DNA Typing Data for Forensic Applications", 90-IJ-CX-0038, Principal Investigator, 15% time, $199,015 (direct), June 1990 - May/Dec. 1992;

  "Comparison of Allelic Variation and Statistical Properties of RFLP versus PCR-Based DNA Profiles", 92-IJ-CX-K024; Principal Investigator, 10% time, $100,00 (direct), Dec. 1992 - Nov. 1994.

- National Institutes of Health, Sponsor for National Research Service Award (Postdoctoral Fellowship), EY06467, "Candidate Genes for Retinal Degeneration on Chromosome 8", Dr. Lori A. Sadler, Oct. 1992 - Sept. 1994.

- Hermann Eye Fund, William Stamps Farish Fund, the M.D. Anderson Foundation, Alfred Lasher III : "Laboratory for the Molecular Diagnosis of Inherited Eye Diseases", Principal Investigator and Director, $535,000, 10% time, Sept. 1994 - August 2004.

- John S. Dunn Research Foundation, Genetic Analysis Equipment, Lab. for Molecular Diagnosis of Inherited Eye Diseases, Principal Investigator, $67,500, Dec. 1998.

(**MAJOR RESEARCH SUPPORT** - continued)

- NIH-NEI Training Grant, UT-Houston Department of Ophthalmology, Supervisor for Predoctoral Training, Rachel E. McGuire and Melanie M. Sohocki, Jan. 1995 - May 1999.

- The University of Texas - Houston Collaborative Research Program: "Identification of a human retinitis pigmentosa gene on chromosome 8 using genomic DNA sequencing", Coinvestigator (with Dr. George Weinstock), 5% time, $78,400 (direct), Dec. 1995 - Nov. 1996.

- National Institutes of Health, Sponsor for Physician Scientist Award (K08), EY00350, “Molecular genetic studies in corneal dystrophies”, Dr. Richard Yee, Dec. 1995 - Nov. 2000.

- Applications in review:

  NIH-NEI, "Retinal Pathophysiology in Infants and Adults", EY05235, PI, Dr. DG Birch, Subcontract PI, Dr. SP Daiger, December 2006 - November 2011, $118,692 year one (direct and indirect);

  Foundation for Retinal Research, "Molecular Studies of Inherited Eye Diseases", PI, Dr. SP Daiger, September 2006 – August 2009, $60,000 year one;

  NEI-NIH, "DNA Linkage Studies of Degenerative Retinal Diseases", EY007142, Competitive Renewal, PI, Dr. SP Daiger, April 2007 – March 2012, $225,000 per year;

  Foundation Fighting Blindness, "Center Module V: Studies of ADRP", PI, Dr. SP Daiger, July 2007 - June 2012, $83,891 year one;

  Foundation Fighting Blindness, "Center Module VI: RetNet", PI, Dr. SP Daiger, July 2007 - June 2012, $18,249 year one;

  Foundation Fighting Blindness, "Large Deletions Causing Recessive Retinitis Pigmentosa and Related Diseases", March 2007 - February 2010, $78,567 year one.

PATENT PENDING

1. SP Daiger, MM Sohocki, Diagnosis and Treatment of Retinal Diseases Associated with Human AIPL1, January 2001.

THESIS

1. SP Daiger. The Genetics of Transport Proteins in Human Plasma and Serum. Ph.D. Thesis, Stanford University, April 1976.

BOOK CHAPTERS

1. SP Daiger. Biologic significance of genetic variation in human Gc (vitamin D-binding protein). In: Vitamin D, Basic Research and its Clinical Applications, Walther de Grutyter. New York: Hawthorn, pp. 129-136, 1979.

2. J Constans, H Cleve, A Bennet, R Bouillon, DW Cox, SP Daiger, et al. Group-specific component protein. Report of the First International Workshop, College de France, Paris, July 1978. Hum. Genet., 48:143-149, 1979.

3. SP Daiger, R Chakraborty. Chapter 5. Mapping the human Y chromosome. In "The Cytogenetics of the Mammalian Y Chromosome", Avery A. Sandberg Editor, Alan R. Liss, New York, 1985.

4. SP Daiger, JR Heckenlively, RA Lewis, MZ Pelias. DNA linkage studies of degenerative retinal diseases. In: Degenerative Retinal Disorders: Clinical and Laboratory Investigations, JG Hollyfield, MW LaVail, Eds., Alan R. Liss, pp. 147-162, 1987

5. SP Daiger. Appendix H. The Retinitis Pigmentosa (RP) Collection. NIH Publication No. 89-2011, 1988/1989 Catalog of Cell lines, NIGMS Human Genetic Mutant Cell Repository, 599-608, 1988.

6. MZ Pelias, RJH Smith, SP Daiger, JF Hejtmancik. Usher syndrome in Louisiana. In "Degenerative Retinopathies: Advances in Clinical and Genetic Research", P. Humphries, Ed., CRC Press, 139-143, 1990.

7. SP Daiger, SH Blanton, AW Cottingham, J Laidlaw, JA Rodriguez, JR Heckenlively. Linkage mapping and molecular studies of autosomal forms of retinitis pigmentosa. In "Degenerative Retinopathies: Advances in Clinical and Genetic Research", P Humphries, Ed., CRC Press, 23-34, 1991

8. S Daiger. Issues in DNA fingerprinting. State Bar of Texas Professional Development Program, J1-J41, April 11, 1991

9. SP Daiger, SH Blanton. Problems and Pitfalls in Linkage Mapping of Human genetic Diseases: Illustrations from Autosomal Dominant Retinitis Pigmentosa (ADRP). In "Genetics of Cellular, Individual, Family and Population Variability", CF Sing, CL Hanis, Eds, Oxford Univ. 1993.

10. SP Daiger. Comments on gene symbols and terminology. In "Retinal Degeneration: Clinical and Laboratory Applications", JG Hollyfield, MW LaVail, RE Anderson, Eds., Plenum Pub. Corp., 1993.

(**BOOK CHAPTERS** - continued)

11. JR Heckenlively, SP Daiger. “Hereditary retinal and choroidal degenerations”. Principals and Practices of Medical Genetics, 3rd Edition, Emery and Rimon, Eds, Churchill Livingston, II:2555-2576, 1997

12. SP Daiger, RE McGuire, LS Sullivan, MM Sohocki, SH Blanton, P Humphries, ED Green, H Mintz-Hittner, JR Heckenlively. Progress in positional cloning of RP10 (7q31.3), RP1 (8q11-q21) and VMD1 (8q24). In "Degenerative Retinal Diseases", M LaVail, JG Hollyfield, RE Anderson, Eds, Plenum Publishing Co., pp 277-289, 1997.

13. SJ Bowne, SP Daiger, KA Malone, J Zuo, K Cheon, DG Birch, D Hughbanks-Wheaton, JR Heckenlively, DB Farber, EA Pierce, SS Bhattacharya, CF Inglehearn, LS Sullivan. RP1 mutation analysis. "New Insights into Retinal Degenerative Diseases", RE Anderson, MM LaVail, JG Hollyfield, Eds, Kluwer/Plenum Publishers, pp 55-59, 2001

14. MM Sohocki, DL Tirpak, CM Craft, SP Daiger. Functional analysis of AIPL1, a novel photoreceptor-pineal-specific protein causing Leber congenital amaurosis and other retinopathies. "New Insights into Retinal Degenerative Diseases", RE Anderson, MM LaVail, JG Hollyfield, Eds, Kluwer/Plenum Publishers, pp 37-44, 2001.

15. DH Wheaton, SP Daiger, DG Birch. The Southwest Eye Registry, distribution of disease types and mutations. "New Insights into Retinal Degenerative Diseases", RE Anderson, MM LaVail, JG Hollyfield, Eds, Kluwer/Plenum Publishers, pp 339-348, 2001.

16. JR Heckenlively, SP Daiger. “Hereditary retinal and choroidal degenerations”. Principals and Practices of Medical Genetics, 4th Edition, Rimoin, Connor, Pyeritz and Korf, Eds, Churchill Livingston. Chapter 137, pages 3555-3593, 2002.

17. SP Daiger, LS Sullivan, SJ Bowne, A Kennan, P Humphries, DG Birch, JR Heckenlively. Identification of the RP1 and RP10 (IMPDH1) genes causing autosomal dominant RP. "Retinal Degenerations: Mechanisms and Experimental Therapy", MM LaVail, JG Hollyfield, RE Anderson Eds, Kluwer/Plenum Publishers, 2003.

18. A Kennan, A Aherne, SJ Bowne, SP Daiger, GJ Farrar, PF Kenna, P Humphries. On the role of IMPDH1 in retinal degeneration. "Retinal Degenerations: Mechanisms and Experimental Therapy", MM LaVail, JG Hollyfield, RE Anderson Eds, Kluwer/Plenum Publishers, 2003.

19. SP Daiger. Identifying retinal disease genes: how far have we come, how far do we have to go? Novartis Found Symp. 255:17-27, 2004.

20. J Greenberg, A Ziskind, SP Daiger. Genetics of ocular vascular disease. "Ocular Angiogenesis: Diseases, Mechanisms and Therapeutics" J. Tombran-Tink, CJ Barnstable Eds, Humana Press, Totowa, NJ, 2005.

21. SP Daiger, SP Shankar, AB Schindler, LS Sullivan, SJ Bowne, TM King, EW Daw, EM Stone, JR Heckenlively. "Genetic Factors Modifying Clinical Expression of Autosomal Dominant RP". "Retinal Degeneration XIV", MM LaVail, JG Hollyfield, RE Anderson Eds, Kluwer/Plenum Publishers, 2005.

LETTERS

1. SP Daiger. Letter to the Editor. DNA fingerprinting. Am. J. Hum. Genet., 49:897, 1991.

2. JT Hecht, Y Wang, SH Blanton, SP Daiger. Letter: Van Der Woude syndrome and nonsyndromic cleft lip and palate. Am. J. Hum. Genet., 51:442-444, 1992.

3. SP Daiger. Letter to the Editor: Cases and commentaries [DNA fingerprinting in criminal cases]. Professional Ethics Rpt, 5:6, 1992.

4. SP Daiger, RE McGuire, JR Heckenlively. Reply to Inglehearn and Hardcastle: The map is not the territory. Am. J. Hum. Genet, 58:435-436,1996.

REVIEWED JOURNAL ARTICLES

1. SP Daiger. Peer review: cost control or quality control. Calif. Med., 113:75-80, 1970.

2. SP Daiger, MS Schanfield, LL Cavalli-Sforza. Group-specific component (Gc) proteins bind vitamin D and 25-hydroxyvitamin D. Proc. Natl. Acad. Sci. USA, 72:2076-2080, 1975.

3. LL Cavalli-Sforza, SP Daiger, DP Rummel. Detection of genetic variation with radioactive ligands. I. Electrophoretic screening of plasma proteins with a panel of selected compounds. Amer. J. Hum. Genet., 29:581-592, 1977.

4. SP Daiger, LL Cavalli-Sforza. Detection of genetic variation with radioactive ligands. II. Genetic variants of vitamin D-labeled group-specific component (Gc) proteins. Amer. J. Hum. Genet., 29:593-604, 1977.

5. SP Daiger, M Labowe, M Parsons, L Wang, LL Cavalli-Sforza. Detection of genetic variation with radioactive ligands. III. Polymorphic electrophoretic variants of transcobalamin II in plasma. Amer. J. Hum. Genet., 30:202-214, 1978.

6. SP Daiger, M Miller, G Romeo, M Parsons, LL Cavalli-Sforza. Vitamin D binding proteins in the Williams syndrome and idiopathic hypercalcemia. New Engl. J. Med., 298:687-688, 1978.

7. SP Daiger, DP Rummel, L Wang, LL Cavalli-Sforza. Detection of genetic variation with radioactive ligands. IV. Polymorphic genetic variants of thyroxin-binding globulin (TBG). Am. J. Hum. Genet., 33:640-648, 1981.

8. SP Daiger, RS Wildin. Human thyroxin-binding globulin (TBG): Heterogeneity within individuals and between individuals demonstrated by isoelectricfocusing. Biochem. Genet., 19:673-685, 1981.

9. SP Daiger, RS Wildin, T-S Su. DNA sequences on the human Y chromosome homologous to argininosuccinate synthetase, an autosomal gene. Nature, 298:682-684, 1982.

10. M Fàater-Schröder, HJ Porck, AW Eriksson, SP Daiger, LL Cavalli-Sforza. Standardization of nomenclature for transcobalamin II variants. Hum. Genet., 61:165-166, 1982.

11. LP tenKate, H Bowman, SP Daiger, AG Motulsky. Familial aggregation of coronary heart disease and its relation to known genetic risk factors. Am. J. Cardiology, 50:945-953, 1982.

(**REVIEWED JOURNAL ARTICLES** - continued)

12. SP Daiger, A Chakravarti. Deletion mapping of polymorphic loci by apparent parental exclusion. Am. J. Med. Genet., 14:43-48, 1983.

13. DH Lockwood, DH Coppenhaver, RE Ferrell, SP Daiger. X-linked, polymorphic genetic variation of thyroxin-binding globulin (TBG) in baboons and screening of additional primates. Biochem. Genet., 22:81-88, 1984.

14. LP tenKate, H Bowman, SP Daiger, AG Motulsky. Increased frequency of coronary heart disease in relatives of wives of myocardial infarct survivors: assortative mating for life style and risk factors? Am. J Cardiology, 53:399-403, 1984.

15. SP Daiger, M Miller, R Chakraborty. Heritability of quantitative variation at the group-specific component (Gc) locus. Am. J. Human Genet., 36:663-676, 1984.

16. SP Daiger, NS Hoffman, RS Wildin, T-S Su. Multiple independent restriction site polymorphisms in human DNA detected with a cDNA probe to argininosuccinate synthetase (AS). Am. J. Human Genet., 36:736-749, 1984.

17. AS Lidskey, FD Ledley, AG DiLella, S Kwok, SP Daiger, KJH Robson, SLC Woo. Extensive restriction site polymorphism at the human phenylalanine hydroxylase locus and application in prenatal diagnosis of phenylketonuria. Am. J. Human Genet., 37:619-634, 1985.

18. ME Goode, P vanTuinen, DH Ledbetter, SP Daiger. The anonymous DNA clone D1S1, previously mapped to human chromosome 1p36 by in situ hybridization, is from chromosome 3 and is duplicated on chromosome 1. Am. J. Hum. Genet., 38:437-446, 1986.

19. SP Daiger, AS Lidsky, R Chakraborty, R Koch, F Güttler, SLC Woo. Use of polymorphic DNA haplotypes at the phenylalanine hydroxylase locus in prenatal diagnosis of phenylketonuria. The Lancet, February 1, 229-232, 1986.

20. L Chan, P VanTuinen, DH Ledbetter, SP Daiger, AM Gotto, Jr, SH Chen. The human apolipoprotein B-100 gene: a highly polymorphic gene that maps to the short arm of chromosome 2. Biochem. Biophys. Res. Com., 133:248-255, 1986.

21. SP Daiger, ME Goode, BD Trowbridge. Evolution of nuclear gene families in primates. Copy-number variation in the argininosuccinate synthetase (ASS) pseudogene family and the anonymous DNA sequence D1S1. Genetica, 73:91-98, 1987.

22. R Chakraborty, AS Lidsky, SP Daiger, F Güttler, S Sullivan, AG Dilella, SLC Woo. Polymorphic DNA haplotypes at the phenylalanine hydroxylase (PAH) locus and their relationship with phenylketonuria (PKU). Human Genet., 76:40-46, 1987.

23. SP Daiger, GW Brewton, AA Rios, PWA Mansell, JM Reuben. Genetic susceptibility to AIDS: absence of an association with group-specific component (Gc). New Eng. J. Med., 317:631-632, 1987.

24. HY Zoghbi, MS Pollack, LA Lyons, RE Ferrell, SP Daiger, AL Beaudet. Spinocerebellar ataxia: variable age of onset and linkage to human leukocyte antigen in a large kindred. Ann. Neurology, 23:580-584, 1988.

(**REVIEWED JOURNAL ARTICLES** - continued)

25. HY Zoghbi, SP Daiger, A McCall, WE O'Brien, AL Beaudet. Extensive DNA polymorphisms at the Factor XIIIA (F13A) locus and linkage to HLA. Am. J. Hum. Genet., 42:877-883, 1988.

26. SP Daiger, MM Humphries, N Giesenschlag, E Sharp, P McWilliam, J Farrar, D Bradley, P. Kenna, DC McConnel, RS Sparkes, MA Spence, JR Heckenlively, P Humphries. Linkage analysis of human chromosome 4: exclusion of autosomal dominant retinitis pigmentosa (ADRP) and detection of new linkage groups. Cytogenet Cell Genet, 50:181-187, 1989.

27. SE Sullivan, SD Moore, JM Conners, M King, F Cockburn, B Steinmenn, R Gitzelmann, SP Daiger, SLC Woo. Haplotype distribution of the human phenylalanine hydroxylase locus in Scotland and Switzerland. Am. J. Hum. Genet, 44:652-659, 1989.

28. H Zoghbi, L. Sandkuyl, J Ott, SP Daiger, M Pollack, WE O'Brien, AL Beaudet. Assignment of autosomal dominant spinocerebellar ataxia centromeric to the HLA region on the short arm of chromosome 6 using multilocus analysis. Am. J. Hum. Genet., 44:255-263, 1989.

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PROFESSIONAL PRESENTATIONS (starting 2000)

1. Invited lecture, "The Human Genome Project", Rice Model High School Biology Laboratory, Lanier High School, Houston, April 12, 2000.

2. Invited lecture, Plenary Session, "Why is finding disease genes so difficult", Vision Quest 2000, 11thWorld Congress of Retinal International, Toronto, Canada, July 14, 2000.

3. Invited lecture, "RetNet, Retinal Information Network" and "Photoreceptor-pineal gland genes causing Leber congenital amaurosis", Vision Quest 2000, 11thWorld Congress of Retinal International, Toronto, Canada, July 14, 2000.

4. Invited lecture, Plenary Session Keynote Presentation, "Genetics Research: The Cornerstone", Visions 2000, Nat. Conf. of the Foundation Fighting Blindness, Orlando, FL, August 10, 2000.

5. Class lecture, "Why do mutations in photoreceptor genes cause retinal degeneration?", Neurobiology of Disease, Neurobiology Department, UT-Houston, Sept. 21, 2000.

6. Instructor, "Update on Inherited Retinal Diseases: New Mutations, Approaches, Future Therapies". American Academy of Ophthalmology, Dallas, Oct. 24, 2000.

7. Invited lecture, "Overview of identification of adRP genes and mutations", Southwest Regional Research Center, 1st Annual Meeting, Dallas, Nov. 10, 2000.

8. Invited lectures (3), "Why is the Human Genome Project such a big deal?", Bellaire High School, Advanced Biology Classes, Nov. 16, 2000.

9. Invited lecture, "From genes to cures", Foundation Fighting Blindness, Annual Meeting of the Board of Directors, Ft. Lauderdale, FL, Feb.2, 2001.

10. Instructor, "Update on Inherited Retinal Diseases". American Academy of Ophthalmology, New Orleans, Nov. 11, 2001.

11. Invited lectures (4), "The Human Genome Project", Bellaire High School, Biology II (AP), Dec. 4, 2001.

12. Invited lecture, "Advances in genetics of retinal diseases", Foundation Fighting Blindness, Annual Meeting of the Board of Directors, Ft. Lauderdale, FL, Feb.1, 2002.

13. Invited lecture, "Role of modifying factors in RP1", Southwest Regional Research Center, 2nd Annual Meeting, Oklahoma City, April 6, 2002.

14. Invited participant, Spring Grant Getting Seminar, GSBS, UT-H, May 16, 2002.

15. Invited presentation, "Functional studies of the RP1 and RP10 genes causing autosomal dominant retinitis pigmentosa", Xth International Symposium on Retinal Degeneration, Bürgenstock, Switzerland, October 2, 2002.

16. Invited presentation, “Identifying genes causing retinal degeneration: how far have we come, how far do we have to go?", Novartis Foundation Symposium, Retinal Dystrophies: Functional Genomics to Gene Therapy, Baltimore, MD, Oct. 21, 2002.

(**PROFESSIONAL PRESENTATIONS** - continued)

17. Invited presentation, “Molecular studies of retinitis pigmentosa: from gene identification to treatments”, Mini-Symposium, Program in Human and Molecular Genetics, GSBS, UT-Houston, February 7, 2003.

18. Invited presentation, “Molecular studies of retinitis pigmentosa: from gene identification to treatments”, 2003 Research Retreat, Medical School, UT-Houston, Woodlands Conference Center, February 28, 2003.

19. Invited presentation, “Research on autosomal dominant retinitis pigmentosa”, Retina Foundation of the Southwest, Dallas, TX, July 15, 2003.

20. Invited presentation, “RetNet, the Retinal information Network”, NHGRI-Wellcome Trust Workshop on Informatics Resources for the Human Genome, Chaired by Dr. Francis Collins, Director, National Human Genome Research Institute, National Institues of Health, Bethesda, MD, September 22, 2003.

21. Invited presentation, “Ophthalmology Grand Rounds: Identification of genes causing retinitis pigmentosa”, University of Iowa, Department of Ophthalmology, Iowa City, October 2, 2003.

22. Invited presentation, “Genes and mutations causing retinitis pigmentosa: where do we go from here?”, Howard Hughes Medical Institute and Program in Molecular Biology, University of Iowa, Iowa City, October 2, 2003.

23. Invited presentation, “Retinitis pigmentosa: New advances in laboratory research”, Save Sight Saturday, sponsored by the Jackson Woman’s Club, Breathitt County High School, Jackson, Kentucky, October 1, 2003.

24. Invited presentation, “Retinal disease research: Houston”, National Diagnostic Genotyping Meeting, Chaired by Dr. Paul A. Sieving, Director, National Eye Institute, National Institutes of Health, Bethesda, MD, November 10, 2003.

25. Invited presentation, “Genetics: Finding the Genes for Retinal Diseases”, Annual Meeting of Board of Trustees, Guests and Scientific Advisory Board, Foundation Fighting Blindness, Amelia Island, FL, January 30, 2004.

26. Invited presentation, “Ophthalmology Grand Rounds: Factors modifying monogenic diseases, e.g., autosomal dominant RP”, University of Iowa, Department of Ophthalmology, Iowa City, May 26, 2004.

27. Platform presentation, "Genetic factors modifying clinical expression of inherited retinal diseases", XI International Symposium on Retinal Degeneration, Perth, Australia, 2004.

28. Invited presentation: “Genetics, the foundation of future therapies for retinal degeneration”, Board of Trustees, Guests and Scientific Advisory Board , Foundation Fighting Blindness, Tampa, FL., January 28, 2005.

29. Invited presentation, "Identifying pathogenic mutations causing autosomal dominant retinitis pigmentosa", Assoc. for Research in Vision and Ophthalmology, OCMB, September 9, 2005.

30. Invited keynote lecture, “Why do mutations in IMPDH cause retinal degeneration and only retinal degeneration?”, Kellogg Eye Center, University of Michigan, Oct. 6, 2005.

(**PROFESSIONAL PRESENTATIONS** - continued)

31. Faculty President Address, GSBS Commencement, May 6, 2006.

32. Invited Presentation, "LCA Gene Update", Foundation for Retinal Research, LCA Biannual Meeting, July 29, 2006.