CURRICULUM VITAE

Stephen P. Daiger, Ph.D.,
TS Matney Professor in Environmental and Genetic Sciences
Mary Farish Johnston Distinguished Chair in Ophthalmology

October 2017

BUSINESS ADDRESS

Human Genetics Center, EHGES Department, School of Public Health, RAS W-522
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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 Faculty Member (1983), School of Allied Health Sciences, The Univ. of Texas Health Science Center at Houston, Sept. 1983 – Dec. 2005.

Adjunct Professor (1989) and Adjunct Assistant Professor (1983), Department of Pediatrics, Baylor College of Medicine, Houston, Texas, May 1983 - 2001.

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

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

RECENT TEACHING EXPERIENCE

Course Organizer and Instructor, PH2830, Clinical Genetics in Epidemiology, 2008 - 2017.

Course Instructor, PH2770, NIH Proposal Development, 2012 - 2017.

Course Instructor, GSBS HMG Program Module 3, Clinical Medical Genetics and Genomics, 2015.

Course Organizer and Instructor, PH2998, Introduction to Medical Genetics in Public Health, 2007.

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 Research/Scholarship Incentive Award, School of Public Health, FY 2001 - FY 2006

(**ACADEMIC AWARDS and HONORS -** continued**)**

Thomas Stull Matney PhD Professor of Environmental and Genetic Sciences, 2004.
2013 Barbara Bowman Distinguished Texas Geneticist, Texas Genetics Society.
2014 ARVO Silver Fellow.
2015 Elected Fellow, American Association for Advancement of Science (AAAS).
2016 Distinguished Service Award, Texas Genetics Society.

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science, since 1965.
American Society of Human Genetics, since 1973.
Texas Genetics Society, since, 1978.
Human Genome Organization (HUGO), since 1995.
Association for Research in Ophthalmology and Vision (ARVO), since 1993.
International Society for Genetic Eye Disease and Retinoblastoma, since 2006.

OTHER PROFESSIONAL ACTIVITIES

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

  Member, Intellectual Property Advisory Committee, 1993 - present;

  Member, Research Conflict of Interest Committee, 2002 – present;

  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 2009 – 2012;

  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; 2010;

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

  Member, Scientific Review Committee, 1999 - present;

OTHER PROFESSIONAL ACTIVITIES - continued))

Member CCTS Engine of Innovation, 2008-present.

- **Graduate School of Biomedical Sciences, UTHCS-Houston**:

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

  Member, Executive Committee, 2009 – present;

  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;

  Member, GSBS Endowed Professorship Nominating Committee, 2006-2007;

  Member, Schissler Scholarship Review Committee, 2006.

- **School of Public Health, UT-Houston**:

  Chair (since 2002) and Member, Scholarship and Traineeship Awards Committee, 1996 - present;

  Convener, Biological Sciences Discipline, 1998 - 2005;

  Member, Faculty Council, 2008 – present;

  Chair, Faculty Search Committee, Human Genetics Center, 2000 - 2010.

- **National Institutes of Health**:

  National Eye Institute: Network Laboratory Director, EyeGENE Network Collaborator; member, EyeGENE Steering Committee; member, NEI-NIH Data Access Committee;

  Member, Special Evaluation Panel, National Eye Institute, 1992 – present;

  Ad Hoc Member, Mammalian Genetics Study Section, 1982;

  Ad Hoc Member, Visual Sciences C, 1998-1999;2015;

  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; August 2012.

(**OTHER PROFESSIONAL ACTIVITIES -** continued)

- **Texas Genetics Society**:

  Member, Board of Directors, 1984-1994; 2012-2018;

  President Elect and President, 1990-1992;

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

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

  Member, Nominating Committee, 1999 - 2002.

- **Foundation Fighting Blindness (National Retinitis Pigmentosa Foundation)** :

  Chair, Genetics Committee, and Vice Chair, Scientific Advisory Board, 1998 – present;

  Invited Speaker, Annual Meeting of Board of Directors and Scientific Advisory Board, April 1984, April 1987, May 1998, Jan. 2002; Jan. 2004; Jan. 2005;through 2012;

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

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

  Retinal Donor Committee, July 1996;

  Houston-Gulf Coast Chapter, Foundation Fighting Blindness, Member, Scientific Advisory Board, 1984-present.

- **Other**

  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.

OTHER PROFESSIONAL ACTIVITIES - continued)

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.

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

CONSULTING

Scientific Advisory Board, Bikam Pharmaceuticals, 2004-2015.

Scientific Advisory Board, ATGC (Applied Genetics Technology Corporation), 2014-present.

MAJOR RESEARCH SUPPORT

- **National Institutes of Health, Principal Investigator**:

EyeGENE Network Contract, National Eye Institute, Principal Investigator, 5% time, $200,000/yr estimated, Nov. 2007 – Oct. 2016**;**

Grant EY07142, "DNA Linkage Studies of Degenerative Retinal Diseases", Principal Investigator, 20% time, $250,000/yr, and Administrative Supplement; Jan. 1989 – August 2018;

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

(**MAJOR RESEARCH SUPPORT** – continued)

- **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, 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.

- **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**:

  "Molecular Studies of Autosomal Forms of Retinitis Pigmentosa", Principal Investigator, $80,000/year, 5% time, Sept. 1996 – August 2017;

  "RetNet, Retinal Information Network", Principal Investigator, $15,000/year, 5% time, Sept. 1999 - August 2017;

  "Factors affecting clinical consequences of mutations causing X-linked retinitis pigmentosa", Principal Investigator, $80,000/year, 5% time, May 2010 – April 2016;

(**MAJOR RESEARCH SUPPORT** – continued)

(**FFB** - continued)

"Targeted High Throughput Sequencing for Gene Discovery for Retinitis Pigmentosa", Principal Investigator, $300,000 per year, 5% time, June 2008 – May 2013;

"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;

"Large Deletions Causing Retinitis Pigmentosa and Related Diseases", Principal Investigator, $80,000/year, 5% time, July 2007 – June 2010.

- **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.

- **Other**:

Award from the Hermann Eye Fund, "Advanced DNA Testing for Diagnosis and Treatment of Retinitis Pigmentosa", $300,000, 2015;

Grant from the William Stamps Farish Fund, "The Texas 1000 Project", $15,000 per year, July 2015-June 2018;

Grant from the Posthumus Family, $10,000, 2012; other contributions, $5,000, 2012;
Grant from the O'Brien family of Houston, Texas, "Tuberous Sclerosis", Principal Investigator, 50% time, $150,000, Sept. 1979 - August 1981;

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;

(**MAJOR RESEARCH SUPPORT** – **Other** continued)

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;

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.

PATENT FILED

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

THESIS

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.

(**BOOK CHAPTERS** continued)

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.

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. 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.

(**BOOK CHAPTERS** continued)

18. SP Daiger, SJ Bowne, LS Sullivan. Chapter 31, Genetic Mechanisms of Retinal Disease. "Retina, 5th Edition", SJ Ryan et al., Elsevier, ISBN: 9781455707379, November 2012; January 2016.

LETTERS

1. SP Daiger. Letter to the Editor. DNA fingerprinting. Am. J. Hum. Genet., 49:897, 1991. PMC1683184

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. PMC1682677

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. PMC1501824

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. PMC432697

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. PMC1685497

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. PMC1685512

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. PMC1685573

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. PMC1685094

(**REVIEWED JOURNAL ARTICLES**- continued**)**

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.

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. PMC1684475

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. PMC1684500

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. PMC1684630

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. PMC1684800

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.

(**REVIEWED JOURNAL ARTICLES**- continued**)**

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.

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. PMC1715200

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. PMC1715636

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177. DK Wheaton, K Webb-Jones, DG Birch, SJ Bowne, LS Sullivan, C Avery, F Wang, R Chen, SP Daiger. Retinal targeted-capture next generation sequencing and CLIA confirmation in a representative range of patients with inherited retinal degeneration: a pilot of the “Texas 1000” Project. International Society for Genetic Eye Diseases (ISGDER) Bi-Annual Meeting, Halifax NS, August 2015.

178. LS Sullivan, SJ Bowne, DC Koboldt, RS Fulton, KG Locke, KD Webb-Jones, DK Wheaton, RK Wilson, DG Birch, SP Daiger. A tandem duplication of PRDM13 in a family with North Carolina Macular Dystrophy (MCRD1). Invest. Ophthalmol. Vis. Sci. E-Abstract 57:3132, 2016.

179. DK Wheaton, KD Webb-Jones, SJ Bowne, LS Sullivan, R Chen, SP Daiger, DG Birch. Complex multi-allelic inherited retinal dystrophy: Multiple genes contributing independently and concurrently in extended families. Invest. Ophthalmol. Vis. Sci. E-Abstract 57:3135, 2016.

(**ABSTRACTS** - continued)

180. SP Daiger SJ.Bowne, LS Sullivan, KD Webb-Jones, DG Birch, CE Avery, F Wang, R Chen, DK Wheaton. Retinal targeted-capture next generation sequencing and CLIA confirmation in patients with a range of inherited retinal degeneration. Invest. Ophthalmol. Vis. Sci. E-Abstract 57:1417, 2016.

181. SP Daiger, LS Sullivan, SJ Bowne. Molecular findings in families with an initial diagnose of autosomal dominant retinitis pigmentosa. XVIIth International Symposium on Retinal Degeneration, Kyoto Japan, September 2016.

182. J Fisher, LS Sullivan, SP Daiger, B Mansfield. My Retina Tracker® - An international patient-driven registry for the inherited retinal degenerations, XVIIth International Symposium on Retinal Degeneration, Kyoto Japan, September 2016.

183. SP Daiger, LS Sullivan, SJ Bowne. Gene discovery and mutation detection in families with dominant retinitis pigmentosa (RP), Invited Topic Session "Gene Discovery, Genetic Counseling, and Clinical Care of Patients with Inherited Retinal Diseases", American Society of Human Genetics, Annual Meeting, Vancouver, Canada, October 20, 2016.

184. K Webb-Jones, M Klein, SJ Bowne, LS Sullivan, SP Daiger, DG Birch. EZ Width reflects disease severity in adRP patients with PRPF31 gene mutations.. Invest. Ophthalmol. Vis. Sci.. 2017; 58:3216, 2017.

185. LS Sullivan, SJ Bowne, K Webb-Jones, JR Heckenlively, DC Koboldt, Y Li, R Chen, V Gurevich, DG Birch, SP Daiger. An ancestral mutation in SAG (S-antigen visual arrestin-1) is a common cause of autosomal dominant retinitis pigmentosa in Hispanics. Invest. Ophthalmol. Vis. Sci. 58:2763, 2017.

186. DG Birch, K Webb-Jones, M Klein, R Chen; LS Sullivan; SJ Bowne; SP Daiger. SAG (S-antigen visual arrestin-1) mutations cause autosomal dominant retinitis pigmentosa (adRP) without the Oguchi disease phenotype. Invest. Ophthalmol. Vis. Sci.. 58:3234, 2017.

PRESENTATIONS

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.

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 Institutes 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.

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.

33. Invited Presentation, “Why deletions in genes causing retinal diseases are important”, Day of Science, Foundation Fighting Blindness, Orlando, FL, January 26, 2007.

34. Invited presentation, “Finding genes and mutations causing autosomal dominant retinitis pigmentosa”, Kellogg Eye Center, Univ. of Michigan, October 25, 2007.

35. Invited Presentation, “Genes and mutations causing autosomal dominant retinitis pigmentosa”, National Eye Institute, Bethesda, MD, March 12, 2008.

36. Invited presentation, “Past, present and future of autosomal dominant retinitis pigmentosa”, Vision Research Seminar Series, Emory Eye Center, Atlanta, GA, August 14, 2008.

37. Invited seminar, “Genes causing inherited retinal diseases”, Genome Sequencing Center, Washington University, St. Louis, MO, August 27, 2008.

38. Invited presentation, “Targeted high-throughput DNA sequencing for gene discovery in retinitis pigmentosa”, XIII International Meeting on Retinal Degeneration, Chengdu, China, September 20, 2008.

39. Invited presentation, "Genetics and gene discovery to clinical trails", Foundation Fighting Blindness, Houston Chapter, March 15, 2009.

40. Invited presentation, "Technology leading to whole-genome sequencing for adRP", National Eye Institute, National Institutes of Health, March 25, 2009.

41. Invited presentation, "Has finding genes causing retinitis pigmentosa helped patients?", Thirteenth Annual Symposium, Program in Human and Molecular Genetics, The Univ of Texas HSC, Houston, March 27, 2009.

42. Invited presentation, "Finding genes and mutations causing retinitis pigmentosa", Future Visions Symposium, American Society of Human Genetics, Annual Meeting, Honolulu, Hawaii, October 21, 2009.

43. Invited presentation, “The role of genetic testing in finding treatments and cures”, 2010 Day Of Science, Foundation Fighting Blindness, Los Angeles, February 27, 2010,

44. Invited presentation, "Next-generation approaches to finding mutations causing adRP”, National Eye Institute, National Institutes of Health, March 11, 2010.

45. Invited presentation, “Why is finding genes and mutations causing retinitis pigmentosa so hard?”, Pediatrics Dept. Research Seminar, UTHSC-H Medical School, January 25, 2011.

46. Invited presentation, “Genetics of inherited retinal diseases”, Ophthalmology Residents, Dept. of Ophthalmology and Visual Science, UTHSC-H Medical School, February 3, 2011.

47. Invited presentation, "Why is finding genes and mutations causing retinitis pigmentosa so complicated?", Human Genetics Center, School of Public Health, UTHSC Houston, February 14, 2011.

48. Invited presentation, "Finding genes and mutations causing retinitis pigmentosa", 22nd Meeting of the German Society of Human Genetics, Regensburg, Germany, March 18, 2011

49. Invited presentation, Houston FFB Chapter, “From gene discovery to gene therapy”, Science Presentation and Vision Walk Launch, Lighthouse of the Blind, Houston, June 6, 2011.

50. Invited presentation, International Conference in Honor of Dr. William J. Schull - Advances in Demographic and Population Genetics, "The Connection between laboratory and population genetics”, MD Anderson Cancer Center, Houston, February 11, 2012.

51. Invited presentation, Cole Eye Institute 2012 Distinguished Lecture Series, “The challenge and benefits of identifying genes and mutations causing retinitis pigmentosa”, Cleveland Clinic, Cleveland, Ohio, March 15, 2012.

52. Invited presentation, Foundation Fighting Blindness, Visions 2012, “Update and Overview: Retinitis Group B”, Minneapolis, MN June 29, 2012.

53. Invited presentation, Foundation Fighting Blindness, Visions 2012, “The Doctor is In: Retinitis Group B”, Minneapolis, MN June 30, 2012.

54. Invited presentation, Foundation Fighting Blindness, Visions 2012, “Genetic testing and genetic counseling”, Minneapolis, MN June 30, 2012.

55. Invited presentation, 17th Retina International World Congress, "Genetics of retinal dystrophies", Hamburg Germany, July 14, 2012.

56. Invited presentation, 17th Retina International World Congress, “Genetic diagnosis: mutations and screen methods", Hamburg Germany, July 14, 2012.

57. Invited presentation, “Benefits and limitations of genetic testing for retinitis pigmentosa”, Department of Ophthalmology, Peking Union Medical Hospital, Beijing, China, August 15, 2012.

58. Invited presentation, Fourth Symposium & Short Course on Medical and Laboratory Applications in Genetics and Genomics, “Finding genes and mutations causing autosomal dominant retinitis pigmentosa”, Shenzhen, China, August 17-20, 2012.

59. Invited speaker, Center for Vision Research, Univ. of Florida, “Progress in finding genes and mutations causing autosomal dominant retinitis pigmentosa (adRP)”, Gainesville, Florida, October 29, 2012.

60. Invited speaker, AGTC Scientific Advisory Board, “Genetics of retinal degenerative diseases”, Orlando, Florida, January 18, 2013.

61. Invited speaker, Dallas/Fort Worth Visions Seminar, Irving Convention Center, “Genetics of retinal diseases”, Dallas, Texas, February 22, 2013.

62. Keynote Address, Houston Area Insight Expo 2013, Univ. of Houston, College of Optometry, “Progress in diagnosis and treatment of inherited eye diseases”, Houston, Texas, April 20, 2013.

63. Invited presentation, “Promising treatments for inherited eye diseases”, Hermann Eye Fund Board Meeting, April 23, 2013.

64. Invited presentation, “Finding genes and mutations causing retinitis pigmentosa”, Univ. of Houston College of Optometry, Houston, July 18, 2013.

65. Invited presentation, “Great progress in understanding and treating retinitis pigmentosa”, Houston Chapter Foundation Fighting Blindness, 2013 VisonWalk Kick-Off, Aug. 3, 2013.

66. Invited presentation, “Proposed Center for the Diagnosis and Treatment of Retinitis Pigmentosa”, Hermann Eye Fund Board Meeting, Oct. 16, 2013.

67. Invited presentation, “Finding Genes and Mutations Causing Retinitis Pigmentosa Leading to Promising Treatments”, Louis J. Fox Center for Vision Restoration, Eye and Ear Institute, Univ. of Pittsburgh, May 28, 2014.

68. Invited speaker, “What is genetic testing and does it really matter?”, Save Sight Seminar, Univ. of Houston School of Optometry, November 15, 2014

69. Invited speaker, “Should parents be able to use genetic modification to determine the traits of their children?” Texas Gulf Coast HOBY Hugh O'Brian Youth Leadership, May 30, 2015.

70. Invited presentation, “Gene discovery and mutation detection for retinitis pigmentosa (RP) with implications for clinical care”, Human Genetics center, UTHealth, March 21, 2016

71. Invited Presentation, “Genes and mutations causing retinitis pigmentosa and related diseases”, Molecular and Developmental Biology of Vision Research Program, Baylor College of Medicine, April 20, 2016

72. Platform Presentation, “Retinal targeted-capture next generation sequencing and CLIA confirmation in patients with a range of inherited retinal degenerations”, ARVO Annual Meeting, May 2, 2016.