CURRICULUM VITAE

Personal Information

Name: James P. Evans

Home Address:

Business Address: Department of Genetics
CB # 7264
UNC at Chapel Hill
Chapel Hill, NC 27599
(919) 966-2007
jpevans@med.unc.edu

Education

1976-1979	**University of Kansas**, *Lawrence, Kansas* Major: Chemistry. Degree requirement waived for admission into medical school and graduate school.
1979-1983	**University of Kansas Medical Center Graduate School**, Department of Pathology and Oncology, *Kansas City, Kansas* Ph.D. with honors awarded in May, 1983
1979-1984	**University of Kansas Medical Center, School of Medicine**, *Kansas City, Kansas* M.D. awarded in May, 1984.

Positions held:

1984-1985	Intern in Internal Medicine, North Carolina Memorial Hospital/University of North Carolina, *Chapel Hill, North Carolina 27514.*
1985-1987	Junior and Senior Assistant Resident, North Carolina Memorial Hospital/University of North Carolina, *Chapel Hill, North Carolina 27514.*
1987-1988	Chief Resident in Internal Medicine at the University of North Carolina at Chapel Hill, North Carolina Memorial Hospital, *North Carolina 27514.*
1988-1989	Hematology fellow, University of North Carolina, *Chapel Hill, North Carolina 27514.*
1989-1991	Fellow in Medical Genetics, University of Washington, *Seattle, Washington 98195.*
1991-1992	Acting Assistant Professor, University of Washington, *Seattle, Washington 98195.*
1992-1994	Investigator, Lucille P. Markey Molecular Medicine Center.
1992-1994	Assistant Professor, Division of Medical Genetics, Department of Medicine, University of Washington, *Seattle, Washington 98195.*
1994-1995	Assistant Professor and Chief, Division of Medical Genetics, Department of Medicine, University of North Carolina, *Chapel Hill, North Carolina 27599.*
1994-1995	Member, Lineberger Comprehensive Cancer Center and Program for Molecular Biology and Biology and Biotechnology, University of North Carolina at Chapel Hill.
1995-1997	Physician, Internal Medicine. The Carolina Permanente Medical Group.
1997-Present	Associate Professor, Medicine at University of North Carolina School of Medicine. Departments of Genetics and Medicine
1997-Present	Director, Cancer Genetics Services
2002-Present	Director, The Bryson Program in Human Genetics
2005-Present	Member of Advisory committee to The US Secretary of Health and Human Services on "Genetics, Health and Society"

Editorial Positions:

Editor-in-Chief, Genetics in Medicine, the official journal of the American College of Medical Genetics. Assume position fall of 2006

Certification/Licensure:

1984 - Present	North Carolina. License number

Board Certification:

	Board Certified in Internal Medicine, 1984
	Board Certified in Clinical Medical Genetics, 1993
	Board Certified in Molecular Diagnostics, 1993

Honors and Awards:

Undergraduate:

1976	U.G. Mitchell Scholar-mathematics
1977	Vita B. Lear Scholar- academic excellence
1978	Summerfield Scholar- highest award bestowed upon undergraduates by the University of Kansas
1979	Excellence in the study of German
1979	Excellence in the study of Biology

Graduate and Medical School:

1980	Sutton Award- genetic research. Student Research Forum, University of Kansas
1980	Accugenics Corporation- best paper in immunohematology, national competition
1981	William Bailey Award- research in pathology
1982	Ph.D. dissertation defense- passed with honors
1983	Elected to Alpha Omega Alpha- Honorary Society of Physicians

Residency:

1985	Fordham Award- bestowed upon a resident each for excellence in teaching and clinical performance.
1986	Fordham Award

Post Residency:

1992	Selected as Lucille P. Markey Investigator
1998	Internal Medicine Faculty Award, bestowed by the Medicine Housestaff for teaching excellence
1999	Annual faculty award for Excellence in Teaching of Medicine Residents
2004	Catch a Star Award for Clinical Performance in General Medicine
2006	Selected by 2nd year medical students as a presenter for the annual "Clinical Pearls" Day

Funding:

1988-1989	Judith Graham Pool Award from the National Hemophilia Foundation, "Molecular Biology of Canine Hemophilia B."
1989-1990	Institutional National Institutes of Health training grant. University of Washington, Division of Medical Genetics.
1991-1994	Howard Hughes Medical Institute, "Research fellowship for physicians." Sponsor: Richard Palmiter. Funding consists of salary, indirect costs, and supply funds for sponsor's laboratory.
1992-1994	Lucille P. Markey Assistant Professorship, University of Washington. Provides three years of 100% research and salary support with three additional years of declining support.
8-1994 to 8-1997	NIH Award 1 ROIHD31153-01 "The molecular basis of split hand/split foot malformation" Direct Cost $133,000/year.
8-1994 to 8-1995	Equipment grant from The National Foundation for Ectodermal Dysplasia, $10,000.
1998-2005	Principal Investigator, UNC site of Carolina and Georgia Genetics Network

James P. Evans, MD, PhD
Curriculum Vitae

May 1, 2000

Teaching:
Co-chair of Medical Genetics course for second-year medical students at University of Washington, 1992-1994. Responsible for course organization, content, seven out of fifteen lectures, and the final exam.

Preceptor, University of North Carolina Medicine Residents Clinic

Preceptor, University of North Carolina Urgent Care Clinic

Preceptor and Lecturer, Genetic Counseling Program at UNC-Greensboro.

Director of "Genetics and Molecular Biology", a new 1st year Medical School Course at UNC

Special Activities:
Chief Scientific Advisor, "Genetics and The Law", an international symposium hosted by the North Carolina Supreme Court, designed to educate judges about genetics. September 17-20, 2000. Chapel Hill, NC

Scientific Advisor for Meeting of the International Common Law Nations, June 2001

Scientific Advisor for The National Judicial Institute of Canada, September 2001

Member, Advisory Board, UNC Center for Health Ethics, and Policy

President and Board Member, Aegis Initiative (A not-for-profit organization concerned with financial assistance to indigent oncology patients to receive treatment)

Senior Scientific Faculty for the 2nd annual meeting of International Common Law Nations, Ottawa Canada, June 2002. Plenary presentations regarding global perspectives on the use of stem cells and behavioral genetics.

Visiting Professor, University of Hawaii February 22-28; 2003. Genetics and medicine.

Senior Science Fellow Einstein Institute for Science, Health, and the Courts

Advisor and participant to the United Nations Industrial Development Organization for an international conference held in March, 2004 regarding biotechnology in the developing world

Chief Scientist for "Judges' Medical School", an anchor conference as part of a broad educational program for US State Supreme Court and Federal judges; to be held in March, 2006 at UNC Chapel Hill

Publications:

1. Plapp FV, Kowalski MM, Tilzer LL, Brown PJ, **Evans J**, and Chiga M. Partial purification and Rh (D) antigens from Rh positive and negative erythrocytes. Pro. Natl. Acad. Sci. USA. 76:2964-2968, 1979.

2. Plapp FV, Kowalski MM, **Evans J**, Tilzer LL, and Chiga M. The role of membrane phospholipid in expression of erythrocyte Rh (D) antigen activity. Proc. Soc. Exp. Biol. Med. 164:561-568, 1980.

3. Plapp FV, **Evans JP**, Tilzer LL. Detection of Rh (D) antigen on the inner surface of Rh negative erythrocyte membranes. Fed Proc. 40:208, 1981.

4. Tilzer LL, Plapp FV, **Evans JP**, and Chiga M. Different ionic forms of estrogen receptor in rat uterus and human breast carcinoma. Cancer Research. 41:1058-1063, 1981.

5. Tilzer LL, Plapp FV, **Evans JP**. Steroid receptor proteins in human meningiomas. Cancer. 49:633-636, 1982.

6. **Evans JP**, Brown PJ, Sinor LT, Tilzer LL, and Plapp FV. Identification of Rh (D) antigen in polyacrylamide gels by an enzyme linked immunoassay. Molecular Immunology. 19(5): 671-675, 1982.

7. Brown PJ, **Evans JP**, Sinor LT, Tilzer LL, and Plapp FV. The rhesus D antigen is a dicyclohexylacarbodiimide binding proteolipid. Am. J. Pathol. 110(2): 127-134, 1983.

8. **Evans JP**, Brown PJ, Sinor LT, Beek MLO, and Plapp FV. Detection of a protein on the inner surface of Rh negative erythorocytes which binds anti-D IgG. Molecular Immunology. 20(5):529-536, 1983.

9. Sinor LP, Brown PJ, **Evans JP**, and Plapp LV. The Rh antigen specificity of erythrocyte proteolipid. Transfusion. 24(2): 179-180, 1984.

10. **Evans JP**, Watzke HW, Ware JL, Stafford DW, High KA. Molecular cloning of a cDNA encoding canine factor IX. Blood. 74:207-212, 1989.

11. **Evans JP**, Brinkhous KM, Reisner H, Brayer GD, and High KA. A point mutation in canine hemophilia B with unusual consequences. Proc. Natl. Acd. Sci. USA. 86:10095-10099, 1989.

12. **Evans JP**, and Palmiter RD. Retrotransposition of a mouse L1 element. Proc. Natl. Acad. Sci. USA. 88:8792, 1991.

13. Scherer SW, Poorkaj P, Allen T, Kim J, Geshuri D, Nunes M, Soder S, Stevens K, Pagon RA, Patton MA, Berg MA, Donlon T, Rivera H, Pfeiffer RA, Naritomi K, Hughes H, Genuardi M, Gurrieri F, Neri G, Lovrein E, Magenis E, Tsui L-C, and **Evans JP**. Fine mapping of the Autosomal dominant split hand/split foot locus on chromosome 7, band q21.3-a22. American Journal of Human Genetics. 55:12-20, 1994.

14. Palmer SE, Scherer S, Kukolich M, Wijsman EM, Tsui L-C, Stephens K, and **Evans JP**. Evidence for locus heterogeneity in autosomal dominant split hand/split foot malformation. American Journal of Human Genetics. 55:21-26, 1994.

15. Scherer S, Poorkaj P, Geshuri D, Nunes M, Geneuardi M, Tsui L-C, and **Evans JP**. Physical mapping of the human split hand/ split foot (SHSF) locus on chromosomes 7 reveals a relationship between SPSF and the syndromic ectrodactylies. Human Molecular Genetics. 3:1345-1354, 1994.

16. Nunes M, Pagon R, Disteche CJ, and **Evans JP**. A contiguous gene deletion syndrome at human 7q21-q22 and implications for the relationship between isolated ectrodactyly and syndromic ectrodactyly. Clinical Dysmorphology. 3:277-286, 1994.

17. Jarvik GP, Patton MA, Homfray T, and **Evans JP**. Segregation distortion in a human developmental disorder: split hand/ split foot malformation. Am. J. Hum. Genet. 55:710-713, 1994.

18. Marinoni JC, Stevenson RE, **Evans JP**, Geshuri D, Phelan MC, Shewartz CE. Split foot and developmental retardation associated with a deletion of three microsatellite makers in 7q21-q22.1. Clinical Genetics. 47:90-95, 1995.

19. Steiner RD, **Evans** JP, Uemichi T, Paunio T, and Benson MD. Familial amyloidosis, Finish type, in three generations of a Swedish-American family is caused by asparaginase substitution for aspartic acid at gelson residue 187. Human Genetics. 95:327-330, 1995.

20. **Evans JP**, Burke W, Chen R, Bennett R, Schmidt R, Dellinger EP, Kimmey M, Crispin D, Brentnall TA, and Byrd DA. Familial pancreatic adenocarcinoma: association with diabetics and exocrine insufficiency and early molecular diagnosis. Journal of Medical Genetics. 32:330-335, 1995.

21. Crackower MA, Scherer SW, Rommens JM, Hui CC, Poorkaj P, Soder S, Cobben JM, Hudgins L, **Evans JP**, Tsui LC. Characterization of the split hand/split foot malformation locus SHFM1 at 7q21.3-q22.1 and analysis of a candidate gene for its expression during limb development. Human Molecular Genetics. 5(5): 571-9, 1996 May.

22. Nunes ME, Schutt G, Kapur RP, Luthardt F, Kukolich M, Byers P, **Evans JP**. A second autosomal split hand/split foot locus maps to chromosome 10q24-q25. Human Molecular Genetics. 4(11): 2165-70, 1995 Nov.

23. Scherer SW, Heng HH, Robinson GW, Mahon KA, **Evans JP**, Tsui LC. Assignment of the human homolog of mouse D1x3 to chromosome 17q21.3-q22 by analysis of somatic cells hybrids and fluorescence in situ hybridization. Mammalian Genome. 6(4):310-1, 1995 Apr.

24. Brentnall TA, Rubin CE, Crispin DA, Stevens A, Batchelor RH, Haggitt RC, Bronner MP, **Evans JP**, McCahill LE, Bilir N, et al. A germline substitution in the human MSH2 gene is associated with high-grade dysplasia and cancer in ulcerative colitis. Gastroenterology. 109(1):151-5, 1995 Jul.

25. **Evans JP**. Genomics: Delayed Reaction. Hospitals and Health Networks, 74 (12):42-44. 2000

26. Hadler N & **Evans JP**. Medicalization of the Genome. Commentary in Current Anthropology, 42 (2):252-253. 2001

27. **Evans JP**, Skrzynia C, Burke W. The complexities of predictive genetic testing. British Medical Journal. 322: 1052-1056. 2001

28. Finkler K, Skrzynia C, **Evans JP.** The new genetics and its consequences for family, kinship, medicine, and medical genetics. Social Science and Medicine; 57(3): 403-412. 2003

29. Burke W, Acheson L, Botkin J, Bridges K, Davis A, **Evans JP** et al. Genetics in Primary Care: A USA Faculty Development Initiative. Community Genetics 5:138-146. 2002

30. McKelvey K and **Evans JP**. Cancer Genetics in the Primary Care Setting. J. of Nutrition. 133:3767S-3772S. 2003

31. Moorman P, Calingaert B, **Evans JP**, Hoyo C, Newman B, Skinner C, Sorenson J, Schildkraut J. Racial Differences in Enrollment in a Cancer Genetics Registry; Cancer Epidemiology, Biomarkers and Prevention; 13(8): 1349-1354. 2004.

32. Barrows DO, Shockley WW, Wright JD, Susswein L, **Evans JP**, Funkhouser WK and Loechner KJ. Metastatic Medullary Thyroid Cancer in a Pediatric Patient with MEN 2B; In Press 2005.

33. Li T, Lange LA, Li X, Susswein L, Bryant B, Malone R, Lange E, Huang T-Y, Stafford D and **Evans JP**. Polymorphisms in the VKOR gene are strongly associated with warfarin dosage requirements in patients receiving anticoagulation. In press, Journal of Medical Genetics, April 2006.

Other

Evans JP. "Banking on DNA for Better Treatment" an exploration of the potential benefits and ethical quandaries associated with public DNA databanks. Op-ed article; Raleigh News and Observer; July 6, 2003

Evans JP. Refocusing the debate between Evolution and Intelligent Design. Op-ed article; Raleigh News and Observer; June 12, 2005

Evans JP, Susswein L, Skrzynia C. Book chapter; "Genetics and the Law", an American Bar Association Text entitled *Jurisprudent Science.* To be published in 2006

Evans JP, Skrzynia C, Harlan M, Susswein L. Book chapter; "Breast Cancer Genetics" *in The Young Woman with Breast Cance*". To be published in 2006.

Co-Editor, Principles of Molecular Medicine. 2nd Edition release date scheduled for January 2006.

Selected Abstracts:

1. Plapp FV, **Evans JP**, and Tilzer LL. Detection of Rh (D) antigen on the inner surface of Rh negative erythrocyte membranes. Fed Proc. 39:547, 1980.

2. Plapp FV, **Evans JP**, Tilzer LL, and Chiga M. Quantification of Rh (D) antigen on the inner and outer membrane surfaces of Rh positive and negative erythrocytes. 16th Congress of the International Society of Blood Transfusion, August, 1980.

3. **Evans JP**, Plapp FV, Tilzer LL, Beck M, and Chiga M. Rd (D) and LW antigen content of Rh erythrocytes. Transfusion. 20:618, 1980.

4. Stone DL, Tilzer LL, Plapp FV, **Evans JP**, and Chiga M. Steroid receptor proteins in human meningiomas. Fed. Proc. 40:787, 1981.

5. Sinor LT, **Evans JP**, Brown PJ, Tilzer LL, and Plapp FV. Detection of Rh (D) antigen in polyacrylamide gels by an enzyme linked antiglobulin technique. Fed. Pro. 40:825, 1981.

6. Plapp FV, Brown PJ, Sinor LT, **Evans JP**, and Tilzer LL. The Rh (D) antigen is a dicyclohexylacarbodiimide binding protein. Transfusion. 21:601, 1981.

7. **Evans JP**, Brown PJ, Sinor LT, Tilzer LL, and Plapp FV. The interaction of the Rh (D) and rh (E) antigens. Transfusions 21:629, 1981.

8. Sinor LT, **Evans JP**, Tilzer LL, and Plapp FV. Increased Ca++ influx and osmotic fragility in RBCs treated with anti-Rh (D) IgG. Fed Proc. 41:939, 1982.

9. Sinor FV, **Evans JP**, Brown PJ, Sinor LT, and Tilzer LL. The Rh (D) antigen is a proteolipid. Fed Proc. 41:959, 1982.

10. **Evans JP**, Brown PJ, Sinor LT, and Plapp FV. Detection of a protein on the inner surface of Rh negative erythrocytes which binds anti-D IgG. Transfusion. 22(5):426, 1982.

11. Sinor LT, **Evans JP**, Brown PJ, and Plapp FV. Further evidence of an anti-D binding protein of the inner membrane surface of Rh negative RBCs. Transfusion. 22(5):426, 1982.

12. High KA, **Evans JP**, Ware JL, Stafford DW, and Roberts HR. Hemophilia B in canines is due to a post-transcriptional defect. Thrombosis and Hemostatis. 58(1):337, 1987.

13. Watzke HH, **Evans JP**, Roberts HR, Stafford DW, and High KA. Molecular cloning of a full length cDNA for canine F.IX. Clinical Research. 36:412A, 19988.

14. **Evans JP**, Brinkhous KM, Brayer GD, High KA. Characterization for the molecular defect in canine Hemophilia B. XIIth Congree of the International Society on Thrombosis and Hemostasis, Tokyo, Japan, August 19-25, 1989.

15. **Evans JP**, Palmiter RD. Characterization of the mouse L1 promoter. American Journal of Human Genetics. 47(3):A432, 1990.

16. Burke W, Bennet RL, Schmidt R, Delinger P, **Evans JP**. Autosomal dominant transmission of pancreatic cancer with diabetes and exocrine insufficiency in a large kindred. American Journal of Human Genetics. 51(4):A191,1990.

17. **Evans JP**, Brinster R, Harendza C, Palmiter RD. Control of mouse L1 expression during malignant transformation and cellular differentiation. American Journal of Human Genetics. 51(4):A199, 1990.

18. Brentnall T, Crispin D, Byrd D, Kimmey M, Haggitt R, Rabinovitch P, Burke W, **Evans J**, Burner G. K-ras mutations detected in pancreatic fluid not diagnosed by conventional methods. Gastroenterology. 104:A296, 1993.

19. **Evans JP**, Patton MA, Homfray T, and Jarvik G. Demonstration of segregation distortion in a human disorder: analysis of split hand/split foot malformation. American Journal of Human Genetics. 105:A342, 1994.

20. Rohlfs EM, Skrzynia C, **Evans JP**, Yang Q, Booker JK, Silverman LM, Graham ML. Characteristics of a breast cancer clinic population tested for mutations in BRCA1/2. 2003.

21. Skrzynia C, Graham M, Rohlfs EM, Silverman LM, Evans JP. Prophylactic Surgery to Reduce Cancer Risk: Attitudes Before and After the Availability of Genetic Testing2004. Am J. Human Genetics

22. Evans JP, Graham M, Rohlfs EM, Silverman L, Skrzynia C. Four Years of Experience in a High-Risk Cancer Genetics Clinic: Lessons Learned. 2005, Am J. Human Genetics

23. Susswein LR, , Skrzynia C, Lange LA, Lewis CL, Graham ML, Evans JP. BRCA genetic testing and race: the UNC experience. Breast Ca Res Treat 94, Supplement 1:S25 (Abstract 108); 2005.

Selected Invited Lectures and Appointments

1. Molecular Genetics in Clinical Medicine, North Carolina Medical Society, *Sea Island, Georgia*, 10/88.
2. Split Hand/Split Foot malformation: Genetic and molecular aspects. Genetic Grand Rounds, Hospital for Sick Children, University of Toronto, *Toronto, Canada*, 1/27/93.
3. Progress toward cloning the split hand/ split foot gene. Genetics Research Seminar, Hospital for Sick Children University of Toronto, *Toronto, Canada*, 1/27/93.
4. Progress toward cloning the split hand/split foot gene, Grand Rounds, McMaster University, *Hamilton, Ontario, Canada*, 1/28/93.
5. The use of positional cloning techniques to isolate human development genes. *Maarburg, Germany*, 5/20/93.

6. The Genetics of Cancer. Medical Grand Rounds, University of Washington, 4/15/93.
7. A positional cloning approach to the isolation of human developmental genes. The University of North Carolina, *Chapel Hill, North Carolina*, 7/14/93.
8. Chair of session at The American Society of Human Genetics: "Gene Regulation"
9. Progress toward isolation the split hand/ split foot gene. Duke University Medical Center, *Durham, North Carolina*, 12/23/93.
10. A Positional Cloning approach to the isolation of genes involved in pattern formation in the human embryo. National Teratology Society, *Puerto Rico*, 6/26/94 to 7/1/94.
11. Member, NIH consensus committee on genetic testing for cystic fibrosis. April, 1997
12. What's a Mother To Do? Ethical dilemmas in gentic testing, assisted reproduction, and human cloning. Given to the NC Society for Ethical Culture, March, 1999.
13. Thomas Jefferson, Sally Hemmings, Sex, and the Presidency. Invited UNC Faculty Seminar, April 1999
14. How do we teach primary care doctors about genetics? Meeting of the Association of Family Practice Physicians and The Council on Genetics and Primary Care. Bethesda, September 1999.
15. The Spectrum of Utility in Genetic Testing. Meeting of the Association of Family Practice Physicians and The Council on Genetics and Primary Care. Chicago, 2000.
16. Genetics and Free Will. Adventures in Ideas, UNC Humanities Seminar, February 2001
17. Genetics in Primary Care and Human Genome Update, Society of US Air Force Physicians, Buloxi, Mississippi, March, 2001
18. Genetic testing in medicine. NC state legislature subcommittee. 1001
19. Genetics in Primary Care. Peruvian Society of Internal Medicine, 10-02
20. Secretary of Health and Human Services Advisory Committee on Genetic Testing, Washington DC 5-02
21. Genetics in Primary Care. Society of General Internal Medicine, 5-02
22. Genetic Testing. Blue Cross Blue Shield Advisory Board, 8-02
23. Visiting Professor; Department of Medicine; University of Hawaii, 2-03
24. Testimony to The North Carolina Legislature regarding DNA banking, 5-03
25. United Nations Conference 3-04 (see below under "Special International Activities").
26. Advisor to NC legislature Committee on Science and Technology regarding emerging issues in Genetics and Medicine; March 2005

Invited Book Reviews

Book Review, 1994. Dealing with Genes: The Language of Heredity by Paul Berg and Maxine Singer. American Journal of Human Genetics. 55:595.

Special International Activities

Senior Fellow for the Einstein Institute for Science, Health, and the Courts. Senior faculty member and organizer of forums to teach high court judges about genetics and its broad impact on society. Such forums are international in scope and include the education of Supreme Court justices from numerous nations.

Chief Scientific Officer for "Genetics and the Law"; held for the Federal Court of Australia 9-03

Organizer and participant for a United Nations conference held in Concepción, Chile, in March of 2004. Delegates from 82 nations attended to address global disparities in the use of biotechnology.