

CURRICULUM VITAE

M. J. FINLEY AUSTIN, Ph.D.

EDUCATION

Ph.D. Human Genetics, Virginia Commonwealth University/Medical College of Virginia
B.S. Psychology with Honors, Virginia Commonwealth University

EMPLOYMENT/FELLOWSHIPS

July 2001 - current	Hoffmann-La Roche, Director, Public Policy.
Dec. 1999 – July 2001	Hoffmann-La Roche, Assistant Director, Public Policy.
April 1999 – Nov. 1999	Brigham & Women’s Hospital, <i>Physiological Genomics</i> , Deputy Editor.
Mar. 1997 - Mar. 1999	Merck Genome Research Institute, Administrative Director.
Aug. 1995 - Feb. 1997	Burroughs Wellcome Fund, Program Officer, Pharmacology/Toxicology, Experimental Therapeutics and Infectious Disease Research.
	American Association for the Advancement of Science - Science and Diplomacy Fellow, USAID, Office of Research and Policy & Program Coordination.
	Postdoctoral Fellow, VCU-MCV, Department of Pharmacology & Toxicology.
	Graduate Assistant, VCU-MCV, Department of Human Genetics.
Feb. 1982-Aug. 1984	Laboratory Technician, VCU-MCV, Department of Pharmacology & Toxicology, and Department of Physiology & Biophysics.
June 1979-Jan. 1982	Intake Interviewer, Crisis Intervention Project, City of Richmond Department of Mental Health and Mental Retardation.

ADVISORY & COMMITTEE WORK

- ◆ Personalized Medicine Coalition, Board, current.
- ◆ American Society for Human Genetics Liaison with Industry Committee, current.
- ◆ Universities of Louisville and Montreal Genetics and Society Project, Gene Banking Study, 2002.
- ◆ Roche Biomarker Program and Public Policy and Communications Workgroup, 2003 – current.
- ◆ Roche Joint Program in Applied Genomics (JPAG), Executive Committee, 2001 – 2003.
- ◆ Roche JPAG Public Policy and IP Work Group, Chair, 2001 – 2003.
- ◆ National Human Research Protection Advisory Committee, 3rd Party/Genetics Work Group Consultant, 2001 - 2002.
- ◆ National Coalition for Health Professional Education in Genetics, Roche representative, current.
- ◆ PhRMA, Pharmacogenomics Working Group, 2000 - current.
- ◆ BIO, Bioethics and IP Committees, 2000 - current.
- ◆ The Genome Action Coalition, Steering Committee, 2000 - 2003.
- ◆ Rutgers University, Structural Genomics Program, Scientific Advisory Board, 1999 - 2001.
- ◆ Canadian Bioinformatics Network, Advisor, 2000.
- ◆ Public Radio International, *The World*, a news magazine, Science and Technology Advisor, 1999 - 2000.
- ◆ U.S. House of Representatives Science Subcommittee, by invitation of The Honorable Vernon J. Ehlers, National Science Policy Study Roundtable, 1997.
- ◆ *Science* magazine's Next Wave web site, Board of Advisors, 1997 - 2001.
- ◆ Commission on Professionals in Science and Technology, Member Board of Directors, 1997.
- ◆ AAAS Special Task Force on the Employment Concerns of Young Scientists, 1996.
- ◆ USAID Agency Research Council Working Group, 1993 - 1995.
- ◆ USAID Interim Biotechnology, Biosafety and Bioethics Committee, 1994 - 1995.
- ◆ Human Subjects Research Subcommittee, Committee on Health, Safety and Food Research, National Science and Technology Council, USAID Fellow Participant, 1994 - 1995.

MEETINGS & WORKSHOPS ORGANIZED

- ◆ BIO 2001 Annual Meeting, Good Bioethics is Good Business: Formal Industry Approaches, June 2001.
- ◆ Banbury Conference on Integrating Genomics Technologies in Healthcare: Practical and Policy Challenges, February 2001.
- ◆ Banbury Conference on Functional Genomics Technology Development and Application, April 1999.
- ◆ Functional Genomics: New Technologies for a New Era in Human Genetics, Workshop as part of the American Society of Human Genetics Annual Meeting 1998.
- ◆ Banbury Conference on Full Length cDNA Cloning Technology, March 1998.

HONORS AND AWARDS

- ◆ Alumna of the Year, VCU Department of Psychology
- ◆ National Research Service Award (Individual Postdoctoral Fellowship, from the National Cancer Institute.
- ◆ Honorable Mention, John C. Forbes Day Research Competition, Medical College of Virginia.
- ◆ Graduate Assistantship, VCU-MCV, NIH Training Grant and State Funds.
- ◆ Laurels Honor Society, Virginia Commonwealth University.
- ◆ Psi-Chi Psychology Honor Society, Virginia Commonwealth University.

PROFESSIONAL SOCIETIES

- ◆ 1988 - current American Association for the Advancement of Science (AAAS)
- ◆ 1986 - current American Society of Human Genetics

TEACHING, LECTURES and VOLUNTEER WORK

- ◆ University of Medicine and Dentistry of New Jersey, Molecules to Medicine, 2003
- ◆ Montclair Adult School, 2001.
- ◆ Merck Institute for Science Education, 1997 – 1999.
- ◆ Williamsburg Middle School and Yorktown High School, Arlington, VA, Science Fairs Judge, 1995.
- ◆ Science-By-Mail Volunteer Scientist, 1992-1993.
- ◆ Project Advisor for Graduate Student Laboratory Rotation, 1991.
- ◆ Mentor in the Governor's School Summer Program, 1990.
- ◆ Lecturer: High School Explorers Program (2 semesters) Introduction to Human Genetics 501 (5 semesters) Genetics Enrichment Course 502 (2 semesters) Dental McKusicks 531 (1 semester) Biochemical Pharmacology 625 (1 semester).

PUBLICATIONS

Thesis

Aphidicolin-inducible Common Chromosomal Fragile Sites: A Proposed Model of Induction.

Research Papers

Robinson, S.E., **Austin, M.J.F.** and Gibbens, D.: The Role of Serotonergic Neurons in Dorsal Raphe, Median Raphe, and Anterior Hypothalamic Pressor Mechanisms. *Neuropharmacology*, 24(1), 51-58, **1985**.

Austin, M.J.F.: Expression of Common Fragile Sites on the X Chromosome Corresponds with Active Gene Regions. *Cancer Genet. Cytogenet.*, 54(1), 71-76, **1991**.

Povirk, L.F. and **Austin, M.J.F.**: Genotoxicity of Bleomycin. *Mutation Res.*, 257, 127-143, **1991**.

Austin, M.J.F., Collins, J.M., Corey, L.A., Nance, W.E., Neale, M.C., Schieken, R.M. and Brown, J.A.: Aphidicolin-inducible Common Fragile Site Expression: Results from a population survey in twins. *Am. J. Hum. Genet.*, 50(1), 76-83, **1992**.

Austin, M.J.F., Han, Y. and Povirk, L.F.: DNA Sequence Analysis of Mutations Induced by Melphalan in the CHO *aprt* Locus. *Cancer Genet. Cytogenet.*, 64, 69-74, **1992**.

Austin, M.J.F., Neale, M.C., Corey, L.A., Nance, W.E., Schieken, R.M. and Brown, J.A.: Common Fragile Site Expression in Lymphocytes from an Individual Mosaic for Trisomy 8. *Am. J. Med. Genet.*, 45, 570-571, **1993**.

Han Y., **Austin, M.J.F.**, Pommier, Y. and Povirk, L.F.: Small Deletion and Insertion Mutations Induced by the Topoisomerase II Inhibitor Teniposide in CHO Cells and Comparison with Sites of Drug-stimulated Cleavage *in Vitro*. *J. Molecular Biol.*, 229, 52-66, **1993**.

Research Papers (continued)

Povirk, L.F., Bennett, R.A.O., Wang, P., Swerdlow, P.S. and **Austin, M.J.F.**: Single Base Pair Deletions Induced by Bleomycin at Potential Double-strand Cleavage Sites in the *aprt* Gene of Stationary Phase CHO-D422 Cells. *J. Molec. Biol.*, 243, 216-226, **1994**.

Austin, M.J.F., Bunch, R.T. and Povirk, L.F.: Selective Damage to the Active X Chromosome by Camptothecin and Amsacrine as Determined by an Allele-specific Alkaline Unwinding Assay. *Biochem. Pharmacology*, 50, 1317-1319, **1995**.

Research Abstracts

Robinson, S.E., **Austin, M.J.F.** and Shamel, D.: Effect of Specific Lesion of Serotonergic Neurons in the Dorsal Raphe Nucleus and Median Raphe Nucleus on the Pressor Response to Electrical Stimulation. *Soc. Neuroscience Abstr.*, 8, 267, 1982.

Robinson, S.E., Shamel, D. and **Austin, M.J.F.**: Alphaadrenergic Pressor Effect in the Dorsal Raphe Nucleus of the Rat. *Fed. Proc.*, 42, 494, 1983.

Robinson, S.E., **Austin, M.J.F.**, and Shamel, D.: Cardiovascular Effects of Injection of a GABA Agonist in the Rat Dorsal Raphe Nucleus. *The Pharmacologist*, 25, 146, 1983.

Robinson, S.E., Shamel, D. and **Austin, M.J.F.**: Contribution of the Dorsal Noradrenergic Bundle to the Effect of Amphetamine on the Turnover Rate of Acetylcholine (TR_{ACH}) in the Hippocampus and the Cortex of the Rat. *Soc. Neuroscience Abstr.*, 9, 1127, 1983.

Austin, M.J.F., Martin, N.G. and Heath, A.C.: Detection of Genotype x Environment Interaction in Dysmenorrhea. *Am. J. Hum. Genet.*, 37(4)supp., A3, 1985.

Austin, M.J.F., Corey, L.A., Collins, J.M., Schieken, R.M. and Brown, J.A.: General and Specific Enhancement of Common Fragile Site Expression in Lymphocyte Chromosomes Exposed to Aphidicolin and Low Dose Caffeine. *Am. J. Hum. Genet.*, 43(3)supp., 1988.

Austin, M.J.F., Neale, M.C., Corey, L.A., Nance, W.E., Collins, J.M., Schieken, R.M. and Brown, J.A.: Common Chromosomal Fragile Sites: A population study in twins. *Acta Geneticae et Medicae Gamellelogiae: Twin Research*, 38, 1989.

Austin, M.J.F., Neale, M.C., Corey, L.A., Schieken, R.M., Collins, J.M., Nance, W.E. and Brown, J.A.: X-inactivation Causes Differences in FRA(XC)*CQ22.1 Expression: Evidence from a population study in twins. *Am. J. Hum. Genet.*, 45(4)supp., A100, 1989.

Austin, M.J.F., Han, Y. and Povirk, L.F.: Analysis of Melphalan-induced Mutations in Mammalian Cells. *Proc. AACR*, 32, 101, 1991.

Han, Y., **Austin, M.J.F.** and Povirk, L.F.: Mutational Specificity of VM-26 in Hamster Cells. *Proc. AACR*, 32, 429, 1991.

Austin, M.J.F., Han, Y. and Povirk, L.F.: Sequence Analysis of Melphalan-induced Mutations in Mammalian Cells. *Proc. Intl. Cong. Hum. Genet.*, 49, 446, 1991.

Research Abstracts (continued)

Bauer, G.B., **Austin, M.J.F.**, Wang, P. and Povirk, L.F.: Adducts Formed at DNA Sequences which are Frequent Sites of Melphalan-induced Mutations. *Proc. AACR*, 33, 847, 1992.

Austin, M.J.F., Bunch, R.T. and Povirk, L.F.: PCR Quantification of Allele-specific DNA Damage and Repair at an X-linked Locus in Normal Human Female Lymphoblastoid Cells. *Proc. AACR*, 34, 4, 1993.

Bennett, R.A.O., **Austin, M.J.F.** and Povirk, L.F.: Small Deletion Mutations Induced by Bleomycin in CHO Cells May Result From Rejoining of DNA Double-strand Breaks (DSB). *Proc. AACR*, 34,4,1993.

Austin, M.J.F., Bunch, R.T. and Povirk, L.F.: Effect of Gene Activity on mAMSA-induced DNA Strand Breaks: Assessment of Allele-specific Damage at an X-linked Locus in Human Female Cells. *Environ. Mutagen. Soc. Abstrt.*, 21(22)supp., 4, 1993.

Austin, M.J.F., Bunch, R.T., Smith, B. and Povirk, L.F.: X-inactivation Inhibits DNA Damage Induced by Antineoplastic agents: PCR Quantification of Allele-specific DNA Damage at G6PD in Lymphoblastoid Cells from a Normal Female A/B Heterozygote. *Am. J. Hum. Genet.*, 53, (3 supp), 270, 1993.

Wang, P., **Austin, M.J.F.**, and Povirk, L.F.: Neocarzinostatin (NCS) induces base substitutions and very small deletions in stationery phase CHO cells. *Proc. AACR.*, 35, 641, 1994.

Bauer, G.B., **Austin, M.J.F.** and Povirk, L.F.: Kinetic studies and molecular modeling of nitrogen mustard interstrand and intrastrand crosslinked adducts formed at a GGC sequence. *Proc. AACR*, 35, 107, 1994.

Book Chapter

“Research Funding Administration: Matching Money with Research” in *Alternative Careers in Science: Leaving the Ivory Tower* edited by Cynthia Robbins-Roth, Academic Press, 1998.

Meeting Reports

Austin, M.J. Finley and Kreiner, Thane: Integrating Genomics Technologies in Health Care: Practice and Policy Challenges and Opportunities. November 2001, *Physiological Genomics*, 8: 33-40, 2002.

Strausberg, Robert L. and **Austin, M.J. Finley**: Functional Genomics: Technological Challenges and Opportunities. *Physiological Genomics*, 1: 25-32, 1999, (<http://www.physiolgenomics.org>).

Editorials & Letters

M.J. Finley Austin: *Science's Next Wave* (*Science* magazine's interactive web site), October 1995, *Embarking On An Alternative Career*, included in a forum on "Training Scientists for 21st Century Careers" which included contributions by Bruce Alberts, Bruce Altrock, Kevin Aylesworth, Floyd Bloom, David Goodstein, James McGroddy and The Honorable Steven Schiff.

Enriqueta Bond and **M.J. Finley Austin**: Funding Sequencing Efforts. *Science*, 275(5303),1051-2, 1997.

Editorials & Letters (continued)

Victor J. Dzau, **M.J. Finley Austin**, Patrick O. Brown, Allen Cowley, David Housman, Richard Mulligan and Robert Rosenberg: Physiological Genomics: Revolution and Renaissance. *Physiological Genomics*, 1: 1-2, 1999, (<http://www.physiolgenomics.org>).

Victor Dzau, Martin Frank, Margaret Reich, **M. J. Finley Austin**, Ruedi Aebersold, Allen Cowley, David Housman, Richard Mulligan, and Robert Rosenberg: Constants and scientific progress. *Physiol. Genomics*, 1: 107, 1999, (<http://www.physiolgenomics.org>).

INVITED LECTURES/PANELIST/MODERATOR

ASHG Annual Meeting, October 2003, *The Genome and Evolving Public Policy*.

BIO Annual Meeting, June 2003, *Human Subject Protection: Compliance Challenges and New Paradigms and The Genetic Contribution to Moral Dilemmas*.

AAAS Annual Meeting, February 2003, *The Genome Hype: Revolution or Evolution in Clinical Development and Medicine?*

AAAS Fellows Delegation to Switzerland, October 2002, *Executive Workshop on Innovation* and presented an U.S. Overview of Stem Cell Policy in a *Forum on Stem Cell Research*.

American Society for Human Genetics Annual Meeting, October 2002, *Human Subjects, Third Parties and Informed Consent: Defining third parties: the view from the private sector*.

Greater Baltimore Medical Center, 5th Annual Harvey Genetics Colloquium, January 2002, *Pharmacogenomics: Changing the Practice of Medicine?*.

National Conference of State Legislatures - Forum on Genetics, Policy and Law, October 2001, *Pharmacogenomics: Drug Development and Health*.

BIO Annual Meeting, June 2001, *Roche Genetics: Science and Ethics*.

Genetic Alliance – People's Genome Celebration, June 2001, *Your Genome Your Health*.

American Pharmaceutical Association, March 2001 Meeting, *Pharmacogenomics: Overview and Impact on Drug Development*.

Southeastern Regional Genetics Group, Spring 2000 Meeting, *Incorporating Genomics into Drug Discovery and Development: Protections and Incentives*.

After the Genome V, Autumn 1999, Led panel on Policies and Institutional Structures Necessary for Genomics Research.

Genetic Toxicology Association, Spring 1998 Meeting, *New Technologies to Speed Functional Associations of DNA Sequences*.

University of Louisville, Spring 1998, Science Careers Symposium.

INVITED LECTURES/PANELIST/MODERATOR (continued)

American Association for the Advancement of Science Annual Meeting, February 1998, Presented in two career development seminars.

American Association for the Advancement of Science Annual Meeting, February 1997, Caucus Moderator, *Is There a Science Career for me?*; Planned and presented in two career development seminars, *New Directions: Maps to Diverse Careers in Science*.

University of California System-wide Biotechnology Research and Education Program, October 1996, Symposium, *Meeting the Challenge: Graduate Education in the 21st Century*.

Commission on Professionals in Science and Technology, September 1996, Ninth Biennial Science & Technology Symposia, *An Era of New National Priorities: Implications for Science & Technical Human Resources*.

National Institute of Environmental Health Sciences, July 1996, *Alternative Careers for Science Ph.D.s: How to Get There From Here*.

National Academy of Sciences, June 1996, Convocation on Science and Engineering Doctoral Education, Panel I: *Perspectives on the Changes Most Needed in Doctoral Science and Engineering Education*.

Vanderbilt University, May 1996, *Diversity of Career Paths for Ph.D.s in the Sciences: A Hitchhikers Guide to Exploring the Options*.

University of California at San Francisco, February 1996, *Strategies for Survival in Science: Tips for Traditional and Non-traditional Career Seekers*.

American Association for the Advancement of Science Annual Meeting, February 1996, *Is There a Science Career for me?*, a career development caucus; and presented in a career development seminar, *New Directions: Transitions to Alternative Careers*.

Estonia and Ukraine, April 1994, Represented USAID Programs, Grant writing workshops (administered by AAAS with a grant from NSF) for scientists and administrators from various fields, institutes and academies of Former Soviet Union countries.

Coriell Institute for Medical Research, October 1992, *DNA Sequence Specific Mutations Induced by the Chemotherapeutic Agent Melphalan*.

VCU-MCV, Department of Microbiology and Immunology, June 1992, Mini-symposium on Applications and Techniques of Polymerase Chain Reaction, *Amplification and Sequencing of aprt Mutants from Mammalian Genomic DNA*.

New York City Blood Center, Department of Human Genetics, November 1991, *Melphalan Mutagenesis in an Endogenous Mammalian Gene*.