

CURRICULUM VITA

2005

NAME: David M. Gilliam

POSITION: Professor
Psychology Department
College of Education and Behavioral Sciences
University of Northern Colorado
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EDUCATION:

<u>YEAR</u>	<u>DEGREE</u>	<u>INSTITUTION</u>	<u>AREA OF STUDY</u>
1983-1985	Postdoctoral Fellow	State University of New York at Albany.	Alcohol-related Birth Defects.
May 1983	Ph.D.	University of Colorado, Boulder.	Major - Psychology. Minor - Pharmacology.
May 1979	M.A.	University of Colorado, Boulder.	Major - Psychology. Minor - Biology.
June 1974	B.S.	Emory University, Atlanta, Georgia.	Major - Biology.

WORK EXPERIENCE:

<u>YEAR</u>	<u>ORGANIZATION</u>	<u>POSITION</u>	<u>RESPONSIBILITIES</u>
2000-Present	Department of Psychology, University of Northern Colorado, Greeley, Colorado	Professor	Teaching, Research, Service
1995-2000	Department of Psychology, University of Northern Colorado, Greeley, Colorado	Associate Professor	Teaching, Research, Service
1990-1995	Department of Psychology, University of Northern Colorado, Greeley, Colorado.	Assistant Professor	Teaching, Research, Service
1986-1989	Center For Behavioral Teratology State University of New York at Albany, Albany, New York.	Assistant Professor	Research
1985-1990	Department of Psychology, State University of New York at Albany, Albany, New York.	Adjunct Faculty	Teaching and Research
1989	Department of Psychology, Siena College, Loudonville, New York.	Instructor	Teaching
1985-1986	Department of Psychology, Russell Sage College, Troy, New York.	Adjunct Faculty and Instructor	Teaching and Research
1983-1985	Department of Psychology, State University of New York at Albany, Albany, New York.	Post-doctoral Research Fellow	Research
1979-1983	Center for Alcohol Studies and Institute for Behavioral Genetics, University of Colorado, Boulder, Colorado.	Research Assistant	Research
1976-1979	Psychology Department, University of Colorado, Boulder, Colorado.	Teaching Assistant	Teaching

AREA OF SPECIALIZATION:

Classical and Behavioral Teratology

RESEARCH AREAS AND RESEARCH INTERESTS:

Animal models of prenatal drug exposure;
Classical teratological morphological analysis;
Behavioral and physiological consequences of acute and chronic drug administration;
Behavioral and circadian pharmacokinetics;
Learning deficits in behavioral teratology; and
Ethanol-prostaglandin interactions.

PUBLICATIONS:

Brosnan-Watters, G., Ogimi, T. Ford, D., Tatekawa, L., Gilliam, D., Bilsky, E.J., & Nash, D. Differential effects of MK-801 on cerebrocortical neuronal injury in C57BL/6J, NSA, and ICR mice. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2000, 24, 925-938.

Gulley, J.M., Billman, S.P., Gilliam, D.M., & George, F.R. Operant self-administration of ethanol in mice prenatally exposed to cocaine. Journal of Addictive Diseases, 1999, 18, 77-89.

Downing, C. & Gilliam, D. Cytoplasmic factors do not contribute to a maternal effect on ethanol teratogenesis. Behavior Genetics, 1999, 29, 31-39.

Ford, D.F. (*Faculty Mentor: D. Gilliam*). A comparison of Male C57BL/6, ICR and NSA Mice on a spatial learning task. McNair Scholars Journal, 1998, 3, 54.

Gilliam, D.M., Mantle, M.A., Barkhausen, D.A., & Tweden, D.R. Effects of acute prenatal ethanol administration in a reciprocal cross of C57BL/6J and Short-Sleep mice: Maternal effects and nonmaternal factors. Alcoholism: Clinical and Experimental Research, 1997, 21, 28-34.

Boehm, S.L. II, Lundahl, K.R., Caldwell, J., & Gilliam, D.M. Ethanol teratogenesis in the C57BL/6J, DBA/2J, and A/J inbred mouse strains. Alcohol, 1997, 14, 389-395.

Gilliam, D.M., & Kotch, L.E. Dose-related growth deficits in LS but not SS mice prenatally exposed to alcohol. Alcohol, 1996, 13, 47-51.

Miller, M.W., Waziri, R., Baruah, S., & Gilliam, D.M. Long-term consequences of prenatal cocaine exposure on biogenic amines in brains of mice: The role of sex. Developmental Brain Research, 1995, 87, 22-28.

PUBLICATIONS: (continued)

- Dudek, B.C., Yi, D.K., Gilliam, D.M., & Irtenkauf, K.T. Comparisons of subcolonies of selectively bred Long-Sleep and Short-Sleep mice. Behavior Genetics, 1993, 23, 245-250.
- Gilliam, D.M., & Kotch, L.E. Developmental thermoregulatory deficits in prenatal ethanol exposed Long- and Short-sleep mice. Developmental Psychobiology, 1992, 25, 365-373.
- Gilliam, D.M., & Kotch, L.E. Alcohol-related birth defects in Long- and Short-Sleep mice: Postnatal litter mortality. Alcohol, 1990, 7, 483-487.
- Gilliam, D.M., & Irtenkauf, K.J. Maternal genetic effects on ethanol teratogenesis and dominance of relative embryonic resistance to malformations. Alcoholism: Clinical and Experimental Research, 1990, 14, 539-545.
- Gilliam, D.M., Dudek, B.C., & Riley, E.P. Responses to ethanol challenge in Long- and Short-Sleep mice prenatally exposed to alcohol. Alcohol, 1990, 7, 1-5.
- Goodlett, C.R., Gilliam, D.M., Nichols, J.M., & West, J.R. Genetic influences on brain growth restriction induced by developmental exposure to alcohol. NeuroToxicology, 1989, 10, 587-600.
- Gilliam, D.M. Alcohol absorption rate affects hypothermic response in mice: Evidence for rapid tolerance. Alcohol, 1989, 6, 357-362.
- Gilliam, D.M., Kotch, L.E., Dudek, B.C., & Riley, E.P. Ethanol teratogenesis in selectively bred Long-Sleep and Short-Sleep mice: A comparison to inbred C57BL/6J mice. Alcoholism: Clinical and Experimental Research, 1989, 13, 667-672.
- Gilliam, D.M., Kotch, L.E., Dudek, B.C., & Riley, E.P. Ethanol teratogenesis in mice selected for differences in alcohol sensitivity. Alcohol, 1988, 5, 513-519.
- Gilliam, D.M., Isaacson, R.L., Burrig, R.G., Johnston, J.E., Fahey, J.M., & Vargas, D. Nimodipine's effect on alcohol disposition in mice. Alcohol, 1988, 5, 259-261.
- Gilliam, D.M., Stilman, A., Dudek, B.C., & Riley, E.P. Fetal alcohol effects in Long- and Short-Sleep mice: Activity, passive avoidance, and *in utero* ethanol levels. Neurobehavioral Toxicology and Teratology, 1987, 9, 349-357.
- Gilliam, D.M., & Collins, A.C. Quantification of behavioral and physiological measures of alcohol withdrawal in Long-Sleep and Short-Sleep mice. Alcoholism: Clinical and Experimental Research, 1986, 10, 672-678.

PUBLICATIONS: (continued)

- Gilliam, D.M., Phillips, T.J., & Dudek, B.C. A comparison of ethanol absorption and narcosis in Long- and Short-Sleep mice following intraperitoneal or intragastric ethanol administration. Alcohol, 1985, 2, 655-658.
- Collins, A.C., Gilliam, D.M., & Minor, L.L. Indomethacin pretreatment blocks the effects of high concentrations of ethanol. Alcoholism: Clinical and Experimental Research, 1985, 9, 371-376.
- Gilliam, D.M., & Schlesinger, K. Nicotine-produced relearning deficit in C57BL/6J and DBA/2J mice. Psychopharmacology, 1985, 86, 291-295.
- Phillips, T.J., Gilliam, D.M., & Dudek, B.C. An evaluation of the role of ethanol clearance rate in the differential response of Long-Sleep and Short-Sleep mice to ethanol. Alcohol, 1984, 1, 373-378.
- Gilliam, D.M., & Collins, A.C. Concentration-dependent effects of ethanol in LS and SS mice. Alcoholism: Clinical and Experimental Research, 1983, 7, 337-342.
- Gilliam, D.M., & Collins, A.C. Differential effects of ethanol concentration on blood pH, PCO₂, and PO₂ in LS and SS mice. Physiology and Behavior, 1983, 30, 295-300.
- Gilliam, D.M., Bloedow, D.C., & Collins, A.C. Nonlinear pharmacokinetics of ethanol elimination in LS and SS mice. Alcoholism: Clinical and Experimental Research, 1983, 7, 95-99.
- Gilliam, D.M., & Collins, A.C. Circadian and genetic influences on tissue sensitivity and sleep time to ethanol. Pharmacology Biochemistry and Behavior, 1983, 18, 803-808.
- Gilliam, D.M. Physiological measures of alcohol withdrawal in mice. Dissertation Abstracts International 44 (4): 1274-B, 1983.
- Gilliam, D.M., & Collins, A.C. Circadian and genetic influence on ethanol elimination in LS and SS mice. Alcoholism: Clinical and Experimental Research, 1982, 6, 344-349.
- Gilliam, D.M., & Collins, A.C. Acute ethanol effects on blood pH, PCO₂, and PO₂ in LS and SS mice. Physiology and Behavior, 1982, 28, 879-883.

PROFESSIONAL PRESENTATIONS:

- Gilliam, D.M. & Smith, S. Preconception and prenatal exposure to ethanol: Effects on fetal facial morphology in mice. A preliminary report. Presented at the 76th Annual Meeting of the Colorado-Wyoming Academy of Science, Mesa State College, Grand Junction, CO, April 2005. Published as an abstract in the Program, Tri-Beta Biological Honor Society and the *Journal, Colorado-Wyoming Academy of Sciences*, 37, 7, 2005.
- Gilliam, D.M. & Roupe, K.A. Locomotor response to nicotine in prenatal alcohol exposed CD-1 mice. Poster, Society for Neuroscience, San Diego, CA, October, 2004. Program No. 913.12. 2004 Abstract Viewer Washington, DC: Society for Neuroscience.
- Hart, J. & Gilliam, D. Ethanol Teratogenesis in B6 and D2 Transferred Mouse Embryos. Presented at the 74th Annual Meeting of the Colorado-Wyoming Academy of Science, University of Northern Colorado, Greeley, CO, April 2003. Published as an abstract in the *Journal, Colorado-Wyoming Academy of Science*, 35, 15, 2003.
- Deganhart, N., Hart, J. & Gilliam, D. Limited ethanol teratogenic effects in NSA mice. Presented at the 73rd Annual Meeting Colorado-Wyoming Academy of Science, Mesa State College, Grand Junction, CO, April, 2002. Published as an abstract in the *Journal, Colorado-Wyoming Academy of Science*, 34, 12-13, 2002.
- Gilliam, D. Genetic-Environmental Interactions in Susceptibility to Fetal Alcohol Effects. Presented at the annual meeting of the Research Society on Alcoholism, Fetal Alcohol Syndrome Study Group; San Francisco, CA, June 27 – July 3, 2002.
- Gilliam, D.M. A model system to study nicotine-ethanol interactions during development. A poster presented at the Neurobiology of Alcoholism and Addiction Symposium. University of San Francisco Medical School & Ernest Gallo Clinic and Research Center, Emeryville, CA, April 26 & 27, 2001.
- Hart, J., Bensaadon, R., Roupe, K., Zook, N., & Gilliam, D. A comparison of ethanol teratogenesis in outbred CD-1 and inbred C57BL/6J mice. A paper presented at the 72nd Annual Meeting Colorado-Wyoming Academy of Science, University of Colorado, Colorado Springs, CO, April 7, 2001. Published as an abstract in the *Journal, Colorado-Wyoming Academy of Science*, 33, 15, 2001.
- Gilliam, D.M. & Huang, J.V. Sensitization to ethanol teratogenesis in mice. Poster presented at the Annual Meeting of the Research Society on Alcoholism, June 24-29, 2000, Denver, Colorado. Published as an abstract in Alcoholism: Clinical and Experimental Research, 24, 33A, 2000.

PROFESSIONAL PRESENTATIONS: (continued)

Gilliam, D.M. & Gillenwater, P. Maternal genetic effects on ethanol teratogenesis: Where do we go from here? A paper presented at the 71st Annual Meeting Colorado-Wyoming Academy of Science, University of Southern Colorado, Pueblo, CO, April 15, 2000. Published as an abstract in the *Journal, Colorado-Wyoming Academy of Science*, 32, 22, 2000.

Brosnan-Watters, G., Gilliam, D., Bilsky, E.J., & Nash, D. Effects of MK-801 on cerebrocortical neuronal injury in three mouse strains. A paper presented at the 70th Annual Meeting Colorado-Wyoming Academy of Science, University of Northern Colorado, Greeley, CO, April 30, 1999. Published as an abstract in the *Journal, Colorado-Wyoming Academy of Science*, 31, 16, 1999.

Brosnan-Watters, G., Gilliam, D., Bilsky, E.J., & Nash, D. The efficacy of clozapine, an atypical neuroleptic, in blocking neuronal injury caused by MK-801, a glutamate antagonist. Paper presented at the 75th annual meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science, Santa Fe, New Mexico, April 11-15, 1999. Published as an abstract in the SWARM Proceedings, 39, 29, 1999.

Brosnan-Watters, G., Gilliam, D., Bilsky, E.J., & Nash, D. Cause of differing effects of MK-801 in mice: Pigmented vs albino, inbred vs outbred, or other genetic differences? Paper presented at the 75th annual meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science, Santa Fe, New Mexico, April 11-15, 1999. Published as an abstract in the SWARM Proceedings, 39, 29, 1999.

Brosnan-Watters, G., Gonzales, B., Ogimi, T., Shapiro, J., Ford, D., Gilliam, D., & Bilsky, E.J. Differential effects of MK-801 on cerebrocortical neuronal injury in C57BL/6J (inbred) and non-swiss albino (outbred) mice. Poster presented at the Society for Neurosciences 28th Annual Meeting, Los Angeles, California, November 7-12, 1998. Published as an abstract in Society for Neuroscience Abstracts, 24, 489, 1998.

Downing, C.J., & Gilliam, D.M. Maternal cytoplasm does not contribute to reciprocal-cross differences in ethanol teratogenesis. Poster presented at the Fourth French-American Summer School on Neurobehavioral Genetics, University of Northern Colorado, Greeley, CO, June 15-19, 1998.

Brosnan-Watters, G., Gonzales, B., Ogimi, T., Tatekawa, L., Ford, D., Bilsky, E.J., and Gilliam, D.M., Habituation and learning comparison in NSA and B6 mice in the rotating holeboard food search task. Presented at the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science 74th Annual Meeting, Grand Junction, Colorado, May 17-21, 1998. Published as an abstract in the SWARM Proceedings, 38, 49, 1998.

PROFESSIONAL PRESENTATIONS: (continued)

- Wenzinger, G.M., Gilliam, D.M. Morris, G.L., & Bashore, T.R. Development of virtual brains for an undergraduate laboratory in the behavioral neurosciences. Poster presented at the Society for Neurosciences 27th Annual Meeting, New Orleans, LA, October, 1997. Published as an abstract in Society for Neuroscience Abstracts, 23, 285, 1997.
- Downing, C.J., & Gilliam, D.M. Possible cytoplasmic contribution to a maternal effect on ethanol teratogenesis. Poster presented at the Annual Meeting of the Research Society on Alcoholism, July 19-24, 1997, San Francisco, California. Published as an abstract in Alcoholism: Clinical and Experimental Research, 21, 121A, 1997.
- Downing, C., & Gilliam, D.M. A reciprocal cross of B6 and D2 mice: Possible maternal effects. A paper presented at the 67th Annual Meeting Colorado-Wyoming Academy of Science, University of Wyoming, Laramie, WY. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 28, 20, 1996.
- Coyle, S., Nash, D.J., Ackley, R.S. & Gilliam, D. Ototoxic effects of cysplatin on hearing thresholds in fetal alcohol syndrome mice. A paper presented at the 67th Annual Meeting Colorado-Wyoming Academy of Science, University of Wyoming, Laramie, WY. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 28, 19, 1996.
- Downing, C.J., & Gilliam, D.M. Ethanol teratogenesis in a reciprocal cross of B6 and D2 mice. Poster presented at the 1996 Rocky Mountain Psychological Association meeting, April 12-14, 1996, Park City, Utah. Published as an abstract in the Program, Rocky Mountain Psychological Association, p. 48, 1996.
- Boehm II, S., Caldwell, J., and Gilliam, D.M. Ethanol clearance in pregnant B6, D2, and A mice. Poster presented at the Annual Meeting of the Research Society on Alcoholism, June 17-22, 1995, Steamboat Springs, Colorado. Published as an abstract in Alcoholism: Clinical and Experimental Research, 19, 52A, 1995.
- Bromley, S., Gilliam, D., and Johnson, T. Assessment of student created tests as an evaluation method. Poster presented in the Division Two Program at the annual convention of the American Psychological Association, August 11-15, 1995, New York City, New York.
- Karlin, N., Gilliam, D., Medford, R., and Phillips, V. Intrinsic motivation and task choice. Poster presented at the 1995 Rocky Mountain Psychological Association meeting, April 21-23, 1995, Boulder, Colorado.

PROFESSIONAL PRESENTATIONS: (continued)

- McDaniel, D., Boehm, S., Bohan, C. Caldwell, J., Castillo, M., Conk, C., Evans, K., Fowler, K., Hertado, A., Sauter, J., Tutko, D., and Gilliam, D. Prenatal effects of ethanol in C57BL/6J mice. Poster presented at the 1995 Rocky Mountain Psychological Association meeting, April 21-23, 1995, Boulder, Colorado.
- Dujay, R.C., Gilliam, D.M., Ackley, R.S., and Nash, D.J. Effects of prenatally administered cocaine on audition in mice. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 70th Annual Meeting, Durango, Colorado, May 22-26, 1994. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 26, 32-33, 1994.
- Caldwell, J., Lundahl, K., Boehm, S., and Gilliam, D.M. Prenatal alcohol exposure in three inbred mouse strains: Litter measures. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 70th Annual Meeting, Durango, Colorado, May 22-26, 1994. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 26, 32, 1994.
- Boehm, S., Lundahl, K., Caldwell, J., and Gilliam, D.M. Ethanol teratogenesis in C57BL/6J, A/J, and DBA/2J mice. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 70th Annual Meeting, Durango, Colorado, May 22-26, 1994. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 26, 32, 1994.
- Lundahl, K., Boehm, S., Caldwell, J., and Gilliam, D.M. Skeletal and soft-tissue malformations among three inbred mouse strains. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 70th Annual Meeting, Durango, Colorado, May 22-26, 1994. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 26, 32, 1994.
- Gilliam, D.M., Gulley, J.M., Page, S.L., and George, F.R. Prenatal exposure to cocaine reduces ethanol self-administration without affecting sensitivity to ethanol in mice. Poster presented at the Seventh Congress of the International Society for Biomedical Research On Alcoholism, Gold Coast, Queensland, Australia, June 26 - July 1, 1994. Published as an abstract in Alcoholism: Clinical and Experimental Research, 18, 45A, 1994.
- Gulley, J.M., Page, S.L., Gilliam, D.M., and George, F.R. Operant self-administration of ethanol in mice prenatally exposed to cocaine. Poster presented at the 1994 Research Society on Alcoholism Meeting, Maui, Hawaii, June 18-23, 1994. Published as an abstract in Alcoholism: Clinical and Experimental Research, 18, 518, 1994.

PROFESSIONAL PRESENTATIONS: (continued)

- Gilliam, D.M. Factors hypothesized to affect fetal outcome in FAS. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 69th Annual Meeting, Albuquerque, New Mexico, May 23-27, 1993. Published as an abstract in the New Mexico Journal of Science, 33, 17, 1994.
- Mantle, M.A. and Gilliam, D.M. Prenatal cocaine administration in mice: Maternal effects. Paper presented at the Southwestern and Rocky Mountain Division, AAAS, 69th Annual Meeting, Albuquerque, New Mexico, May 23-27, 1993. Published as an abstract in the New Mexico Journal of Science, 33, 19, 1994.
- Gilliam, D.M. and Chase, K.J. Ethanol teratogenesis in three inbred mouse strains. Paper presented at the 22nd Annual Meeting of the Behavior Genetics Association, Boulder, CO, July, 1992. Published as an abstract in Behavior Genetics, 22, 723, 1992.
- Gilliam, D.M. Tolerance to ethanol-induced hypothermia in Long- and Short-Sleep mice: Implications for prenatal alcohol effects. Presented at the 63rd Annual Meeting Colorado-Wyoming Academy of Science, United States Air Force Academy, Colorado Springs, CO. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 24, 19, 1992.
- Mantle, M.A., Barkhausen, D.A., Tweden, D.R., & Gilliam, D.M. Maternal genetic effects on ethanol teratogenesis in B6 and SS mice. Presented at the 62nd Annual Meeting, Colorado-Wyoming Academy of Science, Greeley, CO. Published as an abstract in The Journal of the Colorado-Wyoming Academy of Science, 23, 19, 1991.
- Gilliam, D.M. Maternal genetic effects on alcohol behavioral teratology. Presented at the 1990 Research Society on Alcoholism Meeting, Toronto, Ontario, Canada. Published as an abstract in Alcoholism: Clinical and Experimental Research, 14, 293, 1990.
- Gilliam, D.M. and Irtenkauf, K.S. Genetic influences on ethanol teratology: A reciprocal cross analysis. Presented at the 1989 Research Society on Alcoholism Meeting, Beaver Creek, CO. Published as an abstract in Alcoholism: Clinical and Experimental Research, 13, 322, 1989.
- Goodlett, C.R., Gilliam, D.M., Nichols, J.M., & West, J.R. Differential susceptibility of Short- and Long-Sleep mice to brain weight deficits following prenatal alcohol exposure. Published as an abstract in Society for Neuroscience Abstracts, 14, 1220, 1988.

PROFESSIONAL PRESENTATIONS: (continued)

Gilliam, D.M., Kotch, L.E., & Riley, E.P. Developmental thermoregulation in Long- and Short-Sleep mice following prenatal exposure to alcohol. Poster presented at the Society for Neurosciences 18th Annual Meeting, Toronto, Ontario, Canada, November, 1988. Published as an abstract in Society for Neuroscience Abstracts, 14, 43, 1988.

Gilliam, D.M., Kotch, L.E., & Riley, E.P. Differences in postnatal growth retardation following prenatal alcohol exposure in LS and SS mice. Presented at the 1988 Research Society on Alcoholism Meeting, Wild Dunes, Charleston, SC. Published as an abstract in Alcoholism: Clinical and Experimental Research, 12, 342, 1988.

Gilliam, D.M., Kotch, L.E., Dudek, B.C., & Riley, E.P. Prenatal alcohol-induced limb malformations in Long-Sleep, Short-Sleep, and C57 mice. Presented at the Joint Meeting of the Research Society on Alcoholism and the Committee on Problems of Drug Dependence, Philadelphia, June, 1987. Published as an abstract in Alcoholism: Clinical and Experimental Research, 11, 200, 1987.

Gilliam, D.M., Kotch, L.E., Dudek, B.C., & Riley, E.P. Teratogenic effects of alcohol in Long-Sleep and Short-Sleep mice. Presented at the Joint Meeting of the Research Society on Alcoholism and the Committee on Problems of Drug Dependence, Philadelphia, June, 1987. Published as an abstract in Alcoholism: Clinical and Experimental Research, 11, 199, 1987.

Goodlett, C.R., Gilliam, D.M., & West, J.R. Differential susceptibility of Long-Sleep (LS) and Short-Sleep (SS) mice to brain weight reduction following prenatal alcohol exposure. Poster presented at the 17th Annual Meeting of the Behavior Genetics Association, June, 1987. Published as an abstract in Behavioral Genetics, 17, 624, 1987.

Gilliam, D.M., & Riley, E.P. Differential effects of prenatal alcohol exposure in Long-Sleep and Short-Sleep mice: Offspring mortality and maze performance. Poster presented at the 17th Annual Meeting of the Behavior Genetics Association, June, 1987. Published as an abstract in Behavior Genetics, 17, 622-623, 1987.

Gilliam, D.M., Kotch, L.E., Dudek, B.C., & Riley, E.P. Assessment of a role for maternal thermoregulation in genotype-dependent fetal alcohol effects. Poster presented at the Society for Neurosciences 16th Annual Meeting, Washington, D.C., November, 1986. Published as an abstract in Society for Neuroscience Abstracts, 12, 280, 1986.

Gilliam, D.M., Stilman, A., Dudek, B.C., & Riley, E.P. Prenatal alcohol exposure produced learning deficits in mice selected for alcohol sensitivity. Presented at the National Council on Alcoholism Forum, San Francisco, California, April, 1986. Published as an abstract in Alcoholism: Clinical and Experimental Research, 10, 112, 1986.

PROFESSIONAL PRESENTATIONS: (continued)

- Gilliam, D.M., Caruccio, P.E., and Hirsch, H.V.B. Feline ethanol pharmacokinetics. Presented at the National Council on Alcoholism Forum, San Francisco, California, April, 1986. Published as an abstract in Alcoholism: Clinical and Experimental Research, 10, 112, 1986.
- Gilliam, D.M., Stilman, A., Dudek, B.C., & Riley, E.P. Fetal alcohol effects in mice selected for differential alcohol sensitivity. Paper presented at the Behavioral Teratology Society Meeting, July, 1985. Published as an abstract in Teratology, 31, 8-9B, 1985.
- Gilliam, D.M. Differential ethanol-induced hypothermia following I.V. and I.P. administration. Presented at the National Council on Alcoholism Forum, Columbia, South Carolina, May- June, 1985. Published as an abstract in Alcoholism: Clinical and Experimental Research, 9, 193, 1985.
- Dudek, B.C., Gilliam, D.M., & Phillips, T.J. Dispositional factors and ethanol sensitivity in Long- and Short-Sleep mice. Presented at the National Council on Alcoholism Forum, Columbia, South Carolina, May-June, 1985. Published as an abstract in Alcoholism: Clinical and Experimental Research, 9, 193, 1985.
- Stilman, A., Gilliam, D.M., & Riley, E.P. Genetic influences upon susceptibility to fetal alcohol effects in mice. Presented at the Eastern Psychological Association Meeting, Boston, Massachusetts, March, 1985. Published in EPA Meeting Abstracts, 1985.
- Gilliam, D.M., & Collins, A.C. Indomethacin antagonism of ethanol-induced narcosis at high but not low ethanol concentrations. Paper presented at the 14th Annual Meeting of the Behavior Genetics Association, May, 1984. Published as an abstract in Behavioral Genetics, 14, 603, 1984.
- Gilliam, D.M., & Collins, A.C. The alcohol withdrawal syndrome in Long-Sleep and Short-Sleep mice. Presented at the National Council on Alcoholism Forum, Santa Fe, New Mexico, June, 1984. Published as an abstract in Alcoholism: Clinical and Experimental Research, 8, 93, 1984.
- Gilliam, D.M., & Collins, A.C. Effects of prostaglandin synthesis inhibition on physiological and behavioral measures of the alcohol withdrawal syndrome in DBA/2J mice. Poster presented at the Society for Neurosciences 13th Annual Meeting, Boston, MA, November, 1983. Published as an abstract in Society for Neuroscience Abstracts, 9, 1241, 1983.
- Gilliam, D.M., & Collins, A.C. Physiological measures of ethanol withdrawal in Long-Sleep and Short-Sleep mice. Poster presented at the Society for Neurosciences 12th Annual Meeting, Minneapolis, Minnesota, November, 1982. Published as an abstract in Society for Neuroscience Abstract, 8, 596, 1982.

PROFESSIONAL PRESENTATIONS: (continued)

Gilliam, D.M., & Collins, A.C. Concentration-dependent effects of ethanol on sleep time, body temperature, and ethanol disposition in Long-Sleep and Short-Sleep mice. Paper presented at the 12th Annual Meeting of the Behavior Genetics Association, June, 1982. Published as an abstract in Behavior Genetics, 12, 585, 1982.

Gilliam, D.M., & Collins, A.C. Concentration-dependent effects of ethanol on pulmonary ventilation rate and blood pH, PCO₂, and PO₂ in LS and SS mice. Paper presented at the 66th Annual Meeting of the Federation of American Societies for Experimental Biologists, New Orleans, Louisiana, November, 1982. Published as an abstract in Federation Proceedings, 41, 1641, 1982.

Gilliam, D.M., & Collins, A.C. Postnatal behavioral effects of ethanol continuously administered to mice in utero. Poster presented at the Society for Neurosciences 11th Annual Meeting, Los Angeles, California, November, 1981. Published as an abstract in Society for Neuroscience Abstracts, 7, 157, 1981.

Gilliam, D.M., & Collins, A.C. Ethanol's effect on blood pH, PCO₂, and PO₂ in LS and SS mice. Paper presented at the National Council on Alcoholism Forum, New Orleans, Louisiana, April, 1981. Published as an abstract in Alcoholism: Clinical and Experimental Research, 5, 150, 1981.

Gilliam, D.M., & Collins, A.C. Diurnal effects on ethanol metabolism in Long-Sleep and Short-Sleep mice. Poster presented at the 10th Annual Meeting of the Behavioral Genetics Association, University of Chicago, Chicago, Illinois, July, 1980. Published as an abstract in Behavior Genetics, 10, 477-478, 1980.

Gilliam, D.M., Schlesinger, K., & Wilson, J. The effects of acute nicotine administration on active avoidance learning in two inbred mouse strains. Paper presented at the Annual Meeting of the Western Academy of Science, April, 1978. Published as an abstract in Bulletin of the New Mexico Academy of Science, 18, 23, 1978.

INVITED PROFESSIONAL PRESENTATIONS:

Classical Genetic Methods to Study Fetal Alcohol Effects. Presented at the Annual Meeting of the Fetal Alcohol Syndrome Study Group, Research Society on Alcoholism, San Francisco, CA, June 26-July 3, 2002.

Fetal Alcohol Syndrome and Native Americans. Presented at the Native American Fish and Wildlife Society Environmental Awareness Youth Practicum, Mt. Evans Outdoor Education Lab, July 30, 2000.

INVITED PROFESSIONAL PRESENTATIONS: (continued)

Genetic Influences on Fetal Alcohol Syndrome: Using Mice as Models. A presentation sponsored by the Minority Biomedical Research Support Program and the USC Psychology Department. Presented at the University of Southern Colorado, Pueblo, Colorado, October 8, 1999.

Genetic Strategies for the Study of Prenatal Alcohol Effects in Animal Models. Presented at the Annual Meeting of the Fetal Alcohol Syndrome Study Group, Research Society on Alcoholism, Santa Barbara, CA, June 26-July 1, 1999.

Maternal Genetic Influences on Fetal Alcohol Effects. Presented at the 75th annual meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science, Santa Fe, New Mexico, April 11-15, 1999.

Hearing Disorders Resulting from Prenatal Ethanol Exposure: An Overview of Michael Church's Research. Presented at the 75th annual meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science, Santa Fe, New Mexico, April 11-15, 1999.

Genetic Influences on Ethanol Teratology in Mice. Presented at the University of Northern Colorado Biological Sciences Seminar Series, UNC, Greeley, Colorado, November 21, 1997.

Non-clinical Degrees and Careers in Psychology: Biomedical & Animal Research. Presented as part of the Psi Chi Panel at the 67th meeting of the Rocky Mountain Psychological Association, Reno, Nevada, April 18-20, 1997.

Fetal Alcohol Syndrome and Fetal Alcohol Effects. A presentation sponsored by the Grass Traveling Scientist Award from the Society for Neurosciences. Presented at the University of Fairbanks, Alaska, May 1996.

Genetic Influences on Alcohol Related Birth Defects. Presented at the Alcohol Research Center Seminar/Journal Club, University of Colorado Health Sciences Center, Department of Pharmacology, December 15, 1994.

A Unique FAS Prevention Strategy for Potential Use in Public Schools and Other Programs. The Closing Plenary Session of the Prenatal Exposure to Alcohol and Drugs: A Community Approach to Prevention, A Multicultural Perspective. September 30 - October 1, 1994; Denver Marriott City Center Hotel, Denver, Colorado.

INVITED PROFESSIONAL PRESENTATIONS: (continued)

Demonstrating Malformations in Fetal Mice: It's Easier Than You Think. Round Table Session sponsored by The Colorado Fetal Alcohol And Substance Abuse Coalition, Prenatal Exposure to Alcohol and Drugs: A Community Approach to Prevention, A Multicultural Perspective. September 30 - October 1, 1994. Denver Marriott City Center Hotel, Denver, CO.

Genetic Influences on Prenatal Alcohol Syndrome. University of Otago, Dunedin, New Zealand. July, 1994.

Maternal Genetic Factors That Increase Risk for Fetal Alcohol Syndrome. Sponsored by the New Mexico Access to Research Careers and by the University of New Mexico Center on Alcoholism, Substance Abuse, and Addictions (CASAA). May, 1993.

Genetic Sensitivity to Ethanol Teratogenesis. Department of Marine Sciences, University of Connecticut, Avery Point, Connecticut. October, 1989.

Genetic Influences on Prenatal Alcohol Effects. Sigma Xi and Psychology Department, University of Northern Colorado, Greeley, Colorado. October, 1989.

Behavioral Teratology: The Effects of Prenatal Drug Exposure on Postnatal Drug Effects. National Institute on Drug Abuse/Addiction Research Center, Baltimore, MD. April, 1987.

FUNDED PROJECTS:

University of Northern Colorado Faculty Summer Research Fellowship - Maternal Effects on Malformations Produced by Prenatal Alcohol Exposure. May-August 2002; \$4,500.

University of Northern Colorado Faculty Research and Publications Board Research Grant - Analysis of Skeletal and Urogenital Malformations Caused by Prenatal Alcohol Exposure. May 2001. (Principal Investigator; Total Award: \$2,473).

University of Northern Colorado Faculty Research and Publications Board Research Grant - Uterine Environmental Effects on the Fetal Alcohol Syndrome. November 2000. (Principal Investigator; Total Award: \$2,500).

National Science Foundation, Division of Undergraduate Education, Instrumentation and Laboratory Improvement, A Behavioral Neuroscience Laboratory for the Psychology Curriculum, November 1996 - 1998. (Co-Principal Investigator; Total Project Cost: \$137,886).

FUNDED PROJECTS: (continued)

University of Northern Colorado Faculty Research and Publications Board Research Grant - Maternal Genetic Influences on Susceptibility to the Fetal Alcohol Syndrome. September 1995. (Principal Investigator; Total Award: \$2,479).

University of Northern Colorado Research Corporation Fellowship Award. Genetic Influences on Susceptibility to the Fetal Alcohol Syndrome, January 1994. (Principal Investigator; Total Award: \$4,711).

University of Northern Colorado Faculty Research and Publications Board Research Grant - How Absorption Rate Affects Acute Tolerance to Alcohol. December 1990. (Principal Investigator; Total Award: \$2,500).

National Institute on Alcohol Abuse and Alcoholism Research Grant, Genetic Sensitivity to Prenatal Alcohol Effects. April 1986 - March 1989. (Principal Investigator; Total Indirect Costs: \$111,338).

National Institute on Alcohol Abuse and Alcoholism Research Grant, Genotypic Teratogenic Effects of Alcohol and Nicotine. June 1983 - June 1985. (Principal Investigator; Total Award: \$35,420).

Graduate Student Foundation Fund Award, University of Colorado, Boulder. September 1981 - May 1982. (Principal Investigator: \$380).

GRANTS SUBMITTED:

Colorado Tobacco Research Program, Chronic nicotine effects on ethanol teratogenesis in the mouse, January 2003. (Principal Investigator; Total Costs: \$127,372).

National Institute on Alcohol Abuse and Alcoholism Research Grant, Genetics of Susceptibility to Ethanol Teratogenesis, June 1998. (Principal Investigator; Total Costs: \$1,200,800).

March of Dimes Birth Defects Foundation, Application for a Basic Research Grant, Maternal Genetic Effects on the Fetal Alcohol Syndrome, September 1993. (Principal Investigator; Total Direct Costs: \$34,615).

National Institute on Alcohol Abuse and Alcoholism Research Grant, Maternal Influences on Ethanol Teratogenesis, March 1991. (Principal Investigator; Total Indirect Costs: \$298,147).

PROFESSIONAL ASSOCIATION PARTICIPATION:

International Behavioural and Neural Genetics Society, 1998 – to present.

Wim E. Crusio, Brudnick Neuropsychiatric Research Institute, Dept. of Psychiatry,
University of Massachusetts Medical School, 303 Belmont Street, Worcester, MA
01604

Research Society on Alcoholism, 1980 - to present, 4314 Medical Parkway, Suite 300,
Austin, Texas 78756; (512) 454-0022

Society for Neurosciences, 1983 - to present 11 Dupont Circle, N.W., Suite 500,
Washington, D.C. 20036; (202) 462-6688

International Society for Biomedical Research on Alcoholism, 1987 - to present, Contact
Person: Dr. Richard A. Deitrich, University of Colorado Health Science Center, 4200
E. 9th Ave., C236, Denver, CO 80262, (303) 270-7076

Colorado Fetal Alcohol and Substance Abuse Coalition, 1990 - to present, Contact
Person: Dr. Donna Nimec, The Children's Hospital, 1056 E. 19th Ave., B140,
Denver, CO 80218, (303) 837-2573

Colorado-Wyoming Academy of Science, 1990 - to present, Executive Secretary, 1994 -
to present Contact Person: Dr. Tom Unangst, Department of Biology, United States
Air Force Academy, Colorado Springs, CO 80840, (719) 333-6015

Southwestern and Rocky Mountain Division of the American Academy of Sciences,
1990 - to present, Chair of Psychological Sciences, 1993 – 1996. Contact Person:
David T. Nash, Executive Director, 1624 S. Lemay Ave. #10-113, Fort Collins, CO
80525, (970) 222-9342

Behavior Genetics Association, 1992 - 2002. Contact Person: Dr. David W. Fulker,
Institute for Behavioral Genetics, University of Colorado, Boulder, CO 80309, (303)
492-2840

Rocky Mountain Psychological Association, 1997, Contact Person: Dr. Pennie Seibert,
RMPA Treasurer, Dept. Psychology, Boise State University, Boise, ID 83725

Sigma Xi, 1993 – 1995 Dr. John F. Ahearne, Executive Director, 99 Alexander Dr., P.O.
Box 13975, Research Triangle Park, NC 27709 (919) 549-4691

COMMUNITY / PROFESSIONAL SERVICE:

What Mice Can Tell Us About the Fetal Alcohol Syndrome. Presented to the Rotary Club of Greeley, October 20, 1999.

The Fetal Alcohol Syndrome/Effect Prevention Education Project, Heath Junior High, Greeley, Colorado, September 1994 - May 1995. Demonstrating Fetal Alcohol Syndrome (FAS) in Laboratory Mice: An Interdisciplinary Classroom Project.

Technology Committee, 1993, Monfort Elementary School, Greeley, CO.

The Fetal Alcohol Syndrome/Effect Prevention Education Project, January 1993, Rampart & Arctic Village, Alaska. Demonstrating Fetal Alcohol Syndrome (FAS) in Laboratory Mice: An Interdisciplinary Class Project.

Editorial Reviewer for:

*Alcohol
Alcohol, Health and Research
World
Alcoholism: Clinical and
Experimental Research*

*Biochemistry Pharmacology and
Behavior
Brain Research
Developmental Psychobiology
Neurotoxicology and Teratology
Psychopharmacology*

Outside Reviewer of Grants:

Department of Health and Human Services; Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA)

UNIVERSITY SERVICE:

Department:

- Graduate Coordinator for Psychology Department MA Program, Fall 2001.
- Graduate Committee, 1990 - to present. Special Projects: Teaching Assistant Selection from 1992 to present. Responsible for generating Teaching Assistant Application and for conducting screening.
- Department of Psychology Academic Advisor for Student Athletes, 1994 - to present
- Undergraduate Committee, Fall, 1992
- Search and Screen Committee, Position #21040, Spring 1994
- Curriculum Committee, 1990, Redesigning PSY400 and proposing PSY200 - Psychological Statistics and Design.

UNIVERSITY SERVICE: (continued)

College/University:

- Graduate Council (2004-2007)
- A&S Tenure and Appeals Committee (2002-2004)
- Tenure and Promotion Committee, Arts and Sciences, 1997.
- Search and Screen Committee, Position #21340, Director of the Social Science Teaching Center, Spring, 1994.

GRADUATE STUDENT COMMITTEES:

Doctoral:

2005; Steven Jacquier – Northern Studies Program, University of Alaska, Fairbanks; Faculty Representative.

2000; Shawn Stover – Department of Biology, UNC; Faculty Representative.

1996; Joseph Dasso, Biological Sciences, UNC; Faculty Representative.

1995; Sandy Lebsack -- Math (Statistics), UNC; Faculty Representative.

1993; Jacek Haciaik, Professional Psychology, UNC; Faculty Representative.

Master's:

2005; CJ McKinney – Psychology Department, UNC; thesis committee member.

2003; Chad Edwards – Psychology Department, UNC; thesis committee member.

2002; Jeremy Hart -- Psychology Department, UNC; Chair of thesis committee

2001; Katie Roupe – Psychology Department, UNC; Chair of thesis committee

1998; Laura Bonney – Biological Sciences, UNC; thesis committee member.

1997; Gary Wenzinger, Psychology Department, UNC; thesis committee member.

1996; Chris Downing – Psychology, UNC; Chair of thesis committee.

1995; Scott Duemler, Psychology Department, UNC; thesis committee member.

1994; Mitra Bohlin – Psychology Department, UNC; thesis committee member.

1993; Margaret Mantle – Psychology Department, UNC; Chair of thesis committee.
Received Graduate Dean's Citation of Excellence.

TEACHING:

Courses Taught:

Psy120: Principles of Psychology
Psy200: Psychological Statistics and Design
Psy341: Principles of Learning
Psy400: Research Design and Analysis
Psy480: Physiological Psychology
Psy482/582: Behavior Genetics
Psy621: Practicum in College Teaching of Psychology
Psy680: Neuroscience Seminar: Advances in Behavioral Genetics

Courses Developed:

Psy200 - Psychological Statistics and Design
Psy582 - Behavioral Genetics (Graduate Level)
Psy680: Neuroscience Seminar: Advances in Behavioral Genetics

PROFESSIONAL DEVELOPMENT ACTIVITIES:

Workshops:

Individual workshop with Dr. Arthur Falek, Department of Psychiatry, Emory University and Dr. Claire Coles, director of Fetal Alcohol Syndrome studies, Georgia Mental Health Hospital, Atlanta, Georgia. October 1994.

Individual workshop with Dr. Joe Nadeau to study Embryo Transfer and Recombinant Strain analysis for quantitative trait loci, Jackson Laboratory, Bar Harbor, Maine. February 1993.

Workshop on Human Genetics and the Use of Genetic Animal Models. Sponsored by: The National Institute on Alcohol Abuse and Alcoholism. Portland, Oregon. September 1990.

Neural Systems and Behavior Workshop, Woods Hole Marine Biological Laboratory, Woods Hole, Massachusetts. June 1983 - August 1983.

Conferences:

Development of an Interdisciplinary Major in Neuroscience, Presented by Dr. Larry Normansell, Neuroscience Program Advisor, Muskingum College, New Concord, OH, at the 22nd Annual Meeting of the Society for Neuroscience, October 25-30, 1992. Anaheim Convention Center, Anaheim, CA.

HONORS and AWARDS:

UNC Graduate Summer Research Assistant for Jeremy Hart; Summer 2002, \$4,431.
Project title: Effect of Embryo Transfer on Malformations Produced by Prenatal Alcohol Exposure.

McNair Faculty Mentor for Derrick Ford, 1997 - 1998.

Frontiers of Science Recognition Award, 1996.

Grass Traveling Fellow, awarded by the Society for Neuroscience, May 1996. Travel to the University of Alaska, Fairbanks, Alaska.

College Scholar, College of Arts and Sciences, University of Northern Colorado, October 1995.

1993 Faculty Appreciation Award, Panhellenic Council, University of Northern Colorado.

1992 Achievement Award, University of Northern Colorado, College of Arts and Sciences.

Nominated as a Fellow at the Center for Advanced Study in the Behavior Sciences, Stanford, CA. April 1986.