

## CURRICULUM VITAE

Name: DeFries, John C.  
Title: Professor of Psychology;  
Faculty Fellow, Institute for Behavioral Genetics  
Date of Birth: November 26, 1934  
Place of Birth: Delrey, Illinois

### Education

University of Illinois	B.S.	1956
University of Illinois	M.S.	1958
University of Illinois	Ph.D.	1961

### Research and/or Professional Experience

1990-2005	Director, Colorado Learning Disabilities Research Center, University of Colorado
1981-2001	Director, Institute for Behavioral Genetics, University of Colorado
1976-present	Professor of Psychology, University of Colorado
1970-present	Professor of Behavioral Genetics, University of Colorado
1971 (Feb-May)	Visiting Professor of Genetics and Visiting Colleague, Department of Psychology, University of Hawaii
1967-1970	Associate Professor, Institute for Behavioral Genetics, University of Colorado
1966-1967	Associate Professor, Department of Dairy Science, University of Illinois, Urbana
1963-1964	Research Fellow, Department of Genetics, University of California, Berkeley
1961-1966	Assistant Professor, Department of Dairy Science, University of Illinois, Urbana

### Honors and Awards

Fellow, Association for Psychological Science, 2009-present.  
Distinguished Research Lectureship, Council on Research and Creative Work, University of Colorado, Boulder, 2001-2002.  
Fellow, American Association for the Advancement of Science, Section J (Psychology), 1994.  
Th. Dobzhansky Award for Outstanding Research in Behavior Genetics, Behavior Genetics Association, 1992.  
Scientific Member, The Rodin Remediation Foundation, 1993-present  
Member, Board of Scientific Counselors, National Institute on Drug Abuse, 1987-1991.  
Scientific and Corresponding Member of Academia Rodinesis Pro Remediatione, Kerns, Switzerland, 1990-present.  
Fellow, International Academy for Research in Learning Disabilities, 1987-present.  
Consulting Editor, Journal of Learning Disabilities, 1987-2002.  
President, Behavior Genetics Association, 1982-83.  
Distinguished Lecturer/Scientist, University of Kansas, Lawrence, 1979.  
Invited Lecturer, NATO Advanced Studies Institute on Theoretical Advances in Behavior Genetics, Banff, Alberta, Canada, 1978.  
Secretary, Behavior Genetics Association, 1974-77.  
Distinguished Visitor, Department of Genetics, University of Hawaii, 1972.  
Co-Founder of the journal, Behavior Genetics; Co-Editor, 1970-78; Editorial Advisory Board, 1978-present.  
Invited Lecturer, NATO Advanced Studies Institute in Psychogenetics, University of Birmingham, England, 1969.

### Publications

#### Books

DeFries

- McClearn, G.E., & DeFries, J.C. (1973). Introduction to behavioral genetics. San Francisco: Freeman.
- Plomin, R., DeFries, J.C., & McClearn, G.E. (1980). Behavioral genetics: A primer. San Francisco: Freeman. [Spanish edition: Genetica de la conducta, Alianza Editorial, S.A., Madrid, 1984.]
- Plomin, R., & DeFries, J.C. (1985). Origins of individual differences in infancy: The Colorado Adoption Project. Orlando, FL: Academic Press.
- Plomin, R., DeFries, J.C., & Fulker, D.W. (1988). Nature and nurture during infancy and early childhood. Cambridge: Cambridge University Press.
- Plomin, R., DeFries, J.C., & McClearn, G.E. (1990). Behavioral genetics: A primer (2<sup>nd</sup> ed.). San Francisco: Freeman.
- DeFries, J.C., Plomin, R., & Fulker, D.W. (1994). Nature and nurture during middle childhood. Oxford: Blackwell Publishers.
- Plomin, R., DeFries, J.C., McClearn, G.E., & Rutter, M. (1997). Behavioral genetics (3<sup>rd</sup> ed.). New York: W.H. Freeman and Company.
- Plomin, R., DeFries, J.C., McClearn, G.E., & McGuffin, P. (2001). Behavioral genetics (4<sup>th</sup> ed.). New York: Worth Publishers.
- Petrill, S.A., Plomin, R., DeFries, J.C., & Hewitt, J.K. (Eds.). (2003). Nature, nurture, and the transition to early adolescence. New York: Oxford University Press.
- Plomin, R., DeFries, J.C., Craig, I.W., & McGuffin, P. (2003). Behavioral genetics in the postgenomic era. Washington, DC: American Psychological Association.
- Plomin, R., DeFries, J.C., McClearn, G.E., & McGuffin, P. (2008). Behavioral Genetics (5<sup>th</sup> ed.). New York: Worth Publishers.

Articles

- DeFries, J.C., Touchberry, R.W., & Hays, R.L. (1959). Heritability of the length of the gestation period in dairy cattle. Journal of Dairy Science, 42, 598-606.
- DeFries, J.C., Touchberry, R.W., & Hays, R.L. (1960). Changing the length of the gestation period in dairy cattle. Illinois Research, 2(1), 19.
- DeFries, J.C., & Touchberry, R.W. (1961). A "maternal effect" on body weight in *Drosophila*. Genetics, 46, 1261-1266.
- DeFries, J.C., & Touchberry, R.W. (1961). The variability of response to selection: I. Interline and intraline variability in a population of *Drosophila affinis* selected for body weight. Genetics, 46, 1519-1530.
- Weir, M.W., & DeFries, J.C. (1963). Blocking of pregnancy in mice as a function of stress. Psychological Reports, 13, 365-366.
- DeFries, J.C. (1964). Prenatal maternal stress in mice: Differential effects on behavior. Journal of Heredity, 55, 289-295. Reprinted in M. Manosevitz, G. Lindzey, & D.D. Thiessen, Eds. (1969), Behavioral genetics: Methods and research (pp. 528-537). New York: Appleton-Century-Crofts.
- DeFries, J.C., & Weir, M.W. (1964). Open-field behavior of C57BL/6J mice as a function of age, experience, and prenatal maternal stress. Psychonomic Science, 1, 389-390.

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Touchberry, R.W., & DeFries, J.C. (1964). Genetic effects of gamma-irradiation on egg production and adult emergence of Drosophila melanogaster. Genetics, 49, 387-400.

Weir, M.W., & DeFries, J.C. (1964). Prenatal maternal influence on behavior in mice: Evidence of a genetic basis. Journal of Comparative and Physiological Psychology, 58, 412-417.

DeFries, J.C., Weir, M.W., & Hegmann, J.P. (1965). Blocking of pregnancy in mice as a function of stress: Supplementary note. Psychological Reports, 17, 96-98.

DeFries, J.C., Hegmann, J.P., & Weir, M.W. (1966). Open-field behavior in mice: Evidence for a major gene effect mediated by the visual system. Science, 154, 1577-1579. Reprinted in M. Manosevitz, G. Lindzey, & D.D. Thiessen, Eds. (1969), Behavioral genetics: Methods and research (pp. 211-215). New York: Appleton-Century-Crofts.

DeFries, J.C. (1967). Effects of heredity and prenatal stress on behavior of offspring. Illinois Research, 9, 6-7.

DeFries, J.C., Thomas, E.A., Hegmann, J.P., & Weir, M.W. (1967). Open-field behavior in mice: Analysis of maternal effects by means of ovarian transplantation. Psychonomic Science, 8, 207-208.

DeFries, J.C., Weir, M.W., & Hegmann, J.P. (1967). Differential effects of prenatal maternal stress on offspring behavior in mice as a function of genotype and stress. Journal of Comparative and Physiological Psychology, 63, 332-334. Reprinted in T.E. McGill, Ed. (1973), Readings in animal behavior (2nd ed., pp. 211-213). New York: Holt, Rinehart and Winston.

McReynolds, W.E., Weir, M.W., & DeFries, J.C. (1967). Open-field behavior in mice: Effect of test illumination. Psychonomic Science, 9, 277-278.

Dixon, L.K., & DeFries, J.C. (1968). Development of open-field behavior in mice: Effects of age and experience. Developmental Psychobiology, 1, 100-107.

Dixon, L.K., & DeFries, J.C. (1968). Effects of illumination on open-field behavior in mice. Journal of Comparative and Physiological Psychology, 66, 803-805.

Hegmann, J.P., & DeFries, J.C. (1968). Open-field behavior in mice: Genetic analysis of repeated measures. Psychonomic Science, 13, 27-28.

DeFries, J.C. (1969). Pleiotropic effects of albinism on open-field behavior in mice. Nature, 221, 65-66.

DeFries, J.C., Hegmann, J.P., Ross, D.B., & Howard, M.K. (1969). A quantitative genetic analysis of change in open-field behavior of mice. Psychonomic Science, 17, 153-154.

DeFries, J.C., & McClearn, G.E. (1970). Social dominance and Darwinian fitness in the laboratory mouse. American Naturalist, 104, 408-411.

DeFries, J.C., Wilson, J.R., & McClearn, G.E. (1970). Open-field behavior in mice: Selection response and situational generality. Behavior Genetics, 1, 195-211.

Hegmann, J.P., & DeFries, J.C. (1970). Are genetic correlations and environmental correlations correlated? Nature, 226, 284-286.

Hegmann, J.P., & DeFries, J.C. (1970). Maximum variance linear combinations from phenotypic, genetic, and environmental covariance matrices. Multivariate Behavioral Research, 5, 9-18.

Klein, T.W., & DeFries, J.C. (1970). Similar polymorphisms of taste sensitivity to PTC in mice and men. Nature, 225, 555-557.

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- Klein, T.W., & DeFries, J.C. (1970). Taste sensitivity in infrahuman species: Use of a genetic model to test the validity of alternative measures. Behavior Research Methods and Instrumentation, 2, 106-107.
- Klein, T.W., Howard, J., & DeFries, J.C. (1970). Agonistic behavior in mice: Strain differences as a function of test illumination. Psychonomic Science, 19, 177-178.
- Vandenberg, S.G., & DeFries, J.C. (1970). Our hopes for Behavior Genetics. Behavior Genetics, 1, 1-2.
- Whitney, G., McClearn, G.E., & DeFries, J.C. (1970). Heritability of alcohol preference in laboratory mice and rats. Journal of Heredity, 61, 165-169.
- Klein, T.W., & DeFries, J.C. (1973). Racial and cultural differences in sensitivity to flickering light. Social Biology, 20, 212-217.
- Klein, T.W., DeFries, J.C., & Finkbeiner, C.T. (1973). Heritability and genetic correlation: Standard errors of estimates and sample size. Behavior Genetics, 3, 355-364.
- DeFries, J.C., Hegmann, J.P., & Halcomb, R.A. (1974). Response to 20 generations of selection for open-field activity in mice. Behavioral Biology, 11, 481-495.
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- Kuse, A.R., & DeFries, J.C. (1976). Social dominance and Darwinian fitness in laboratory mice: An alternative test. Behavioral Biology, 16, 113-116.
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- Foch, T.T., DeFries, J.C., McClearn, G.E., & Singer, S.M. (1977). Familial patterns of impairment in reading disability. Journal of Educational Psychology, 69, 316-329.
- Gervais, M.C., DeFries, J.C., & Kuse, A.R. (1977). Open-field behavior in mice: Effect of litter size. Behavioral Biology, 20, 519-522.
- Hewitt, J.K., Fulker, D.W., & DeFries, J.C. (1977). Open-field behavior in mice: Generality of results from a diallel analysis of replicate selected lines. Behavior Genetics, 7, 441-446.
- Plomin, R., DeFries, J.C., & Loehlin, J.C. (1977). Genotype-environment interaction and correlation in the analysis of human behavior. Psychological Bulletin, 84, 309-322.
- Plomin, R., DeFries, J.C., & Roberts, M.K. (1977). Assortative mating by unwed biological parents of adopted children. Science, 196, 449-450.
- Crawford, C.B., & DeFries, J.C. (1978). Factor analysis of genetic and environmental correlation matrices. Multivariate Behavioral Research, 13, 297-318.
- DeFries, J.C. (1978). "Heritability estimates" from family data. Behavior Genetics, 8, 481-482.
- DeFries, J.C., Ashton, G.C., Johnson, R.C., Kuse, A.R., McClearn, G.E., Mi, M.P., Rashad, M.N., Vandenberg, S.G., & Wilson, J.R. (1978). The Hawaii family study of cognition: A reply. Behavior Genetics, 8, 281-288.
- DeFries, J.C., Gervais, M.C., & Thomas, E.A. (1978). Response to 30 generations of selection for open-field activity in laboratory mice. Behavior Genetics, 8, 3-13.
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- DeFries, J.C., Singer, S.M., Foch, T.T., & Lewitter, F.I. (1978). Familial nature of reading disability. British Journal of Psychiatry, 132, 361-367.
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- Ho, H-Z., Plomin, R., & DeFries, J.C. (1979). Selective placement in adoption. Social Biology, 26, 1-6.
- Plomin, R., & DeFries, J.C. (1979). Multivariate behavioral genetic analysis of twin data on scholastic abilities. Behavior Genetics, 9, 505- 517.
- Corley, R.P., DeFries, J.C., Kuse, A.R., & Vandenberg, S.G. (1980). Familial resemblance for the Identical Blocks test of spatial ability: No evidence for X-linkage. Behavior Genetics, 10, 211-215.
- Decker, S.N., & DeFries, J.C. (1980). Cognitive abilities in families with reading disabled children. Journal of Learning Disabilities, 13, 517-522.
- George, F.R., O'Connor, M.F., DeFries, J.C., & Collins, A.C. (1980). Components of the GABA system in mice selectively bred for differences in open-field activity. Brain Research, 200, 85-92.
- Lewitter, F.I., DeFries, J.C., & Elston, R.C. (1980). Genetic models of reading disability. Behavior Genetics, 10, 9-30.

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Plomin, R., & DeFries, J.C. (1980). Genetics and intelligence: Recent data. Intelligence, 4, 15-24.

Decker, S. N., & DeFries, J. C. (1981). Cognitive ability profiles in families of reading-disabled children. Developmental Medicine and Child Neurology, 23, 217-227.

DeFries, J.C., Plomin, R., Vandenberg, S.G., & Kuse, A.R. (1981). Parent-offspring resemblance for cognitive abilities in the Colorado Adoption Project: Biological, adoptive, and control parents and one-year-old children. Intelligence, 5, 245-277.

Hardy-Brown, K., Plomin, R., & DeFries, J.C. (1981). Genetic and environmental influences on the rate of communicative development in the first year of life. Developmental Psychology, 17, 704-717.

DeFries, J.C., Corley, R.P., Johnson, R.C., Vandenberg, S.G., & Wilson, J.R. (1982). Sex-by-generation and ethnic group-by-generation interactions in the Hawaii family study of cognition. Behavior Genetics, 12, 223-230.

Whitney, G., McClearn, G.E., & DeFries, J.C. (1982). Heritability of alcohol preference in laboratory mice and rats: Erroneous estimates. Behavior Genetics, 12, 543-546.

Baker, L.A., DeFries, J.C., & Fulker, D.W. (1983). Longitudinal stability of cognitive ability in the Colorado Adoption Project. Child Development, 54, 290-297.

DeFries, J.C., & Baker, L.A. (1983). Colorado Family Reading Study: Longitudinal analyses. Annals of Dyslexia, 33, 153-162.

DeFries, J.C., & Baker, L.A. (1983). Parental contributions to longitudinal stability in the Colorado Family Reading Study. Child Development, 54, 388-395.

Fulker, D.W., & DeFries, J.C. (1983). Genetic and environmental transmission in the Colorado Adoption Project: Path analysis. British Journal of Mathematical and Statistical Psychology, 36, 175-188.

Johnson, R., Nagoshi, C.T., Ahern, F.M., Wilson, J.R., DeFries, J.C., McClearn, G.E., & Vandenberg, S.G. (1983). Family background, cognitive ability, and personality as predictors of educational and occupational attainment. Social Biology, 30, 86-100.

Plomin, R., & DeFries, J.C. (1983). The Colorado Adoption Project. Child Development, 54, 276-289.

Vogler, G.P., & DeFries, J.C. (1983). Linearity of offspring-parent regression for general cognitive ability. Behavior Genetics, 13, 355-360.

Baker, L.A., Decker, S.N., & DeFries, J.C. (1984). Cognitive abilities in reading-disabled children: A longitudinal study. The Journal of Child Psychology and Psychiatry and Allied Disciplines, 25, 111-117.

Nagoshi, C.T., Johnson, R.C., DeFries, J.C., Wilson, J.R., & Vandenberg, S.G. (1984). Group differences and first principal component loadings in the Hawaii Family Study of Cognition: A test of the generality of "Spearman's hypothesis." Personality and Individual Differences, 5, 751-753.

Rice, T., Plomin, R., & DeFries, J.C. (1984). Development of hand preference in the Colorado Adoption Project. Perceptual and Motor Skills, 58, 683-689.

Vogler, G.P., DeFries, J.C., & Decker, S.N. (1984). Family history as an indicator of risk for reading disability. Journal of Learning Disabilities, 17, 616-618. (Reprinted in Journal of Learning Disabilities, 1985, 18, 419-421.)

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- Wilson, J.R., Erwin, V.G., DeFries, J.C., Petersen, D.R., & Cole-Harding, S. (1984). Ethanol dependence in mice: Direct and correlated responses to ten generations of selective breeding. Behavior Genetics, 14, 235-256.
- Bennett, B., Fulker, D.W., & DeFries, J.C. (1985). Familial resemblance for general cognitive ability in the Hawaii Family Study of Cognition. Behavior Genetics, 15, 401-406.
- DeFries, J.C., & Fulker, D.W. (1985). Multiple regression analysis of twin data. Behavior Genetics, 15, 467-473.
- LaBuda, M.C., Vogler, G.P., DeFries, J.C., & Fulker, D.W. (1985). Multivariate familial analysis of cognitive measures in the Colorado Family Reading Study. Multivariate Behavioral Research, 20, 357-368.
- Plomin, R., & DeFries, J.C. (1985). A parent-offspring adoption study of cognitive abilities in early childhood. Intelligence, 9, 341-356.
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- Thompson, L.A., Plomin, R., & DeFries, J.C. (1985). Parent-infant resemblance for general and specific cognitive abilities in the Colorado Adoption Project. Intelligence, 9, 1-13.
- Vogler, G.P., & DeFries, J.C. (1985). Bivariate path analysis of familial resemblance for reading ability and symbol processing speed. Behavior Genetics, 15, 111-121.
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- Vogler, G.P., & DeFries, J.C. (1986). Multivariate path analysis of cognitive ability measures in reading-disabled and control nuclear families and twins. Behavior Genetics, 16, 89-106.
- DeFries, J.C., Fulker, D.W., & LaBuda, M.C. (1987). Evidence for a genetic aetiology in reading disability of twins. Nature, 329, 537-539.
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## DeFries

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Friend, A., DeFries, J.C., Wadsworth, S.J., Olson, R.K. (2006). Developmental differences in the genetic etiology of reading and spelling disabilities. Behavior Genetics, 36, 964. (Abstract)

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Bricker, J.B., Stallings, M.C., Corley, R.P., Gelhorn, H., & DeFries, J.C. (2007). Association between age of sexual initiation and deviant behavior in combined twin and adoption samples. Behavior Genetics, 37, 741-742. (Abstract)

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Astrom, R., Wadsworth, S. J., & DeFries, J.C. (2008). Etiology of the stability of reading deficits: An update. Behavior Genetics, 38, 614. (Abstract)

Coventry, W.L., Byrne, B., Olson, R.K., Samuelsson, S., Corley, R., Wadsworth S., & DeFries, J.C. (2008). Do the genetic effects for literacy in early childhood differ across sex or across the disabled and normal range? Behavior Genetics, 38, 619. (Abstract)

Hawke, J., DeFries, J.C., Pennington, B.F., Wadsworth, S.J., & Willcutt, E.G. (2008). Genetic etiologies of parent- and teacher-rated ADHD symptom dimensions. Behavior Genetics, 38, 630. (Abstract)

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Brant, A.M., Haberstick, B.C., Corley, R.P., Wadsworth, S.J., DeFries, J.C., & Hewitt, J.K. (2009). The developmental etiology of high IQ. Behavior Genetics, 39, 638. (Abstract)

Friedman, N.P., Miyake, A., Young, S.E., Corley, R.P., Haberstick, B.C., Willcutt, E.G., DeFries, J.C., & Hewitt, J.K. (2009). Unity and diversity of executive functions in the Longitudinal Twin Study. Behavior Genetics, 39, 652. (Abstract)

Hewitt, J., Brant, A., Corley, R., Wadsworth, S., DeFries, J. (2010). A closer look at the developmental etiology of high IQ. Twin Research and Human Genetics, 13, 263. (Abstract)

Brant, A.M., Boomsma, D.I., Corley, R.P., DeFries, J.C., Haworth, C.M.A., Hewitt, J.K., Martin, N.G., McGue, M., Petrill, S.A., Plomin, R., Wadsworth, S.J., Wright, M.J. (2010). Ability and heritability: investigating the continuous effect of IQ score on IQ etiology in multiple samples. Behavior Genetics, 40, 788. (Abstract)

DeFries

## Grants and Fellowships\*

NICHD--"Determinants of Behavioral Development in Children" (renewal), 6/1/03-5/31/07, \$844,292, Principal Investigator.

NIH/NIDCD<sub>BA</sub>Longitudinal Twin Study of Reading Disability,@ 02/15/02-01/31/07, \$1,396,834, Co-Investigator.

NIH/NIMH<sub>BA</sub>Validity of DSM-IV ADHD Subtypes in a Community Sample,@ 09/10/01-08/31/06, \$1,679,145, Co-Investigator.

NIH/NICHD<sub>BA</sub>Behavior Genetic Analyses of Executive Functions,@ 06/01/01-05/31/06, \$1,133,060, Co-Investigator.

NIH/NICHD<sub>BA</sub>Longitudinal Twin Study of Early Reading Development,@ 03/15/00-02/28/05, \$2,372,158, Co-Investigator.

NIH/NICHD<sub>BA</sub>Learning Disabilities Center, Differential Diagnosis in Learning Disabilities,@ 12/01/00-11/30/05, Center \$6,282,789, Principal Investigator.

NIH/NIAAA<sub>BA</sub>NYS Family Study: Problem Alcohol Use and Problem Behavior,@ 09/30/00-08/31/05, \$4,683,070; Subcomponent to the Institute for Behavioral Genetics: \$913,189, Co-Investigator.

NIH/NICHD<sub>BA</sub>DSM-IV ADHD in an Ethnically Diverse Community Sample,@ 08/15/00-07/31/05, \$1,075,000, Co-Investigator.

NIH/NIMH<sub>BA</sub>Transition into Early Adolescence: Twin/Adoption Study,@ 03/01/00-11/30/03, \$729,546, Co-Investigator.

NICHD<sub>BA</sub>Nature and Nurture in Social Demography: An Adoption Study,@ 8/1/98-5/31/03, \$963,232, Principal Investigator.

NICHD--"Determinants of Behavioral Development in Children" (renewal), 6/1/98-5/31/03, \$1,065,838, Principal Investigator.

NIAAA<sub>BA</sub>Alcohol Research Center: Genetics Approaches to the Neuropharmacology of Ethanol. Comp 2, Animal Core,@ 12/1/97-11/30/02, \$913,189, Co-Investigator.

NIDA-~~A~~Antisocial Drug Dependence: Genetics and Treatment,@Comp III@A Longitudinal Adoption Study of Adolescent Substance Experimentation,@ 8/1/97-6/30/02, \$435,074, Co-Investigator,

NIMH<sub>BA</sub>QTL Analysis of Fear-Related Behavior in Rodents,@ 6/1/97-5/31/00, \$497,205, Principal Investigator.

NICHD--@A Twin/Adoption Study of Development in Middle Childhood,@ 6/1/96-5/31/99, \$279,452, Co-Investigator.

William T. Grant Foundation--"Origins of Successful and Unsuccessful Transitions to Adulthood: The Colorado Adoption Project (CAP)," 6/1/98-5/31/01, \$315,995, Co-Investigator.

NICHD--"Differential Diagnosis in Learning Disabilities" (Learning Disabilities Center/renewal ),12/1/95-11/30/00, \$4,256,875, Director.

NICHD--"Research Training--Developmental Behavioral Genetics" (renewal), 7/1/95-6/30/00, \$567,840, Faculty.

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NIMH--"Research Training--Biological Sciences" (renewal), 7/1/94-6/30/99, \$535,061, Program Director.

MacArthur Foundation--"The MacArthur Longitudinal Twin Study: A Proposal to Study Individual Differences in Adaptation Processes and Outcome at Seven years"; 7/1/93-6/30/98; \$1,361,820, Principal Investigator.

NIMH--"Transition into Early Adolescence" (renewal), 12/10/94-11/30/99, \$260,437, Co-Investigator.

NICHD--"Determinants of Behavioral Development in Children" (renewal), 6/1/93-5/31/98, \$670,621, Principal Investigator.

NIAAA--"Animal Models" component of "Genetic Approaches to the Neuropharmacology of Ethanol" (CU Alcohol Research Center/renewal), 12/1/92-11/30/97, \$694,695, Co-Investigator.

NIDA--"Behavioral Genetic Studies of Drug Abuse Vulnerability", (Drug Abuse Research Center/renewal), 9/1/92-7/31/97, \$2,704,730, Program Director.

NIAAA--"Mapping of Genes Predisposing to Alcohol Sensitivity", 8/1/92-7/31/96, \$626,893, Co-Investigator.

NIAAA--"Behavioral Pharmacogenetics of Drug and Alcohol Abuse", 1/1/92-12/31/96, \$861,672; Co-Director.

NICHD--"An Adoption Study of Development in Middle Childhood" (renewal), 6/1/91- 5/31/96, \$555,370, Co-Investigator.

MacArthur Foundation--"Longitudinal Assessment of 5-Year-Old Twins: The MacArthur Longitudinal Twin Study," 1/1/91-12/31/95, \$174,311, Principal Investigator.

NICHD--"Differential Diagnosis in Learning Disabilities" (Learning Disabilities Research Center), 9/30/90-11/30/95, \$3,358,574, Principal Investigator.

NICHD--"Research Training--Developmental Behavioral Genetics" (renewal), 7/1/90-6/30/95, \$562,680, Faculty.

NIMH--"Research Training--Biological Sciences" (renewal), 7/1/89-6/30/94, \$280,456, Program Director.

NIDA--"Behavioral Genetic Studies of Drug Abuse Vulnerability" (Drug Abuse Research Center), 9/30/88-3/31/92, \$865,893, Principal Investigator.

NICHD--"Determinants of Behavioral Development in Children" (renewal), 9/1/88-5/31/93, \$544,715, Principal Investigator.

NICHD--"Differential Diagnosis in Reading Disability" (renewal), 7/1/88-6/30/92, \$1,171,529, Program Director.

NIMH--"The Colorado Adoption Project: Adolescent Mental Health," 7/1/88-6/30/93, \$781,280, Co-Investigator.

NIAAA--"Animal Models" component of "Genetic Approaches to the Neuropharmacology of Ethanol" (CU Alcohol Research Center/renewal), 12/1/87-11/30/92, \$283,027, Co-Investigator.

NIAAA/NIDA--Pharmacogenetics of Alcohol and Drug Abuse," 1/1/87-12/31/91, \$623,222, Associate Program Director.

MacArthur Foundation--"Genetic Change and Continuity During the Transition from Infancy to Early Childhood: A Longitudinal Twin Study," 7/1/86-6/30/93, \$2,447,871, Principal Investigator.

CU/CRCW--Faculty Fellowship, 9/1/90-12/31/90, \$45,187.

NICHD--"An Adoption Study of Development in Middle Childhood", (renewal) 6/1/89-5/31/91, \$162,919, Co-Investigator.

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NICHD--"Determinants of Behavioral Development in Children" (renewal), 9/1/85-8/31/88, \$229,648, Principal Investigator.

NSF--"Genetic and Environmental Influences on Family Relationships," 7/15/85-6/14/88, \$180,000, Co-Investigator.

NICHD--"Research Training--Developmental Behavioral Genetics," 7/1/85-6/30/90, \$556,424, faculty.

NICHD--"Differential Diagnosis in Reading Disability" (renewal), 7/1/85-6/30/88, \$1,018,954, Program Director.

Spencer Foundation--"Determinants of Behavioral Development in Early Adolescence," 6/1/85-5/31/88, \$170,000, Principal Investigator.

MacArthur Foundation--"Etiology of Physical and Mental Health Problems During the Transition Period," 6/1/85-5/31/86, \$8,328, Co-Investigator.

NIMH--"Research Training--Biological Sciences" (renewal), 7/1/84-6/30/89, \$264,005, Program Director.

NICHD--"An Adoption Study of Development in Middle Childhood," 6/1/84-5/31/89, \$473,687, Co-Investigator.

W.T. Grant Foundation--"Stress and Coping in the Early School Years," 4/1/84-3/31/85, \$23,000, Principal Investigator.

NIAAA--"Animal Models" component of "Genetic Approaches to the Neuropharmacology of Ethanol" (CU Alcohol Research Center), 12/1/82-11/30/87, \$178,000, Investigator.

MacArthur Foundation--Colorado Node of "Research Network on the Transition from Infancy to Early Childhood," 9/1/82-8/31/87, \$400,000, Co-Investigator.

NICHD--"Determinants of Behavioral Development in Children" (renewal), 9/1/82- 8/31/85, \$377,309, Principal Investigator.

NICHD--"Differential Diagnosis in Reading Disability" (renewal), 7/1/82-6/30/85, \$985,161, Program Director.

NIMH--"Research Training--Biological Sciences," 8/1/81-6/30/84, \$134,480, Program Director.

NIDA--"Drug Abuse: Mechanisms, Pharmacogenetics and Behavior," 1/1/81-12/31/86, \$721,500, Associate Director.

CU/CRCW--Faculty Fellowship, 9/1/79-5/31/80, \$29,173.

NICHD--"Differential Diagnosis in Reading Disability," 7/1/79-6/30/82, \$630,785, Program Director.

W.T. Grant Foundation--"Videotaped Analysis of Behavioral Development of Adopted Infants," 5/1/78-4/30/79, \$19,900, Co-Investigator.

NICHD--"Determinants of Behavioral Development in Children," 4/1/77-3/31/82, \$521,319, Principal Investigator.

W.T. Grant Foundation--"A Pilot Prospective Adoption Study of Behavioral Development," 11/1/75-10/31/76, \$13,900, Co-Investigator.

NIGMS--"Research Training in Behavioral Pharmacogenetics," 7/1/75-6/30/80, \$173,476, Faculty.

NIMH--"Research Training--Biological Sciences," 7/1/74-6/30/79, \$539,613, Faculty.

DeFries

Spencer Foundation--"Genetic Analysis of Reading Disabilities," 8/1/73-7/31/76, \$140,000, Principal Investigator.

NSF & NICHD--"Genetic and Environmental Bases of Human Cognition," 6/1/72-5/31/77, \$1,278,832, Co-Investigator.

CU/CRCW--Faculty Fellowship, 1/1/71-5/31/71, \$7,750.

NIMH--"Research Training--Biological Sciences," 7/1/68-6/30/73, \$625,501, Faculty.

NIGMS--"Studies in Mouse Behavioral Genetics," 9/1/66-8/31/72, \$750,317, Co-Investigator.

NIGMS--"Genetics of Quantitative Behavior," 9/1/64-8/31/69, \$115,943, Principal Investigator.

PHS--Fellowship in Genetics (University of California, Berkeley), 10/1/63-8/31/64, \$5,000.

NIGMS--"Genetic Effects of Radiation on Biometrical Traits," 2/1/61-1/31/65, \$63,344, Co-Investigator.

\*Direct costs only.

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