

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

DeFries

Books

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 (2nd 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 (3rd ed.). New York: W.H. Freeman and Company.

Plomin, R., DeFries, J.C., McClearn, G.E., & McGuffin, P. (2001). Behavioral genetics (4th 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 (5th 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.

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- 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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- 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.
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- 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.
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- 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.
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Whitney, G., McClearn, G.E., & DeFries, J.C. (1970). Heritability of alcohol preference in laboratory mice and rats. Journal of Heredity, 61, 165-169.

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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. (1976). Parent-offspring resemblance for specific cognitive abilities in two ethnic groups. Nature, 261, 131-133.

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Johnson, R.C., Park, J., DeFries, J.C., McClearn, G.E., Mi, M.P., Rashad, M.N., Vandenberg, S.G., & Wilson, J.R. (1976). Assortative marriage for specific cognitive abilities in Korea. Social Biology, 23, 311-316.

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- Plomin, R., & DeFries, J.C. (1976). Letter in response to "The Heritability Hang-up," by M. Feldman & R.C. Lewontin. Science, 194, 10-12.
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- Plomin, R., DeFries, J. ., & Roberts, M.K. (1977). Assortative mating by unwed biological parents of adopted children. Science, 196, 449-450.
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- DeFries, J.C., Johnson, R.C., Kuse, A.R., McClearn, G.E., Polovina, J., Vandenberg, S.G., & Wilson, J.C. (1979). Familial resemblance for specific cognitive abilities. Behavior Genetics, 9, 23-43.
- 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.
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- Decker, S.N., & DeFries, J.C. (1980). Cognitive abilities in families with reading disabled children. Journal of Learning Disabilities, 13, 517-522.

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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.

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.

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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.)

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.

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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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LaBuda, M.C., DeFries, J.C., & Fulker, D.W. (1986). Multiple regression analysis of twin data obtained from selected samples. Genetic Epidemiology, 3, 425-433.

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Loehlin, J.C., & DeFries, J.C. (1987). Genotype-environment correlation and IQ. Behavior Genetics, *17*, 263-277.

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Bergeman, C.S., Plomin, R., DeFries, J.C., & Fulker, D.W. (1988). Path analysis of general and specific cognitive abilities in the Colorado Adoption Project: Early childhood. Personality and Individual Differences, *9*, 391-395.

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Grants and Fellowships*

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

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

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

NIH/NICHD_BA Behavior Genetic Analyses of Executive Functions, @ 06/01/01-05/31/06, \$1,133,060, Co-Investigator.

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

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

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

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

NICHD_BA 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.

NIAA_BA 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_BA 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.

DeFries

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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