

CURRICULUM VITAE
(abbreviated version 4-06)

Bruce C. Dudek

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Personal: Born Nov. 10, 1951, Lakeland FL, USA
Married, two children

Education: State University of New York at Binghamton.
Ph.D. 1978 Degree in Psychology
Major areas: Behavior Genetics and Neurobiology
Advisor: J.L. Fuller

State University of New York at Binghamton.
M.A. 1976 Major area: Biopsychology

Florida State University. Non-degree studies.
1973-1974 Specialization: Biology and Statistics

Florida State University. B.A. 1973
Major: Psychology Minor: Biology

Positions: Professor of Psychology. 1994-present.
and Adjunct Professor, Dept. Biology.

State University of New York at Albany. 1985-1994.
Associate Professor of Psychology and adjunct, Dept.
of Biology.

State University of New York at Albany. 1979-1985.
Assistant Professor of Psychology and adjunct, Dept.
of Biology.

State University of New York at Albany. 1978-1979.
Visiting Assistant Professor of Psychology.

Teaching Experience: Undergraduate:
Behavior Genetics
Biological Bases of Sensation (Sensation and Perception)
Biological Bases of Behavior (Physiological Psychology)
Statistical Methods in Psychology
Psychopharmacology

Graduate:
Introduction to Experimental Design (Statistics I)
Advanced Techniques in the Design of
Psychological Experiments (Statistics II)
Behavior-Genetic Analysis
Psychopharmacology

Typical course load has been two per semester.

This includes 28 years experience as the faculty member with primary responsibility for the two-semester statistics/design sequence required of all graduate students in our department (clinical and all experimental programs).

Scholarly Activity

1. Professional Behavior Genetics Association

Affiliations: International Society for Neurochemistry
Society for Neuroscience
Research Society on Alcoholism
International Society for Developmental Psychobiology
Animal Behavior Society
American Association for the Advancement of Science
American Statistical Association
Biometric Society

Consulting: Statistical consulting:
Pharmaceutical
Social and Natural Science Research

Expert witness on individual identification in
paternity and familial relationship legal proceedings.
Including traditional blood typing and DNA
fingerprinting.

Professional Editorial Advisory Boards (previously):

Activities: BEHAVIOR GENETICS

ALCOHOLISM, CLINICAL AND EXPERIMENTAL RESEARCH

Editorial Reviewer:

SCIENCE

BEHAVIOR GENETICS

JOURNAL OF COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY

JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY

JOURNAL OF COMPARATIVE PSYCHOLOGY

PSYCHOPHARMACOLOGY

PHARMACOLOGY, BIOCHEMISTRY AND BEHAVIOR

PHYSIOLOGY AND BEHAVIOR

ALCOHOLISM: CLINICAL AND EXPERIMENTAL RESEARCH

BEHAVIORAL PROCESSES

PSYCHOLOGICAL RECORD

BEHAVIORAL AND NEURAL BIOLOGY

ALCOHOL AND DRUG RESEARCH

LIFE SCIENCES

ALCOHOL

BRAIN RESEARCH

ALCOHOL HEALTH AND RESEARCH WORLD

MULTIVARIATE BEHAVIORAL RESEARCH

BEHAVIORAL NEUROSCIENCE

J. PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

NATURE GENETICS

National Institutes of Health and VA Grant Reviews

(see next page)

Ad hoc reviewer for:

National Science Foundation

The New York State Health Department Division of

Laboratories and Research

Plenum Press

Prentice Hall

Chair of paper sessions at numerous conferences.

Executive Board of the Hudson-Berkshire chapter of
the Society for Neuroscience.

External reviewer for promotion and tenure cases at
several colleges and universities.

Grant, and other Review Duties for the National Institutes of Health and the VA (old/incomplete)

Member:

ALTX3 (formerly ALCB-2) Initial Review Group, NIH. 9-95 to 7-99

Ad Hoc Reviewer for

Alcohol, Behavior and Neuroscience (ALCB-2)

Initial Review Group, NIAAA. Feb., 1992

ALCB-2 IRG, NIAAA. June., 1993

ALCB-2 IRG, NIAAA. June., 1994

ALCB-2 IRG, NIAAA. Oct., 1994

ALCB-2 IRG, NIAAA. Feb., 1995

ALCB-2 IRG, NIAAA. June., 1995

ALTX-3 IRG, July, 2000, Sept, 2000, June 2001, Feb, 2002

Reviewer, NIH Special Emphasis Panel, 2-99

Biomedical Research Review Subcommittee (AA-1), NIAAA/NIH. 6-98

Integrative, Functional and Cognitive Neuroscience 2, NIH 7-98

Molecular, Cellular and Developmental Neurosciences 5, 10-98

Member:

Special Review Committee, NIAAA February, 1995

Special Review Committee on High Throughput Phenotyping, NIH, July 99

Member:

Alcohol Research Center Reviews, including site visit team, 1992, 1997, 2000,2002

Ad Hoc Reviewer for

Psychobiology, Behavior and Neuroscience (PBN) IRG, NIMH. June., 1994

PBN IRG, NIMH. Feb., 1995

Ad Hoc Reviewer for

Molecular, Cellular, and Developmental Review Committee, NIMH, Nov., 1994

Member:

Special Review Committee, NIMH July, 1995

Member:

Special Emphasis Panel (Review Committee), NIMH, July, 1996 (**Chair**)

Ad Hoc Reviewer for

VA Merit Review Board on Alcoholism and Drug Abuse, Sept., 1994

VA Merit Review Board on Alcoholism and Drug Abuse, Sept., 1995

Reviewer for Ninth Special Report to Congress by the National Institute on Alcoholism and Alcohol Abuse.

Member Workshop Panel (invited speaker) on Genotype by Environment Interactions in the Etiology of Alcoholism. May, 2002.

Research Psychopharmacological, Neurochemical and Teratological

Interests: Effects of Alcohol:

- a. Genetic Influences
- b. Sex Differences
- c. Biphasic effects of alcohol on the CNS and behavior
- d. Interactions of alcohol with stimulants and minor tranquilizers.

Behavior Genetics:

- a. Pharmacogenetics.
- b. Neurogenetics.
- c. Biometrical and Quantitative Genetics.
- d. Linkage analysis and Quantitative Trait Locus (QTL) assessment.
- e. Brain Evolution
- f. Genetic influences on lateralization

Publications

Research Articles

Published:

- C.A. Frye, K. Sumida, **B.C. Dudek**, J.P. Harney, J.P. Lydon, B.W. O'Malley, D.W. Pfaff, and M. E. Rhodes. Progesterone's effects to reduce anxiety behavior of aged mice do not require actions via intracellular progestin receptors. *Psychopharmacology*, in press, 2006
- Frye, CA, Rhodes, ME, Dudek, BC. Estradiol to aged female or male mice improves learning in inhibitory avoidance and water maze tasks. *Brain Research* 1036 (2005) 101– 108.
- Downing, C., Rodd-Henricks, K.K., Flaherty, L. and **Dudek, B.C.** Genetic analysis of the psychomotor stimulant effect of ethanol. *Genes, Brain and Behavior*, 2:140-151, 2003.
- Chris Downing, Kristina Rodd-Henricks, Rodney J. Marley and **Bruce C. Dudek**. Genetic variation in the psychomotor stimulant properties of cocaine in *Mus musculus*. *Psychopharmacology* 167:159-166, 2003.
- Lorraine Gunzerath and David Goldman. G × E: A NIAAA Workshop on Gene-Environment Interactions. *Alcoholism: Clinical and Experimental Research*, 27(3):540-562, 2003 (**B. Dudek** wrote sections on animal models)
- Wahlsten, Douglas, Pamela Metten, Tamara J. Phillips, Steven L. Boehm II, Sue Burkhart-Kasch, Janet Dorow, Sharon Doerksen, Chris Downing, Jennifer Fogarty, René Hen, Carrie S. McKinnon, Catherine M. Merrill, Cedar Nolte, Melike Schalomon, Jason R. Schlumbohm, Jason R. Sibert, Charlotte D. Wenger, **Bruce C. Dudek** and John C. Crabbe. Different Data from Different Labs: Lessons from Studies of Gene-Environment Interaction. *JOURNAL OF NEUROBIOLOGY*, 54:283-311, 2003
- Wahlsten D, Crabbe JC, **Dudek BC**. Behavioural testing of standard inbred and 5HT(1B) knockout mice: implications of absent corpus callosum. *Behav Brain Res*. 125:23-32, 2001
- Crabbe, J.C., Wahlsten, D. and **Dudek, B.C.** Genetics of Mouse Behavior: Interactions with lab environment. *SCIENCE*, 284:1670-1674, 1999, .
- Dudek, B.C., Tritto, T., Case, K.A., Caldarone, B., and Clarke, J. Genetics, psychomotor stimulant effects

- of ethanol, and ethanol absorption in mice. In Hannigan, J., Spear, N., Spear, L., and Goodlet, C. (Eds), Alcohol and Alcoholism: Brain and Development, Mahwah, NJ: L. Erlbaum, 1999.
- Falk, D., Froese, N., Sade, D. and Dudek, B.C. Sex Differences in Brain/Body Relationships of Rhesus Monkeys and Humans. *J. HUMAN EVOLUTION*, 36:233-238, 1999.
- Witt, E., Cunningham C., Dudek B., Finn P., Henderson N., Plomin R., Samson H. Gene-environment interactions in alcohol research: round table discussion of conceptual and methodological issues using animal models. *ALCOHOLISM: CLINICAL AND EXPERIMENTAL RESEARCH*, 22:1719-1723, 1998.
- Caldarone B, Saavedra C, Tartaglia K, Wehner JM, Dudek BC, Flaherty L. Quantitative trait loci analysis affecting contextual conditioning in mice. *NATURE GENETICS*, 17(3):335-7, 1997.
- Dudek, B.C. and Tritto, T. Classical and neo-classical approaches to the genetic analysis of alcohol-related phenotypes. *ALCOHOLISM: CLIN EXP RES.*, 19:802-810, 1995
- Falk, D., Gage, T., Dudek, B.C., and Olsen, T. Did more than one species of hominid coexist before 3.0 Myr? *J. HUMAN EVOLUTION*, 29:591-600, 1995.
- Dudek, B.C. and Tritto, T. Biometrical genetic analysis of ethanol's psychomotor stimulant effect. *ALCOHOLISM: CLIN EXP RES.*, 18:956-963, 1994
- Dudek, B.C., Tritto, T., Underwood, K.A. Genetic influences on locomotor activating effects of ethanol and sodium pentobarbital. *PHARM. BIOCHEM. BEHAV.* 48:593-600, 1994.
- Tritto, T, and Dudek, B.C. Differential activating effects of ethanol in C57BL/6Abg and DBA/2Abg mice. *ALCOHOL*, 11:133-139, 1994
- Falk, D., and Dudek, B.C. Mosaic Evolution of the Neocortex. *BEHAVIORAL and BRAIN SCIENCES*, 16:701-702, (commentary) 1994.
- Dudek, B.C. and Underwood, K.A. Selective breeding, congenic strains, and other classical genetic methods for the assessment of alcohol-related polygenic pleiotropisms. *BEHAVIOR GENETICS*, 23:179-189,1993.
- Underwood, K.A., McCutcheon, N.B., and Dudek, B.C. The effects of fludrocortisone acetate on salt appetite in mice. *PHYSIOLOGY AND BEHAVIOR*, 54:671-675, 1993.
- Dudek, B.C., Kim Yi, D., Gilliam, D.M., and Irtenkauf, K.T. Comparisons of sub-colonies of selectively bred Long-Sleep and Short-Sleep mice. *BEHAVIOR GENETICS*, 23:245-250, 1993.
- Dudek, B.C., Phillips, T.J, and Hahn, M.E. Genetic analyses of the biphasic nature of the alcohol dose-response curve. *ALCOHOLISM: CLIN EXP RES.* 15:262-269, 1991
- Phillips, T.J. and Dudek, B.C. Locomotor activity responses to ethanol in selectively bred Long- and Short-Sleep mice, two inbred mouse strains, and their F1 hybrids. *ALCOHOLISM: CLIN EXP RES.* 15:255-261, 1991
- Dudek, B.C. and Phillips, T.J. Distinctions among sedative, disinhibitory, and ataxic properties of ethanol in inbred and selectively bred mice. *PSYCHOPHARMACOLOGY*, 101:93-99, 1990
- Gilliam, D.M., Dudek, B.C. and Riley, E.P. Responses to ethanol challenge in Long- and Short-Sleep mice prenatally exposed to alcohol. *ALCOHOL*, 7:1-6, 1990.
- Phillips, T.J. Kim, D. and Dudek, B.C. Convulsant properties of GABA antagonists and anticonvulsant properties of ethanol in selectively bred Long- and Short-Sleep mice. *PSYCHOPHARMACOLOGY.* 98:544-548, 1989.
- Dudek, B.C. and Phillips, T.J. Genotype-dependent effects of GABAergic agents on sedative properties of ethanol. *PSYCHOPHARMACOLOGY.* 98:518-523, 1989
- Phillips, T.J. and Dudek, B.C. Modification of ethanol effects by bicuculline: genotype-dependent responses and inheritance. *PSYCHOPHARMACOLOGY.* 98:549-555, 1989.
- Gilliam, D.M, Kotch, L.E., Riley, E.P. and Dudek, B.C. Ethanol teratogenesis in selectively-bred Long-Sleep and Short-Sleep mice: a comparison to inbred C57BL/6J mice. *ALCOHOLISM: CLIN*

EXP RES. 13:667-672, 1989.

- Gilliam, D.M., Kotch, L.E., Dudek, B.C. and Riley, E.P. Ethanol teratogenesis in mice selected for differences in alcohol sensitivity. *ALCOHOL*. 5:513-519, 1989.
- Gilliam, D.M., Stillman, A., Dudek, B.C. and Riley, E.P. Fetal alcohol effects in Long- and Short-Sleep mice: activity, passive avoidance and *in utero* ethanol levels. *NEUROBEHAVIORAL TOXICOLOGY AND TERATOLOGY*. 9:349-357, 1987
- Dudek, B.C., Maio, A.M., Phillips, T.J. and Perrone, M. Naturalistic behavioral assessment of anxiolytic properties of benzodiazepines and ethanol in mice. *NEUROSCIENCE LETTERS*, 63:265-270, 1986.
- Gilliam, D.M., Phillips, T.J., and Dudek, B.C. A comparison of ethanol absorption and narcosis in Long- and Short-Sleep mice following intraperitoneal or intragastric ethanol administration. *ALCOHOL*, 2:655-658, 1985.
- Phillips, T.J., Gilliam, D.M. and 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*, 1:373-378, 1984.
- Dudek, B.C. and Abbott, M.E. A biometrical genetic analysis of ethanol response in selectively bred Long-Sleep and Short-Sleep mice. *BEHAVIOR GENETICS*. 14:1-19, 1984.
- Boice, R., Gansler, D., Shaughnessy, P. and Dudek, B.C. Generality of Observational Skill across verbal and nonverbal modes. *J NONVERBAL BEHAVIOR*, 8:172-186, 1984
- Dudek, B.C., Abbott, M.E., Garg, A. and Phillips, T.J. Apomorphine effects on behavioral response to ethanol in mice selectively bred for differential sensitivity to ethanol. *PHARMACOLOGY, BIOCHEMISTRY AND BEHAVIOR*. 20:91-94, 1984.
- Dudek, B.C. and Abbott, M.E. The relationship between ethanol-induced locomotor activation and narcosis in Long-Sleep and Short-Sleep mice. *ALCOHOLISM: CLINICAL AND EXPERIMENTAL RESEARCH*. 8:272-276, 1984.
- Dudek, B.C., Abbott, M.E. and Phillips, T.J. Stimulant and depressant properties of sedative-hypnotics in mice selectively bred for differential sensitivity to ethanol. *PSYCHOPHARMACOLOGY*. 82:46-51, 1984.
- Blanchard, E.B., Andrasik, F., Arena, J.G., Neff, D.R., Jurish, S.E., Teders, S.J., Saunders, N.L., Pallmeyer, T.P., Dudek, B.C. and Rodichok, L.D. A Bio-Psycho-Social investigation of headache activity in a chronic headache population. *HEADACHE*. 24:79-87, 1984.
- Dudek, B.C. and Phillips, T.J. Locomotor stimulant and intoxicant properties of methanol, ethanol, tertiary butanol and pentobarbital in Long-Sleep and Short-Sleep mice. *SUBSTANCE AND ALCOHOL ACTIONS/MISUSE*. 4:31-36, 1983.
- Shapiro, N.R., Dudek, B.C. and Rosellini, R.A. The role of associative factors in tolerance to the hypothermic effects of morphine in mice. *PHARMACOLOGY, BIOCHEMISTRY AND BEHAVIOR*. 19:327-333, 1983.
- Dudek, B.C., Adams, N., Boice, R. and Abbott, M.E. Genetic influences on digging behaviors in mice (*Mus musculus*) in laboratory and semi-natural settings. *J COMPARATIVE PSYCHOLOGY*. 97:249-259, 1983.
- Dudek, B.C. Ethanol-induced conditioned taste aversions in mice that differ in neural sensitivity to ethanol. *J STUDIES ON ALCOHOL*. 43:129-136, 1982.
- Arena, J.G., Blanchard, E.B., Andrasik, F., and Dudek, B.C. The headache symptom questionnaire: discriminant classificatory ability and headache syndromes suggested by a factor analysis. *J BEHAVIORAL ASSESSMENT*. 4:55-69, 1982.
- Shapiro, N.R. and Dudek, B.C. UNANOVA: An unweighted means analysis of variance program for the TI-59 programmable calculator. *BEHAVIOR RESEARCH METHODS AND*

INSTRUMENTATION. 12:563, 1980.

- Dudek, B.C. and Fanelli, R.J. Effects of gamma-butyrolactone, amphetamine, and haloperidol in mice differing in sensitivity to alcohol. *PSYCHOPHARMACOLOGY*. 68:89-97, 1980.
- Dudek, B.C. and Fuller, J.L. Task-dependent genetic influences on behavioral response of mice (*Mus musculus*) to acetaldehyde. *J COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY*. 92:749-758, 1978.
- Church, A.C., Fuller, J.L. and Dudek, B.C. Behavioral effects of salsolinol and ethanol on mice selected for sensitivity to alcohol-induced sleep-time. *DRUG AND ALCOHOL DEPENDENCE*. 2:443-452, 1977.
- Church, A.C., Fuller, J.L. and Dudek, B.C. Salsolinol differentially affects mice selected for sensitivity to alcohol. *PSYCHOPHARMACOLOGY*. 47:49-52, 1976.
- Crawford, F.T., Lyman, P.J. and Dudek, B.C. The effect of morning glory seeds upon extinction of a classically conditioned response in fish (*Tilapia mossambica*). *BULLETIN PSYCHONOMIC SOCIETY*. 6:358-360, 1975.

Book:

- Hahn, M.E., Jensen, C. and Dudek, B.C. (Eds). *Development and evolution of brain size: behavioral implications*. New York: Academic Press. 1979.

Book Chapters:

- Dudek, B.C., Tritto, T., Case, K.A., Caldarone, B., and Clarke, J. Genetics, psychomotor stimulant effects of ethanol, and ethanol absorption in mice. In Hannigan, J., Spear, N., Spear, L., and Goodlet, C. (Eds), *Alcohol and Alcoholism: Brain and Development*, Mahwah, NJ: L. Erlbaum, 1999.
- Horowitz, G.P. and Dudek, B.C. Behavioral Pharmacogenetics. In J. Fuller and E. Simmel (Eds), *Behavior Genetics: Principles and Applications*. Hillsdale NJ: L. Erlbaum, pp 117-154, 1983.
- Dudek, B.C. and Berman, P.J. Biochemical correlates of selective breeding for brain size. In Hahn, M.E., Jensen, C. and Dudek, B.C. (Eds). *Development and evolution of brain size: behavioral implications*. New York: Academic Press, 1979, pp 221-238.
- Jensen, C., Hahn, M.E. and Dudek, B.C. Toward an understanding of the brain-behavior relationship. In Hahn, M.E., Jensen, C. and Dudek, B.C. (Eds). *Development and evolution of brain size: behavioral implications*. New York: Academic Press, 1979, pp 2-7.
- Hahn, M.E., Jensen, C. and Dudek, B.C. The role of development in the brain-behavior relationship. In Hahn, M.E., Jensen, C. and Dudek, B.C. (Eds). *Development and evolution of brain size: behavioral implications*. New York: Academic Press, 1979, pp 371-380.

Grants:

- E.Wulfert, PI. Dudek is Co-I. Cognitive-Motivational treatment for pathological gamblers. \$1,005,000 requested. NIMH/NIH, 2003-present
- Dudek, (PI) Pharmacogenetic approaches to cocaine neuropharmacology. NIDA 8/1/97-6-31-01 R01DA10731-supplement (Dudek, PI - supplemented to above NIDA grant). NIH Office of Behavioral and Social Science Research, through NIDA. Multi-center Trial of Standardized tests of Mouse Behavior for Transgenic Mice. 9/97 - 6/00
- Dudek, B.C. (P.I.) Genetic aspects of alcohol's behavioral activation. NIAAA 8-1-94 to 7-31-00
- Dudek, B.C. (P.I.) Genetic influences on behavioral sensitivity to alcohol. Research Scientist Development Award (K02). 2-1-94 to 1-31-99,

Dudek, B.C. (P.I.) Genetic aspects of alcohol's behavioral activation. 8-1-91 to 7-31-94, NIAAA.
Dudek, B.C. Brain dopamine systems and alcohol psychopharmacology. \$3,354. SUNY Research Foundation, 1981.

University Service:

Departmental Service:

Director of the Biopsychology Graduate Program/Area
(1989-1992 and 9-98 to present)

Chair of Search Committee for faculty position in Biopsychology 97-97, 98-99, 99-00,
Department web creator and webmaster, 92-present.

Executive Committee

Graduate Committee

Curriculum Committee

Personnel Committee (Recruitment)

Colloquium Committee

Space Committee

Statistical and Computer Consulting in the Department
and numerous other places on campus.

College of Social and Behavioral Sciences:

Ad Hoc Committee on Courses and Programs in the
Social and Behavioral Sciences.

Computer Committee (Chair, 87-89).

Committee on curriculum development in racial and
ethnic diversity (1989).

Ad Hoc Committee on Space.

Ad Hoc service on the CSBS Personnel
committee (several).

Search committee for Computing specialist in
CSBS (twice).

University:

University Council on Research (97-04, chair 99-03)

URGPAC (2001-2003)

Capital Plan Steering Committee (2000-?)

Life Sciences Building Program Committee. (98-02)

University Master Plan Committee (98-2000).

University Senate (CAS elected representative 98-present)

Research Liaison Committee (98-01)

Oversight Committee on PC maintenance (Academic Computing)

Search Committee for University PC maintenance technician (Academic Computing, 98)

Chair of Search Committee for CAS Computing Group Director (College of Arts and Sciences, 99)

Arts and Sciences Curriculum Council.
Council on Promotions and Continuing Appointment (80-82)
Task Force on Statistics at SUNY-Albany.
Committee on Development of a Ph.D. Program in
Neuroscience.
Faculty consultant for freshman orientation.
Laboratory Animal Care and Use Committee
Laboratory Animal Facility Management Group
Several Guest Lectures in ABIO 549, 615, and 651.
Lecturer for Computer Center short course on
SPSS statistical package
Judge for New York State Junior Senior Science and
Humanities Symposium (numerous times)

Community Service

Cub Scout Leader
Youth Sports Coach (soccer, baseball)
Youth Sports Referee (soccer)
Youth Sports Administrator (soccer)