

CURRICULUM VITAE - DOUGLAS McHOSE BOWDEN, M.D.

DEGREES HELD

B.A., Psychology, Harvard College, Cambridge, MS, 1959
Certificates, Russian Language, Indiana University, Bloomington, IN, 1958, 1961
M.D., Stanford University School of Medicine, Palo Alto, CA, 1965

FULL TITLES

Professor, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine
Core Staff Scientist, National Primate Research Center, University of Washington
Head, Biostructure Technology Laboratory, National Primate Research Center, University of Washington

FELLOWSHIPS AND POSITIONS HELD

1959 Psychology Research Assistant, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, Massachusetts
1960-61 Psychiatry Research Assistant, Stanford School of Medicine, Stanford, California
1961-62 Exchange Fellow, Neurophysiology, Moscow State University, Moscow, U.S.S.R., Interuniversity Committee on Travel Grants and Rockefeller Foundation
1964 Junior Fellow, Wenner-Gren Foundation
1964 Research Associate, Max-Planck-Institute for Psychiatry, Munich, Germany
1965-66 Pediatric Intern, Bronx Municipal Hospital, Albert Einstein College of Medicine, New York, NY
1966 Consultant to Interpreters, International Psychology Congress, Psychology Institute, Moscow, U.S.S.R.
1966-69 Staff Associate, Section on Neuropsychology, Laboratory of Psychology, NIMH, Bethesda, Maryland
1969-73 Assistant Professor, Department of Psychiatry, University of Washington School of Medicine
1969- Core Staff Scientist, National Primate Research Center, University of Washington
1969-70 Participant, National Academy of Sciences/Soviet Academy of Sciences Exchange Program, Moscow, Leningrad, Sukhumi, U.S.S.R.
1973-79 Associate Professor, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine
1975-85 Coordinator, Residency Research Program, Department of Psychiatry and Behavioral Sciences, University of Washington
1975-79 Adjunct Associate Professor of Pharmacology, University of Washington
1976-87 Research Affiliate, Child Development and Mental Retardation Center, University of Washington
1977-80 Assistant Director, National Primate Research Center, University of Washington
1979- Professor of Psychiatry & Behavioral Sciences, University of Washington School of Medicine
1979-88 Adjunct Professor of Pharmacology, University of Washington School of Medicine
1980-88 Associate Director, Washington National Primate Research Center
1989 Research Fellow, Japan Society for Promotion of Science, Japan Association for Laboratory Animal Science, Tokyo, Tsukuba, Inuyama/Kyoto
1988-94 Director, Washington National Primate Research Center

SOCIETIES AND HONORS

Harvard National Scholarship, Harvard College, 1955-59

B.A., Cum Laude, Harvard College, 1959

Roche Award, Stanford School of Medicine, 1961

Joseph Collins Scholarship, Stanford School of Medicine, 1962-65

Research Scientist Development Award, National Institute of Mental Health, 1970-75

Society for Neuroscience 1972-

American Society of Primatologists 1977-

Gerontological Society 1977-80; 1985-87

Pavlovian Society, 1984-88

International Society of Primatologists, 1987-

Fellow, Gerontological Society of America, 1990-

COMMITTEES

Co-Chairman, Research Committee, Department of Psychiatry, University of Washington School of Medicine, 1971-76

Executive Committee, National Primate Research Center, University of Washington, 1972-79

Chairman, Appointments Committee, Department of Psychiatry and Behavioral Sciences, University of Washington, School of Medicine, 1973-75, 1985-88

Member, Research and Education Committee, Veterans Administration Hospital, Seattle, 1973-75

University of Washington Faculty Senate, 1976-78

Chairman, Promotions Committee, Department of Psychiatry and Behavioral Sciences, University of Washington, School of Medicine, 1980-82

Member, Executive Committee, Department of Psychiatry and Behavioral Sciences, University of Washington, School of Medicine, 1982-84

Chairman, Grants Review Committee, Alcoholism and Drug Abuse Institute, University of Washington, 1979-80; Member, 1977-79

Member, Scientific Advisory Committee, Clinical Research Center, University of Washington, 1979-81

Member, Medical Thesis and Student Research Committee, School of Medicine, University of Washington, 1983-85

Member, Graduate School Research Fund Grants Review Committee, University of Washington, 1982-84

Member, Search Committee for Chairman of Department of Psychiatry and Behavioral Sciences, School of Medicine, University of Washington, 1984-87

Member, Appointments and Promotions Committee, School of Medicine, University of Washington, 1984-87

Member, Research Advisory Committee, National Primate Research Center 1995-

Departmental Representative, Faculty Senate, University of Washington 2006-08

NATIONAL RESPONSIBILITIES

Member, Communications Committee of Society for Neuroscience, 1973-75

Consultant to National Library of Medicine on Soviet Publications for Translation, 1973-85

Consultant to National Institute on Aging on Animal Models in Research on Aging, 1976

Chairman, Subcommittee on Nonhuman Primates, National Research Council Institute of Laboratory Animal Resources, Committee on Animal Models for Research on Aging, 1978-80

Consultant to NIAMDD and Cystic Fibrosis Foundation on Primate Models of Human Disease, Bethesda, MD, 1978

Program Chairman, Third Meeting of American Society of Primatologists, Winston-Salem, NC, 1980

Curriculum Vitae-Douglas M. Bowden

Page 3

Consultant to National Institute on Aging on Care of Aged Primates for Research, Bethesda, MD, 1984
Witness at USPHS Regional Hearings on proposed changes in principles of humane use and care of laboratory animals, Seattle, WA, 1984
Consultant on Markers of Aging to MacArthur Foundation, Briarcliff Manor, NY, 1984
Member, U.S. Working Group, US-USSR Exchange in the Cardiovascular Area, Program 7, Hypertension, Moscow and Sukhumi, USSR, 1984-
Adhoc Reviewer, Alcohol and Biomedical Research Review Committee, ADMHA, 1985
Member, Special Study Section, Research on Neural Tube Defects, NINCDS, 1985
Consultant on Aging in Nonhuman Primates, Gerontology Research Center, Baltimore, 1985
Adhoc Member and Site Visitor, Aging Review Committee, National Institute on Aging, Atlanta, GA and Bethesda, MD, 1985
Member, Research Committee, American Society of Primatologists, 1986-
Member, University of Washington Health Sciences Research Awareness Committee, 1983-
Member, University of Washington Health Sciences Legislative Awareness Group, 1986-88
Member, Institute of Laboratory Animal Resources (ILAR) of the National Research Council, 1985-1991
Member, Committee on Animals in Research, Society for Neuroscience, 1988-91
Chairman, Nominations and Elections Committees of the American Society of Primatologists, 1989-90
Board Member, National Association for Biomedical Research, 1992-95
Member, National Advisory Committee, Americans for Medical Progress, Inc. 1992-98
Member, Scientific Review Committee, NIH/NIMH Human Brain Project, Neuroinformatics 2001-
Member, Working Group on NeuroOntology, NIMH/San Diego Supercomputing Center 2000-2002
Member, Brain Information Group, Society for Neuroscience 2003
Member, Editorial Board of Frontiers in Neuroinformatics 2007-
US Node Representative, International Neuroinformatics Coordinating Facility 2008-

LOCAL RESPONSIBILITIES

Head, Biostructure Technology Laboratory, National Primate Research Center, UW, 1997-

EDITORIAL

Neuroscience and Behavioral Physiology, Editorial Board, 1968-79
Soviet Psychology, Editorial Advisory Board, 1972-
Neuroinformatics, Editorial Board, 2002-

RECENT GRANTS AND CONTRACTS

Interoperability for Brain Information Repositories
Funding Agency: National Institute of Mental Health
Principal Investigator: DM Bowden
Years: 2003-2004
Current Year: \$50,000 All Years: \$50,000

Biostructure Technology Laboratory (National Primate Research Center)
Funding Agency: National Center for Research Resources
Laboratory Head: DM Bowden
Years: 2002-2007
Current Year: \$134,000 All Years: \$670,000

Curriculum Vitae-Douglas M. Bowden

Page 4

Spatial Information Management Resource for Human Brain

Funding Agency: National Library of Medicine

Principal Investigator: DM Bowden

Years: 2005-2008

First Year: \$200,000 All Years: \$600,000

Comprehensive Digital Atlas of the Macaque Brain

Funding Agency: National Institute of Mental Health

Principal Investigator: DM Bowden

Years: 2004-2008

First Year: \$400,000 All Years: \$1,600,000

PUBLICATIONS

Websites and CDs

BrainInfo, Neuroscience Division, National Primate Research Center, University of Washington, Seattle World Wide Web site [<http://braininfo.rprc.washington.edu/>] 2001-2008; UCSD World Wide Web site [<http://braininfo.org>] 2009- .

Template Atlas of the Primate Brain, World Wide Web site, [<http://rprcsgi.rprc.washington.edu/neuronames>], 1997-2002

Primate Brain Maps, compact disk with NeuroNames, 62 Atlas plate diagrams, 70 Templates for downloading, 800 photomicrographs of brain sections: Elsevier, Amsterdam, 2000.

BrainInfo, Neuroscience Division, National Primate Research Center, University of Washington, Seattle World Wide Web site [<http://braininfo.rprc.washington.edu/>] 2001-

Areas of the Human Cortex Involved in Language: A Synopsis of Luria's Traumatic Aphasia, Web design by Erik McArthur, CD and Website [<http://www.wanprc.org/luria>] 2002

NeuroNames 2002: Brain hierarchy, Default Names and Synonyms for Digital Indexing and Web Applications, Compact Disk issued by Neuroscience Division, Washington NPRC, Seattle. Compact Disk, 2002.

NeuroNames 2004: Mouse Brain Nomenclatures for Digital Indexing and Web Applications, Compact Disk issued by Neuroscience Division, Washington NPRC, Seattle. Compact Disk, 2004.

Books

Bowden, D. M. Translation (Russian-English): Luria, A. R. *Traumatic Aphasia, its Syndromes, Psychology and Treatment*. The Hague, Amsterdam: Mouton and Company, 1970, 479 pages.

Bowden, D. M. Translation (Russian-English): Startsev, V. G. *Primate Models of Human Neurogenic Disorders*. New York: L. Erlbaum, 1976.

Curriculum Vitae-Douglas M. Bowden

Page 5

Bowden, D. M., Editor. *Aging in Nonhuman Primates*. New York: Van Nostrand Reinhold, 1979, 393 pages.

Bowden, D. M. Authored and edited several sections of *Mammalian Models for Research on Aging*, 587-page report by the Committee on Animal Models for Research on Aging, B. J. Cohen, Chairman, National Academy of Sciences. Washington, D.C.: National Academy Press, 1981.

NeuroNames Instruction Manual, Primate Information Center, University of Washington, Seattle, WA, 1991, 17 pp.

Martin, R.F. and Bowden, D.M. *Primate Brain Maps*, book, 166 pp., Elsevier, Amsterdam, 2000.

Research Articles and Chapters

Lindsley, D. F., Bowden, D. M. and Bullock, T. H. *Observations on Soviet Neurophysiology 1961-62*. Monograph, Department of Zoology, UCLA, 133 pages.

Bowden, D. M. Translation: Sokolov, E. N. The orienting reflex. *Annual Review of Physiology*, 1963, 25, 545-580.

Karimova, M. M., Bowden, D. M. and Sokolov, E. N. Habituation of the orienting response (OR) after cutting around or ablating the auditory cortex. *Journal of Higher Nervous Activity* (Russian), 1964, 14, 459-467.

Bowden, D. M., Sokolov, E. N. and Karimova, M. M. Selective habituation of the orienting reflex to complex auditory and multimodality stimuli. *Journal of Higher Nervous Activity* (Russian), 1964, 14, 608-617.

Bowden, D. M. Translation: Luria, A. R. Neuropsychological analysis of focal brain lesions. Chapter 26 in *Handbook of Clinical Psychology*, B. B. Wolman (Ed.). New York: McGraw-Hill, 1965.

Bowden, D. M. Primate behavioral research in the USSR: The Sukhumi Medico-Biological Station. *Folia Primatologica*, 1966, 4, 346-360.

Bowden, D. M. and Cole, M. Glossary of terms frequently encountered in Soviet psychology. *Soviet Psychology and Psychiatry*, 1966, 84, 10-15 (3-4).

Bowden, D., Winter, F. and Ploog, D. Pregnancy and delivery behavior in the squirrel monkey (*Saimiri sciureus*) and other primates. *Folia Primatologica*. 1967, 5, 1-42.

Bowden, D. M. and Rothenberg, M. B. Comprehensive care of a mentally retarded hemophilic adolescent with tongue biting tic. *Pediatrics*, 1969, 43, 19-25.

Bowden, D. M. Soviet studies of animals under stress. *Soviet Psychology*, 1969/70, 8, 84-86.

Bowden, D. M. Current Soviet psychological and psychiatric research with nonhuman primates. *Soviet Psychology*, 1970, 9, 3-5.

Bowden, D. M., Goldman, P. G., Rosvold, H. E. and Greenstreet, R. L. Free behavior of rhesus monkeys following lesions of the dorso-lateral and orbital prefrontal cortex in infancy. *Experimental Brain Research*, 1971, 12, 265-274.

Bowden, D. M. The functional system: keystone to Luria's neuropsychology. *Skolepsykologi*, 1971, 8, 409-423.

Bowden, D. M. and McKinney, W. T. Behavioral effects of peer separation, isolation, and reunion on adolescent male rhesus monkeys. *Developmental Psychobiology*, 1972, 5, 353-362.

Bowden, D. M. Foreword. Pp. v-xvii in *The Man with a Shattered Mind* by A. R. Luria. New York: Basic Books, 1972.

Bowden, D. M., Holm, R. and Morgan, M. K. General anesthesia for surgery in the infant pigtail monkey, *Macaca nemestrina*. *Laboratory Animal Science*, 1974, 24, 675-678.

Bowden, D. M. and McKinney, W. T. Effects of selective frontal lesions on response to separation in adolescent rhesus monkeys. *Brain Research*, 1974, 75, 167-171.

German, D. C. and Bowden, D. M. Catecholamine systems as the neural substrate for intracranial self-stimulation: an hypothesis. *Brain Research*, 1974, 73, 381-419.

German, D. C. and Bowden, D. M. Locus ceruleus in rhesus monkey (*Macaca mulatta*): a histochemical fluorescence, Nissl, and silver study. *Journal of Comparative Neurology*, 1975, 161, 19-30.

Bowden, D. M., Galkin, T. and Rosvold, H. E. Primate drinking system as defined by electrical stimulation of the brain (ESB). *Physiology and Behavior*, 1975, 15, 103-111.

Bowden, D. M. Editor's Introduction. Pp. 1-10 in *Primate Models of Human Neurogenic Disorders* by V. G. Startsev. New York: L. Erlbaum, 1976, 198 pages.

Maxim, P., Bowden, D. M. and Sackett, G. P. Ultradian rhythms of solitary and social behavior in rhesus monkeys. *Physiology and Behavior*, 1976, 17, 337-344.

Lewis, B. D., Kripke, D. F. and Bowden, D. M. Ultradian rhythms in hand-mouth behavior of the rhesus monkey. *Brain Research*, 1977, 18, 283-286.

Simmons, D. L., Blake, P. H. and Bowden, D. M. Punch sampling techniques for quantitative identification of tritiated D-amphetamine. *Brain Research Bulletin*, 1977, 2, 143-147.

Anzil, A., Bowden, D. M. and Ploog, D. Malignant lymphoma in a squirrel monkey (*Saimiri sciureus*). *Journal of Medical Primatology*, 1977, 6, 251-256.

Bowden, D. M., German, D. C. and Poynter, W. D. Autoradiographic stereotaxic mapping of axons originating in locus ceruleus and adjacent nuclei of *Macaca mulatta*. *Brain Research*, 1978, 145, 257-276.

Bowden, D. M., Kripke, D. F. and Wyborney, V. G. Ultradian rhythms in behavior of rhesus monkeys. *Physiology and Behavior*, 1978, 21, 929-933.

Hong, K. M., Bowden, D. M. and Kogan, K. L. Telemetered heart rate as a psychophysiological correlate of mother-child interaction. *Journal of the American Academy of Child Psychiatry*, 1979, 18, 103-118.

Bowden, D. M. Translation: Kazanetz, E. F. The differentiation of exogenous psychiatric illness from schizophrenia. *Archives of General Psychiatry*, 1979, 36, 740-745.

Bowden, D. M. and Jones, M. L. Aging research in nonhuman primates. Chapter 1 in *Aging in Nonhuman Primates*, edited by D. M. Bowden. New York: Van Nostrand Reinhold, 1979.

Bowden, D. M., Blake, P. H., Teets, C. and Knitter, G. H. The Macaca nemestrina project '77: design and procedures. Chapter 3 in *Aging in Nonhuman Primates*, edited by D. M. Bowden. New York: Van Nostrand Reinhold, 1979.

Cohen, D., Eisdorfer, C. and Bowden, D. M. Cognition. Chapter 4 in *Aging in Nonhuman Primates*, edited by D. M. Bowden. New York: Van Nostrand Reinhold, 1979.

Moore, R. N., Schiller, H. and Bowden, D. M. Adrenocortical structure and function. Chapter 19 in *Aging in Nonhuman Primates*. edited by D. M. Bowden. New York: Van Nostrand Reinhold, 1979.

Bowden, D. M., Teets, C., Witkin, J. and Young, D. M. Long bone calcification and morphology. Chapter 27 in *Aging in Nonhuman Primates*, edited by D. M. Bowden. New York: Van Nostrand Reinhold, 1979.

Bowden, D. M. Nonhuman primates in aging research. *Recent Advances in Gerontology*, 1979, 11, 117-122.

Jones, R. J. and Bowden, D. M. Social factors influencing alcohol consumption: a primate model. Pp. 185-189 in *Animal Models in Alcohol*, edited by K. Ericksson, J. D. Sinclair and K. Kiianmaa. London: Academic Press, 1980.

Jones, R. J., Spelman, F. A. and Bowden, D. M. Microprocessor-controlled drinkometer for primates in social groups. *Physiology and Behavior*, 1980, 25, 151-153.

Spelman, F. A., Jones, R. J. and Bowden, D. M. An identification system for primates in social groups. *Physiology and Behavior*, 1980, 25, 147-149.

Bowden, D. M. and Reich, W. Soviet psychiatry: scientific dissidence and political dissidents. (Letter to the editor.) *Archives of General Psychiatry*. 1980, 37, 961.

Dooley, D. J., Dubach, M. F., Blake, P. H. and Bowden, D. M. A chronic, stereotaxic guide-tube platform for intracranial injections in macaques. *Journal of Neuroscience Methods*, 1981, 3, 385-396.

Dooley, D. J., Hungar, A. A., Nelson, W. L. and Bowden, D. M. 3-0-,4-0-diacetylisoproterenol and 3-0-,4-0-dibenzoylisoproterenol: hypothermic effects in mice and the involvement of beta adrenergic receptors. *European Journal of Pharmacology*, 1982, 70, 213-218.

Dooley, D. J., Namkung, M. J., Hungar, A. A., Horita, A. and Bowden, D. M. Catecholaminergic involvement in the biphasic effect of ADATN on temperature in mice. *European Journal of Pharmacology*, 1981, 71, 269-276.

Bowden, D. M. Animals in the laboratory. Letter to the Editor, *Science*, 1982, 216, 682-683.

Clarren, S. K. and Bowden, D. M. Fetal alcohol syndrome: a new primate model for binge drinking and its relevance to human ethanol teratogenesis. *Pediatrics*, 1982, *101*, 819-824.

Clarren, S. K. and Bowden, D. M. A new primate model for binge drinking and its relevance to human ethanol teratogenesis. *Teratology*, 1982, *25*, 35A-36A.

Bowden, D. M., Weathersbee, P. S., Clarren, S. K., Fahrenbruch, C. E., Goodlin, B. L., and Caffery, S. A. A periodic dosing model of fetal alcohol syndrome in the pigtailed macaque (*Macaca nemestrina*). *American Journal of Primatology*, 1983, *4*, 143-157.

Dubach, M. F. and Bowden, D. M. Response to intracerebral dopamine injection as a model of schizophrenic symptomatology. Pp. 157-184 in *Ethopharmacology: Primate Models of Neuropsychiatry*, K. Miczek, ed. New York: Alan R. Liss, 1983.

Dooley, D. J. and Bowden, D. M. Differential effects of dopaminergic agonists on food-reinforced operant behavior in the long-tailed macaque (*Macaca fascicularis*). *Psychopharmacology*, 1983, *81*, 170-176.

Clarren, S. K. and Bowden, D. M. Measures of alcohol damage *in utero* in the pigtailed macaque (*Macaca nemestrina*). Pp. 157-172 in *1984 Mechanisms of Alcohol Damage in Utero*. Ciba Foundation Symposium 105.

Bowden, D. M. and Williams, D. D. Aging. Pages 305-341 in "Research on Nonhuman Primates," Vol. 28 of *Advances in Veterinary Science and Comparative Medicine*, A. G. Hendrickx, ed. New York: Academic Press, 1984.

Williams, D. D. and Bowden, D. M. A nonhuman primate model for the osteopenia of aging. Pages 207-219 in *Comparative Pathology of Major Age Related Diseases*, D. Scarpelli, ed. New York: Alan R. Liss, 1984.

Bowden, D. M. and Caminiti, B. A pioneer in primatology retires. *Journal of Medical Primatology*, 1985, *14*, 1-3.

Inouye, R. N., Kokich, V. G., Clarren, S. K., and Bowden, D. M. Fetal alcohol syndrome: an examination of craniofacial dysmorphology in *Macaca nemestrina*. *Journal of Medical Primatology*, 1985, *14*, 35-48.

Dubach, M. F., Tongen, V. C., and Bowden, D. M. Techniques for improving stereotaxic accuracy in *Macaca fascicularis*. *Journal of Neuroscience Methods*, 1985, *13*, 163-169.

Clarren, S. K., Bowden, D. M., and Astley, S. The brain in the fetal alcohol syndrome. Observations in human and nonhuman primates. *Alcohol Health and Research World*. 1985, *10*, 20-23.

Bowden, D. M. Trends in species studied by neuroscientists 1973-1985. *Neuroscience Newsletter*. 1986, *17*, 6-7.

Kalhorn, T. F., Bowden, D. M., and Slattery, J. T. Pharmacokinetics of ethanol in pigtailed macaques: intersubject variability and effect of subchronic administration. *Pharmacology, Biochemistry and Behavior*, 1986, *24*, 485-489.

Kalhorn, T. F., Bowden, D. M., and Slattery, J. T. Effects of food, mild stress and distributed intake on the absorption and plasma concentration-time profile of orally ingested ethanol in pigtailed macaques. *Pharmacology, Biochemistry and Behavior*, 1986, 24, 491-496.

Clarren, S. K., Bowden, D. M., and Astley, S. J. Outcomes after weekly oral administration of ethanol in the pig-tailed macaque (*Macaca nemestrina*). *Teratology*, 1987, 35, 345-354.

Lai, H., Bowden, D. M., and Horita, A. Age related decreases in dopamine receptors in the caudate nucleus and putamen of the rhesus monkey (*Macaca mulatta*). *Neurobiology of Aging*, 1987, 8, 45-49.

Dubach, M., Schmidt, R., Kunkel, D., Bowden, D. M., Martin, R., and German, D. C. Primate neostriatal neurons containing tyrosine hydroxylase: immuno-histochemical evidence. *Neuroscience Letters*, 1987, 75, 205-210.

Short, R., Williams, D. D., and Bowden, D. M. Cross-sectional evaluation of potential biological markers of aging in pigtailed macaques: effects of age, sex and diet. *Journal of Gerontology*, 1987, 42, 644-654.

German, D. C., Dubach, M., Askari, S., Speciale, S. G., and Bowden, D. M. MPTP-induced parkinsonian syndrome in *M. fascicularis*: which midbrain dopaminergic neurons are lost. *Neuroscience*, 1988, 24, 161-174.

Smith, O. A., Golanov, E., Astley, C. A., Chalyan, V., Spelman, F. A., Urmancheeva, T., Bowden, D. M., and Chesney, M. A. Behavior and the cardiovascular system. In *Neurocardiology*. Kulbertus and Franck (eds.). Mt. Kisco, NY: Futura Publishing Co., 1988, pp. 279-289.

Bowden, D. M. Problems facing the use of nonhuman primates in neuroscience research. *Neuroscience Newsletter*. 1988, 19, 1-3.

Bowden, D. M. Primate research and "psychological well-being," (letter to the editor). *Science*, 1988, 240, 12.

Bowden, D. M. Response to Dr. Edward Masoro. *Experimental Gerontology*, 1988, 23, 395-397.

Clarren, S.K., Astley, S.J., and Bowden, D.M. Physical anomalies and developmental delays in nonhuman primate infants exposed to weekly doses of ethanol during gestation. *Teratology*. 1988, 37, 561-569.

Dubach, M., Schmidt, R.H., Martin, R., German, D.C., and Bowden, D.M. Transplant improves hemiparkinsonian syndrome in nonhuman primate: intracerebral injection, rotometry, tyrosine hydroxylase immunochemistry. *Progress in Brain Research*, 1988, 78, 491-496.

Bowden, D.M. Trends in species studied by neuroscientists 1973-1988. *Neuroscience Newsletter*, 1989, 20, 4-5.

Gaur, L.K., Bowden, D.M., Tsai, C.-C., Davis, A., and Clark, E.A. The major histocompatibility complex, MnLA, of pigtailed macaques: definition of fifteen specificities. *Human Immunology*, 1989, 24, 277-294.

Bowden, D.M., Brammer, G.L., Fredrickson, T., Raleigh, M.H., Dougherty, A., Short, R.A., and Williams, D.D. Relations between whole blood serotonin and sex, age, diet and social status in *Macaca nemestrina*. *American Journal of Primatology*, 1989, 18, 221-120.

Bowden, D.M. and Dubach, M.F. Behavioral effects of intracerebral dopamine injections in the longtailed macaque. In *Systems Research in Physiology*, K. V. Sudakov, D. Granten and N. Nikolov (eds). London: Gordon and Breach, 1989, pp. 355-367.

Short, R., England, N., Bridson, W.E., and Bowden, D.M. Ovarian cyclicity, hormones and behavior as markers of aging in female pigtailed macaques (*Macaca nemestrina*). *Journal of Gerontology: Biological Sciences*, 1989, 44, B131-138.

Bielitzki, J., Susor, T.G., Elias, K., and Bowden, D.M. Improved cage design for single housing of social nonhuman primates. *Am. Assoc. Lab. An. Sci.*, 1990, 40, 428-431.

Bowden, D.M. Role of Primate Research Centers in the United States, 30 page report published by Experimental Primate Resource Development Committee, Tsukuba, Japan, 1990.

Bowden, D.M., Short, R., Williams, D.D., Constructing an instrument to measure the rate of aging in female pigtailed macaques (*Macaca Nemestrina*), *Journal of Gerontology*, 1990, 45, B59-66.

Clarren, S.K., Astley, S.J., Bowden, D.M., Lai, H., Milam, A.H., Rudeen, P.K., and Shoemaker, W.J. Neuroanatomic and neurochemical abnormalities in non-human primate infants exposed to weekly doses of ethanol during gestation. *Alcoholism: Clin. and Exper. Res.*, 1990, 14, 674-683.

Martin, R.F., Dubach, J., Bowden, D.M. NeuroNames: Human/maaque neuroanatomical nomenclature. In Symposium on Computer Applications in Medical Care: Standards in Medical Information, IEEE Computer Society Press, Los Alamitos, CA, 1990, pp. 1018-1019 .

Williams, D.D, Short, R., and Bowden, D.M. Fingernail growth as a biomarker of aging in the pigtailed macaque (*Macaca nemestrina*). *Experimental Gerontology*, 1990, 25, 423-432.

Astley, C.A., Smith, O.A., Ray, R.D., Golanov, E.V., Chesney, M.A., Chalyan, V.G., Taylor, D.J., and Bowden, D.M. Integrating behavior and cardiovascular responses: the code. *Am. J. Physiol.*, 1991, 261, 172-181.

Spelman, F.A., Astley, C.A., Golanov, E., Cupal, J.J., Henkins, A.R., Fonzo, E., Susor, T.G., McMorro, G., Bowden, D.M., and Smith, O.A. A system to acquire and record physiological and behavioral data remotely from nonhuman primates. *IEEE Trans. Biomed. Eng.* , 1991, 38:12, 1175-1185.

Crockett, C.M., Bowers, C.L., Sackett, G.P., Bowden, D.M., Urinary cortisol responses of longtailed macaques to five cage sizes, tethering, sedation, and room change, *American Journal of Primatology*, 1993, 30:55-74.

Bowden, D.M. and Smith, O.A. Conservationally Sound Assurance of Primate Supply and Diversity, *ILAR News.*, 1993, 34:4 56-59.

Dager, S.R., Kenny, M.A., Artru, A.A., Metzger, G.D., Bowden, D.M., and Rainey, J.M. Effects of Sodium Lactate Infusion on Cisternal Lactate and Carbon Dioxide Levels. (Letter) *American J. Psychiatry*, 1993, 150:10 1568.

Smith, O.A., Astley, C.A., Spelman, F.A., Golanov, E.V., Chalyan, V.G., Bowden, D.M. and Taylor, D.J. Integrating Behavior and Cardiovascular Responses: Posture and Locomotion. I. Static Analysis. *Am. J. Physiol.*, 1993, 265 (Regulatory Integrative Comp. Physiol. 34):R1458-R1468.

Bowden, D.M., Considering monkey models. (Letter) *Journal of NIH Research*, 1993, 16-18.

Bowden, D.M., Short, R., Williams, D.D., Clark, E.A., Immunologic markers in a longitudinal study of aging in pigtailed macaques (*Macaca nemestrina*). *Journal of Gerontology: Biological Sciences*, 1994, 49:B93-B103.

Short, R.A., Williams, D.D., Bowden, D.M. Modeling Biological Aging in a Nonhuman Primate, Chapter 24, pp. 409-417, in *Practical Handbook of Human Biologic Age Determination*, A. K. Balin, Ed., (CRC Press, Boca Raton), 1994.

Crockett, C.M., and Bowden, D.M. Challenging Conventional Wisdom for Housing Monkeys. *Lab Animal*, February 1994, pp. 29-33.

Crockett, C.M., Bowers, C.L. and Bowden, D.M. Sex Differences in Compatibility of Pair-Housed Adult Longtailed Macaques. *Am. J. Primatology*, 1994, 32:73-94.

Short, R.A., Williams, D.D., Bowden, D.M., Modeling biological aging in a nonhuman primate, pp. 409-417, Chapter 24 in *Practical Handbook of Human Biologic Age Determination*, Arthur K. Balin, Editor, CRC Press, Boca Raton, 1994.

Bowden, D.M., Martin, R.F., NeuroNames brain hierarchy, *NeuroImage* 2:63-83, 1995.

Dager, S.R., Yim, J.B., Khalil, G.E., Artru, A.A., Bowden, D.M. and Kenny, M.A. Application of a Novel Fiber-Optic Biosensor *In Situ* to Investigate Metabolic Effects of Lactate Infusion. *Neuropsychopharmacology*, 1995, 12:307-313.

Crockett, C.M., Bowers, C.L., Shimoji, M., Leu, M., Bowden, D.M., Sackett, G.P., Behavioral responses of longtailed macaques to different cage sizes and common laboratory experiences, *Journal of Comparative Psychology*, 109:368-383, 1995.

Bowden, D.M., Johnson-Delaney, C., U.S. primate research is alive and well in the 1990s, *Contemporary Topics in Laboratory Animal Science*, 35:6:55-57, 1996.

Martin, Richard F., Bowden, Douglas M., A stereotaxic template atlas of the macaque brain for digital imaging and quantitative neuroanatomy, *NeuroImage*, 4:119-150, 1996.

Short, R., Williams, D.D., Bowden, D.M., Circulating antioxidants as determinants of the rate of biological aging in pigtailed macaques (*Macaca nemestrina*), *J. Gerontol.: Biol. Sci.*, 52A:1:B26-B38, 1997.

Crockett, C. M., Bellanca, R.U., Bowers, C.L., Bowden, D.M. (1997) Grooming contact bars provide social contact for individually caged laboratory macaques, *Contemporary Topics in Laboratory Animal Science* 36:6:53-60.

Bowden, D.M., Martin, R.F. (1997) A digital rosetta stone for primate brain terminology, pp. 1-35 in Vol 13, *Handbook of Chemical Neuroanatomy: The Primate Nervous System, Part 1*, F.E. Bloom, A. Bjorklund, T. Hokfelt, (Eds.), Amsterdam. Elsevier Science B.V.

Martin, R.F., Bowden, D.M. (1997) *Template Atlas of the Primate Brain*, Primate Information Center, University of Washington, Seattle (76pp).

Bowers, C.L., Crockett, C.M., Bowden, D.M. (1998) Differences in stress reactivity of laboratory macaques measured by heart period and respiratory sinus arrhythmia, *American Journal of Primatology*, 45:245-261.

Crockett, C.M., Shimoji, M., Bowden, D.M., Behavior, appetite and urinary cortisol responses by adult female pigtailed macaques to cage size, cage level, room change and ketamine sedation, *Journal of American Primatology* (in press), January 2000.

Bowden, D.M., History of brain atlases for nonhuman primates, pp. 1-12 in *Primate Brain Maps*, Martin, R.F. and Bowden, D.M. Authors, Amsterdam. Elsevier Science B.V., 2000.

Bowden, D.M., Atlases for informatics and quantitative neuroanatomy, pp. 12-22 in *Primate Brain Maps*, Martin, R.F. and Bowden, D.M. Authors, Amsterdam. Elsevier Science B.V., 2000.

Bowden, D.M., Martin, R.F., Primate brain maps, pp. 23-35 in *Primate Brain Maps*, Martin, R.F. and Bowden, D.M. Authors, Amsterdam. Elsevier Science B.V., 2000.

Bowden, D.M., Martin, R.F., Mapping, pp. 36-37 in *Primate Brain Maps*, Martin, R.F. and Bowden, D.M. Authors, Amsterdam. Elsevier Science B.V., 2000.

Bowden, D.M., Dubach, M.F., Applicability of the template atlas to various primate species, pp. 38-47 in *Primate Brain Maps*, Martin, R.F. and Bowden, D.M. Authors, Amsterdam. Elsevier Science B.V., 2000

Martin, R.F., Mejino, J.L.V., Bowden, D.M., Brinkley, J.F., Rosse, C. (2001) Foundational model of neuroanatomy: implications for the Human Brain Project, *Proc. AMIA Symp.* 2001:438-42.

Kumar, P.A., Baker, L.P., Storm, D.R., Bowden, D.M. Expression of type I adenylyl cyclase in intrinsic pathways of the hippocampal formation of the macaque (*Macaca nemestrina*), *Neurosci. Let.* 299:181-184, 2001.

Bowden, D.M., Smith, O.A. The Russian primate center's international impact on biomedical research, *Baltic J. Lab. Anim. Sci.* 11:70-73, 2001.

Bowden, D.M., Dubach, M.F. NeuroNames 2002, *Neuroinformatics*, 1:43-59, 2002.

Bowden, D.M. Dubach, M.F. BrainInfo, Chapter 18 in *A Practical Guide to Neuroscience Databases and Associated Tools*, R. Koetter (Ed.), Kluwer Academic Publishers, Norwell, Massachusetts, 2002.

Bowden, D.M., Dubach, M.F. (2004) Neuroanatomical nomenclature and ontology, Chapter 2 in *Databasing the Brain: Data to Knowledge*, S. Koslow and S. Subramaniam (Eds.)

Bowden, D.M., Dubach, M. (2005) BrainInfo: a Portal to Neuroanatomy on the Web, web publication, pp1-26, BrainInfo, University of Washington
<http://braininfo.rprc.washington.edu/pdf/For%20Steinbusch%20on%20Web%20final.pdf>

Annese J, Sforza DM, Dubach M, Bowden D, Toga AW (2006). Postmortem high-resolution 3-dimensional imaging of the primate brain. Blockface imaging of perfusion stained tissue. *NeuroImage*, 30:1:61-69.

Bowden, D.M., Dubach, M., Park, Jack (2007) Creating neuroscience ontologies, Chapter 4 in *Methods in Molecular Biology: Neuroinformatics*, C. Crasto (Ed.), Humana Press, Totowa NJ

Bowden, D.M., (2007) Brodmann's areas, *Encyclopedia of Neuroscience*, Springer Verlag.

Bowden, D.M., Dubach, M., de Crespigny, A., Chalyan, V.G., Kuperman, J., Annese, J. (2007) Three-dimensional multimodal atlas of the rhesus macaque brain, in *Proceedings of Medical Primatology*, sponsored by Research Institute of Medical Primatology of the Russian Academy of Medical Science, Adler, Russia and Pitsunda, Abkhazia, Sept. 18-22, 2007.

Gardner, D., Akil, H., Ascoli, G.A., Bowden, D.M., Bug, W., Donohue, D.E., Goldber, D.H., Grafstein, B., Grethe, J.S., Gupta, A., Halavi, M., Kennedy, D.N., Marengo, L., Martone, M.E., Miller, P.L., Mueller, H-M, Robert, A., Shepherd, G.M., Sternberg, P.W., Van Essen, D.C., Williams, R.W., (2008) The Neuroscience Information Framework: a data knowledge environment for neuroscience, *Neuroinformatics* (in Press, Nov. 2008)

Leonov, Y.P., Sokolov, E.N., (Bowden, D.M. editor and translator)(2008), *The Representation of Colors in Spherical Space*, *COLOR Research and Application*, 33:2:113-124.

Fridman, E.P., Bowden, D.M. (2009) The Russian Primate Research Center --- A Survivor, *Laboratory Primate Newsletter*, 48:1:6-9.

ABSTRACTS 1985 to Present

Bowden, D.M., Dubach, M.F., Snyder, R., Askari, S., and German, D.C. Three-dimensional computer analysis of MPTP-induced aminergic cell loss in the monkey. *Society for Neuroscience Abstracts*, 1985, 11, 166

Bowden, D. M., Short, R.A., and Williams, D.D. Biomarkers of aging in pigtailed macaques (*Macaca nemestrina*). *The Gerontologist*, 1985, 25, 19.

Dubach, M., Schmidt, R., Bowden, D.M., Kunkel, D.M., *et al.* Neurons containing tyrosine hydroxylase-like immunoreactivity in the caudate and putamen of a nonhuman primate. *Society for Neuroscience Abstracts*, 1986, 12, 1327.

Schmidt, R.H., Dubach, M., and Bowden, D.M. A primate model of hemiparkinsonism based on intranigral injection of MPTP or 6-OHDA. *Society for Neuroscience Abstracts*, 1986, 12, 89.

Williams, D., Kline, G., and Bowden, D. Successful introduction of mixed age and sex macaques (*Macaca nemestrina*) into small captive social groups. *American Journal of Primatology*, 1986, 10, 440.

Short, R., Bowden, D.M., and Williams, D.D. Approaches to longitudinal analysis of biological aging in pigtailed macaques (*Macaca nemestrina*). *The Gerontologist*, 1986, 26, 78A.

Bowden, D.M. and Martin, R. Primates in Neuroscience. Invited address, Society for Neuroscience, New Orleans, November, 1987.

Clarren, S. ., Bowden, D.M., and Astley, S.J. Teratogenesis from once per week oral ingestion of ethanol in a non-human primate. *Teratology*, 1987, 35, 66A.

Clarren, S.K., Bowden, D.M., and Astley, S.J. Teratogens from weekly oral ethanol exposure in a non-human primate. *Pediatric Research*, 1987, 21, A226.

Bowden, D.M. Measuring the rate of aging in primates. Invited address, Gordon Conference on Aging, Ventura, California, March, 1988.

Bowden, D.M. and Martin, R.F. A hypercard glossary of macaque and human neuroanatomical nomenclature. *Abstracts, Society for Neuroscience*, 1988, 14, 1256.

Bowden, D.M. Four components of a conservation program for laboratory primate species. XIIIth Congress of the International Primatological Society, Brasilia, Brazil, July, 1988, p. 17.

Crockett, C.M., Sackett, G.P., Smith, O.A., Spelman, F.A., Morton, W.R., Ruppenthal, G.C., and Bowden, D.M. Space, exercise and social needs of laboratory macaques. Poster abstract, Psychological Well-Being of Captive Primates Conference, Harvard Medical School, September, 1988.

Dubach, M., Schmidt, R.H., and Bowden, D.M. Neostriatal and frontal cortical catecholamine cells in long-tailed macaques: individual variation and lesion-induced overdevelopment. *Abstracts, Society for Neuroscience*, 1988, 14, 1022.

Schmidt, R.H., Dubach, M., and Bowden, D.M. 6-hydroxydopamine lesions and rotational behavior in long-tailed macaques. *Abstracts, Society for Neuroscience*, 1988, 14, 728.

Short, R. and Bowden, D.M. Measuring the rate of biological aging in pigtailed macaques: a model for all primates. *American Aging Association*, 1988, 11:4, p. 172.

Dager, S.R., Rainey, J.M., Kenny, M., and Bowden, D.M. Lactate infusion in nonhuman primates: central and peripheral effects. Society of Biological Psychiatry Annual Meeting, 1989; and World Federation of Societies of Biological Psychiatry: Biological Aspects of Non-Psychotic Disorders Congress, Jerusalem, April 1989.

Bowden, D.M. Primate aging research in the USA and the challenge of measuring the rate of aging in long-lived species, *Experimental Animal*, 1990, 39, 183-184.

Bowden, D.M., Crockett, C., Reinhardt, V. and Crawford, R.L. Animal Care Tutorial: Psychological well-being of laboratory primates: Regulations and reality. *Soc. Neurosci. 20th Annual Mtg. Program*, St. Louis. 1990, 14-15.

Crockett, C.M., Bowers, C.L., Sackett, G.P., and Bowden, D.M. Appetite suppression and urinary cortisol responses to different cage sizes and tethering procedures in longtailed macaques. *Am. J. Primatol.*, 1990, 20, 184-185.

Bowden, D.M., Crockett, C., Sackett, G.P. and Bowers, C.L. Effects of cage size and tethering on longtailed macaques (*Macaca fascicularis*), XIIIth Congress of the International Primatological Society . Nagoya and Kyoto, Japan 1990 , p. 59.

Dager, S.R., Rainey, J.M., Kenny, M.A., Artru, A.A., Metzger, G.D., Bowden, D.M. Central effects of lactate infusion in primates. *Biological Psychiatry*, 1990, 25, A152-153.

Crockett, C.M., Bowden, D.M., Bowers, C.L. and Sackett, G.P. Social pairing of longtailed macaques with preferred, nonpreferred, and randomly assigned cagemates. *American J. of Primatol.*, 1991, 24:2, 94-95

Crockett, C.M., Bowers, C.L., Sackett, G.P. and Bowden, D.M. Behavioral responses of longtailed macaques to cage size, housing level, and tethering procedures. *Am. J. Primatol.* 1992, 27:1, 25.

Bowden, D.M., Agy, M., Anderson, D., Kimpo, C., Ha, J. and Sackett, G. Neurobehavioral aids induced by SIV_{Mne} Or HIV-1 in infant pig-tailed macaques (*Macaca nemestrina*) IXth International Conference on AIDS, Berlin 1993, in press.

Bowers, C.L., Crockett, C.M., Shimoji, M., Bellanca, R. and Bowden, D.M. Heart rate variability and psychological well-being. 16th Annual Meeting, American Society of Primatologists, Sturbridge, Massachusetts 1993, in press.

Crockett, C.M., Bowers, C.L., Shimoji, M., Leu, M. Bellanca, R., and Bowden, D.M. Appetite and urinary cortisol responses to different cage sizes in female pigtailed macaques. 16th Annual Meeting, American Society of Primatologists, Sturbridge, Massachusetts 1993, in press.

Leu, M., Crockett, C.M., Bowers, C.L. and Bowden, D.M. Changes in activity levels of singly housed longtailed macaques when given the opportunity to exercise in a larger cage. 16th Annual Meeting, American Society of Primatologists, Sturbridge, Massachusetts 1993, in press.

Crockett, C.M., Bowers, C.L., Shimoji, M., Bellanca, R., Bowden, D.M. Behavioral responses to four sizes of home cage by adult female pigtailed macaques. *American Journal of Primatology*, 1994, 33(3):203-204.

Crockett, C.M., Bowers, C.L., Shimoji, M., Bellanca, R., Bowden, D.M. How often do singly housed longtailed macaques choose grooming contact with a neighbor when provided the opportunity? XVth Congress of the International Society of Primatologists Handbook and Abstracts, 1994, p. 256.

Bowden, D.M., Martin, R.F. MacacAtlas: a comprehensive computerized stereotaxic atlas of the brain of *Macaca fascicularis*, Congress of the International Society of Primatologists Handbook and Abstracts, 1994, p. 416.

Bowden, D.M., Collaborative research, training and natural habitat breeding projects in Indonesia, Congress of the International Society of Primatologists Handbook and Abstracts, 1994, p. 325.

Martin, R.F., Bowden, D.M., MacacAtlas - a computerized stereotaxic atlas of *Macaca fascicularis* based on internal landmarks, *American Journal of Primatology*, 1994, 33:227.

Crockett, C.M., Bowers, C.L., Shimoji, M., Bellanca, R., Bowden, D.M. How often do singly housed longtailed macaques choose grooming contact with a neighbor? *American Journal of Primatology*, 1995, 36:118.

Bellanca, R.U., Crockett, C.M., Bowers, C.L., Bowden, D.M. Urinary free cortisol as a measure of psychological well-being in laboratory macaques housed in grooming-contact cages, abstract, International Primatological Society and American Society of Primatologists. Madison, Wisconsin: 1996.

Bowers, C.L., Crockett, C.M., Bellanca, R.U., Bowden, D.M. Individual differences in stress reactivity measured by heart period and RSA, abstract, International Primatological Society and American Society of Primatologists. Madison, Wisconsin: 1996.

Crockett, C.M., Bellanca, R.U., Bowers, C.L., Bowden, D.M. Grooming-contact bars provide social contact while preventing pregnancy in male-female pairs of laboratory macaques, abstract, International Primatological Society and American Society of Primatologists. Madison, Wisconsin: 1996.

Crockett, C.M., Bowers, C.L., Bellanca, R.U., Bowden, D.M. Anxiolytic drug effects on responses of longtailed macques exposed to a laboratory stressor. *American Journal of Primatology*, 42(2):103-104, 1997.

Crockett, Bellanca, R.U., C.M., Bowers, C.L., Bowden, D.M. Cortisol responses of longtailed macaques to increased social stimulation. Meeting of American Society for Primatologists, June-July, 1998; *American Journal of Primatology*, vol 45, June, 1998, Abstract #175

Bowden, D.M., Martin, R.F., Robertson, J.E., Dubach, J.G., Neuronames and a template atlas of the macaque brain, Abstracts of Society for Neuroscience (Los Angeles, CA, Nov. 7-12, 1998) 1:161,1998.

Robertson, J.E., Martin, R.F., Brinkley, J.F., Dubach, M.F., McLean, M.R., Bowden, D.M., NeuroNames and the template atlas, WebNet '98 World Conference of the WWW, Internet & Intranet, Orlando, FL. November 7-12, 1998.

Bowden, D.M., BrainInfo: web neuroscience resource based on NeuroNames, a template brain atlas, Edgewarp and Geographic Information Systems software, Annual Spring Meeting of Human Brain Project Research, National Institutes of Health, Bethesda, June 3-4, 1999.

Bowden, D.M., Robertson, J.E., Martin, R.F., Dubach, M.F., Wu, J.S., McLean, M.R., Brinkley, J.F., Web-tools for neuroscience based on NeuroNames, a template brain atlas, Edgewarp and Geographic Information Systems software, Fifth International Conference on Functional Mapping of the Human Brain, Duesseldorf, Germany, June 23-26, 1999.

Bowden, D.M., Robertson, J.E., Martin, R.F., Wu, J.S., McLean, M.R., Brinkley, J.F., BrainInfo: a primate brain atlas & neuroanatomic resource based on geographic information systems (GIS) software, Society for Neuroscience Abstract #47.23, Miami Beach, October 23-28, 1999.

Martin, R.F., Mejino, J.L.V., Bowden, D.M., Brinkley, J.F., Mulligan, K., and Rosse, C., A next-generation knowledge source: foundational model of neuroanatomy, Society for Neuroscience Abstract, San Diego, November 2001.

Dubach, M.F., Bowden, D.M. BrainInfo enables mapping of data to neuroanatomical templates for quantitative comparisons, publication and web-display, Society for Neuroscience Abstract, San Diego, November 2001.

Bowden, D.M., The US Primate Research Centers Program: Organization and Research Mission, Tsukuba Primate Center, Tsukuba, Japan, February, 2002.

Bowden DM, Dubach M, Annese J, Toga AW, Sereno MI (2004) Spatial Indexing: The Key to Analysis of Massive Neuroanatomical Databases, Human Brain Project Annual Conference, Bethesda, MD, April, 2004 (Abstract)

Dubach M, Bowden DM (2003) BrainInfo: an Online Image Database of the Architectonic Literature, Society for Neuroscience Annual Meeting, New Orleans, November 2003 (Abstract)

Bowden DM, Dubach M (2004) BrainInfo: A Symbolic and Spatial Information Resource for Human Brain, The Human Brain II, Rome, October 2004 (Abstract)

Bowden DM, Marengo L (2004) Interoperability for Brain Information Repositories – NeuroNames, Human Brain Project Directors Meeting, Davis CA, March 2004 (Abstract)

Bowden DM, Dubach M, Annese J, Toga AW, Sereno M (2004) Spatial indexing: the key to analysis of massive neuroanatomical databases, A Decade of Neuroscience Informatics: Looking Ahead, annual meeting of Human Brain Project, NIMH, Bethesda, April 2004 (Abstract)

Annese, J., D'Arceuil, H., Kuperman J., Dai G., Bowden, D.M., Dale, A.M., de Crespigny A. "Validation of Diffusion Tensor MRI (DTI) Tractography by Histological Staining and Reconstruction". 12th Annual Meeting of the Organization for Human Brain Mapping. Florence, Italy June 11-15, 2006 (Abstract)

Kuperman, J., de Crespigny A., Bowden, D.M., Dale, A.M., Sereno, M. and Annese, J. "High Resolution MRI-based Anatomical Mapping of the Primate Brain Validated by Histological Analysis". 12th Annual Meeting of the Organization for Human Brain Mapping. Florence, Italy. June 11-15, 2006 (Abstract)