

Bruce C. Albright, Ph.D., PT
Curriculum Vitae

EDUCATION

Medical College of Virginia, PhD, Anatomy and Cell Biology, 1974

Medical College of Virginia, M.S. Physical Therapy, 1972

University of Maryland, B.S. Physical Therapy, 1969

ACADEMIC APPOINTMENTS

Allied Health Sciences, East Carolina University, 1990-present

Interim Chairman, Department of Occupational Therapy, School of Allied Health Sciences, East Carolina University, 1994-1995

Associate Professor, Department of Anatomy and Cell Biology, School of Medicine, University of North Dakota, Grand Forks, ND 58202 (701) 777-2101, 1979-1990

Assistant Professor, Department of Anatomy and Cell Biology, School of Medicine, University of North Dakota, 1974-1978

PROFESSIONAL LICENSE

Physical Therapy, North Carolina #4327

ADMINISTRATIVE EXPERIENCE AND SERVICE

East Carolina University

General:

Graduate Faculty

North Carolina Council on Allied Health, 1990-1991, (representative for allied health programs within the Universities of North Carolina)

University:

Faculty Governance Committee

Senate (alternate and full member)

Academic Integrity Board

School of Allied Health Sciences:

Administrative Council

Allied Health Long Range Planning Committee

Practice Plan Task Force (chair)

Promotion and Tenure Committee

Strategic Planning Committee 1995-2000

Department of Physical Therapy:

Professor (1990 to present) and Chair (1990 to 2000)

Chief Administrator, Department Outpatient PT clinic (1990-1996)

University of North Dakota, School of Medicine

General:

Member of Graduate Faculty, 1975-1990

University Graduate Committee, 1978-1981

University Senate, Medical School Representative, 1977-1978

Medical School:

Scholastic Standards and Evaluation Policies Committee, 1988-1990

Dean's Veterans Administration Hospital Committee, 1988

Evaluation, Policy and Curriculum Committee, 1977-1980, 1986; committee chair 1987-1990

Department of Physiology Search Committee for Department Chair, 1988

Scholastic Standards and Evaluation Policy Committee, 1987-1990

Faculty Academic Council, 1984-1987

Research Committee, Chairman, 1977-1978

Professional and Academic Qualifications Committee Department of Physiology, chairman, 1977-1978

Subcommittee on "Objectives" for Medical School LCME Self Evaluation, 1977-1978

North Dakota Medical Education and Research Foundation, 1981-1983

Department of Anatomy and Cell Biology:

Vice Chairman, 1988 to 1990

Research and Program Development Committee, 1983 to 1990

Promotion and Tenure Committee, 1980 to 1990

Course Director, Medical Neuroscience course, 1978 to 1990

Departmental Subcommittee for Promotion, Evaluation and Tenure, Chairman 1984, 1986, 1987, 1988

Special Review Subcommittee on Faculty Grievances, chairman 1986

Supervisor for departmental EM lab technician, 1986 to 1990

Graduate Committee, 1981 to 1990

Graduate Student Recruitment Committee, Chairman, 1980 to 1981

Search Committee for Department Chair, 1979 to 1981

Advanced Anatomy for Physical and Occupational Therapy students

INSTRUCTIONAL EXPERIENCE

East Carolina University:

Neuroanatomy

Medical Neurosciences

Physical Therapy Neuroscience

Physical Medicine and Rehabilitation Resident Training Program, participant

Advanced Therapeutic Exercise

Techniques in Rehabilitation

Basic Therapeutic Exercise

Orthotics and Prosthetics

Life span motor control issues

University of North Dakota, School of Medicine:

Neuroanatomy

Medical Neuroscience (medical and graduate students), participant since 1974, Director 1979 to 1990

Musculoskeletal Anatomy (including dissection) to P.T. and O.T. students, Director from 1974 to 1988

Basic Neurohistochemistry, specialty graduate course, organizer, participant, 1976

Developmental Neurobiology, specialty graduate course, organizer, participant, 1977

Comparative Neuroanatomy, specialty graduate course, organizer, participant

Clinical Neuroscience for practicing physical therapists

Cell Biology, specialty graduate course, participant

Neuroscience for Nurse anesthetists, 1978

TEACHING INTERESTS

Basic and applied neuroscience, motor control, plasticity

Developmental neuroscience and developmental neurobehavior

Assessment, treatment theories and techniques for the neurorehabilitation

Functional Anatomy and Musculoskeletal anatomy

Orthotics and Prosthetics

General Rehabilitation

Cell biology of tissue injury, healing and repair

VISITATIONS/HONORS

Grant writing workshop, Allied Health Special Projects and Rural Interdisciplinary Programs, Division of Associated Health Professions, Health Resources and Services Administration. Oct. 1992

Short course, Stereology and Morphometry, Woods Hole, MA, Nov. 28- Dec. 2, 1988

Association of American Medical Colleges, Special Interest Group and Workshop on "Curriculum Committees and Changes at the Institutional Level": Chicago, Nov. 12-16, 1988

Invited Speaker, Department of Health Sciences, Cleveland State University, Cleveland, OH, May 15, 1988: "CNS Responses to PNS Disorders"

Visiting Scientist, Department of Anatomy, University of Manitoba, Winnipeg, Manitoba, Canada, 1986

Invited Speaker, School of Health and Life Sciences, Program in Physical Therapy, University of Delaware, Fall, 1986: "Anatomical Correlates for Modality Segregation in the Dorsal Column Nuclei"

Representative for Department of Neuroscience at the Association of Neuroscience Department and Programs, Washington, DC, Fall, 1986

Invited Speaker, Department of Anatomy, University of South Carolina, Summer 1984: "The Dorsal Column nuclei and the Question of Modality Segregation."

Poster presentation International Symposium on the development and plasticity on the mammalian spinal cord. Spoleto, Italy, Sept. 1984: "The Synaptic Development of the Cuneate Nucleus in Normal and Somatosensory Impaired Kittens"

Invited Speaker, State Meeting, North Dakota Chapter, American Physical Therapy Association, 1983: "CNS Recovery Mechanisms."

GRANTS AWARDED

Institutional Funding:

Distribution of dorsal root fibers to Clarke's column and dorsal column nuclei in Tupaia and Galago. \$4755, 1974

The distribution of fibers originating from the gracile and cuneate nuclei in the bushbaby. \$1400, 1975

Electron microscopic study of brachial cord primary afferents to the cuneate nucleus in the lesser bushbaby. \$1570, 1976

The origin and distribution of nonprimary spinal afferents to the dorsal column nuclei in Galago. \$1708, 1977

The dorsal column nuclei: development and plasticity. \$3700, 1983

The effects of peripheral nerve injury on the central terminals of primary afferents and other neuropil components in the gracile nucleus of the adult rat. \$2687, 1987

Extramural Funding:

NSF: The organization of the dorsal column nuclei and their relationship to behavioral specializations. (principal investigator) \$110,000, 1979-1982

PUBLICATIONS

Albright, B.C. and D.E. Haines. 1973. The morphology of Clarke's column in the lesser bushbaby (*Galago senegalensis*). *Brain Behav. Evol.*, 8:165-190.

Albright, B.C. and D.E. Haines. 1974. Dorsal root afferent to Clarke's column from hindlimb cord levels in Tupaia and Galago. *Brain Behav. Evol.*, 10:274-289.

Haines, D.E., B.C. Albright, G.E. Goode and H.M. Murray. 1974. The external morphology of the brain of some Lorisidae. In: R.D. Martin, G.A. Doyle and A.C. Walker (eds.), *Prosimian Biology*, Duckworth Co., Ltd., London, England.

Haines, D.E., H.M. Murray, B.C. Albright and G.E. Goode. 1974. Comparative neuroanatomy of prosimian primates: some basic concepts bearing on the evolution of upright locomotion. In: A.B. Chiarelli (ed.), *Advances in Behavioral Biology*, Vol. 9, *Perspectives in Primate Biology*, pp.29-92. Plenum Press.

Haines, D.E., G.E. Goode, B.C. Albright and H.M. Murray. 1975. Some neuro-anatomical aspects of primate locomotor evolution. *J. Human Evol.*, 4:103-111.

Albright, B.C. 1978. Dorsal column nuclei in a prosimian primate (*Galago Senegalensis*). Gracile nucleus: Morphology and primary afferent fibers from low thoracic, lumbosacral and coccygeal spinal segments. *Brain, Behav. and Evol.*, 15:63-84.

Albright, B.C. and B.G. Sawler. 1981. A microcomputer system for the data acquisition and quantitative analysis of synaptic relationships in the central nervous system. *Biomed. Sci. Instr.*, 17:21-26.

Albright, B.C. and D.J. Friedenbach. 1982. The distribution of lateral funicular and cortical fibers to the dorsal column, Z, and X nuclei in the prosimian Galago. *Neuroscience*, 7:1175-1185.

Ostapoff, M.E., J.I. Johnson and B.C. Albright. 1983. Mechanosensory projections to the dorsal column nuclei in a tree squirrel (fox squirrel, *Sciurus niger*). *Neuroscience*, 9:107-127.

Albright, B.C., J.I. Johnson and M.E. Ostapoff. 1983. The projection of cervical primary fibers to DCN of the squirrel, *Sciurus niger*: Fiber sorting in the dorsal columns. *Brain, Behav. and Evol.*, 22:118-131.

Wells, J. and B.C. Albright. 1983. Synaptic arrangements in the ventral lateral nucleus of the squirrel. *Brain, Behav. and Evol.*, 22:165-174.

Culberson, J.L. and B.C. Albright. 1984. Morphological evidence for fiber sorting in the fasciculus cuneatus. *Exp. Neurol.*, 85: 358-370.

Ostapoff, M.E., J.I. Johnson and B.C. Albright. 1988. Medullary sources of projections to the kinesthetic thalamus in raccoons: External and basal cuneate nuclei and cell groups X and Z. *J. of Comp. Neurol.*, 267:231-252.

Abstracts

Albright, B.C. and D.E. Haines. 1972. Morphology of Clarke's column in *Galago senegalensis*. *Anat. Rec.*, 172:447.

Albright, B.C. 1973. Dorsal root projections to Clarke's column from selected hindlimb spinal cord levels in the lesser bushbaby. *Anat. Rec.*, 178:297.

Haines, D.E., H.M. Murray, B.C. Albright and G.E. Goode. 1974. Neuroanatomical correlates of locomotor behavior. *Am. J. Phys. Anthrop.*, 41:483.

Albright, B.C. 1976. Dorsal root afferent to the dorsal column nuclei from cervical and upper thoracic levels in Galago. *Anat. Rec.*, 184:341.

Albright, B.C. 1977. Primary and nonprimary spinal afferent to the gracile-Z nuclear complex in Galago. *Soc. Neurosci.*, 3:475.

Friedenbach, D.J. and B.C. Albright. 1979. Quantitative fine structural analysis within the nucleus gracilis and nucleus Z of *Galago senegalensis*. *Anat. Rec.* 193:542.

Albright, B.C. 1980. The distribution of cervical dorsal root to the dorsal column nuclei in the tree squirrel. *Anat. Rec.*, 199:144.

Albright, B.C. 1980. Quantitative EM analysis of the normal synaptic organization of the raccoon cuneate nucleus. *Soc. Neurosci.*, 6:64.

Wells, J. and B.C. Albright. 1981. Somatotopic organization of subcutaneous projections from tail, hindlimb and abdomen to nucleus Z in fox squirrels. *Soc. Neurosci.*, 7:394.

Albright, B.C. and J.I. Johnson. 1982. The synaptic organization and termination of lateral funicular fibers in rostral gracile-Z nuclei of the tree squirrel. *Anat. Rec.*, 202:5.

Albright, B.C., J.L. Culberson and L.M. McCann. 1982. Morphological evidence of fibers sorting in the dorsal columns: A comparative study. *Soc. Neurosci.*, 8:1026.

Albright, B.C. and T.R. Gest. 1983. Postnatal synaptic development of the feline cuneate nucleus. *Anat. Rec.*, 205:6.

Culberson, J.L., B.C. Albright, and L.M. McCann. 1983. A comparative study of fiber sorting in cervical dorsal column afferents. *Anat. Rec.*, 205:41.

Albright, B.C. and T.R. Gest. 1984. The effects of impaired somatosensory input upon the synaptic development of the feline cuneate nucleus. *Anat. Rec.*, 28:6-7.

Albright, B.C., and T.R. Gest. 1984. The synaptic development of the cuneate nucleus in normal and somatosensory impaired kittens. *International Symposium on development and plasticity of the mammalian spinal cord, Spoleto, Italy, September 16-20, 1984.*

Albright, B.C. 1989. The morphology of primary afferent terminals in the rat gracile nucleus following peripheral nerve injury. *Anat. Rec.* 223:7A.

Albright, B.C., M.R. Brown and H.R. Knull. 1991. Ultrastructural changes in the dorsal column nuclei of diabetic rats. *Soc. Neurosci.*, 17:1003.