

CURRICULUM VITAE

FOR

David H. Hauge, M. Sc., M.D., F.A.A.N.S., F.A.C.S.

Diplomate of the American Board of Neurological Surgery

March 13, 2021

BIOGRAPHICAL DATA:

Date of Birth: January 29, 1955

Place of Birth: Fairmont, West Virginia

DETAILS OF EDUCATION:

High School: Fairmont Senior High School
Fairmont, West Virginia 1969 – 1973
High School Diploma, 1973

College: College of Wooster
Wooster, Ohio 1973 – 1977
Bachelor of Arts Degree, Biology, 1977

Postgraduate: School of Medicine, Saint Louis University
Department of Anatomy and Neurobiology
St. Louis, Missouri
Graduate Fellow 1978 - 1980
Master of Science (Research)
Anatomy (Neuroanatomy) 1982

Professional: West Virginia University School of Medicine
Morgantown, West Virginia 1980 – 1984
Doctor of Medicine Degree, 1984

Hospitals and Clinics of the Medical College of Georgia
Augusta, Georgia

Intern in General Surgery 1984-85

Resident in Neurological Surgery 1985 – 1988

Chief Resident in Neurological Surgery 1988-1989

Senior Resident in Neurological Surgery assigned to the Department of Physiology and Endocrinology School of Medicine 1989 – 1990 (Research year)

CURRENT OCCUPATION:

Neurosurgeon

Neurosurgical Associates, P.C.
Suite 200
9314 Park West Blvd.
Knoxville, Tennessee 37923-4344
Phone: 865- 694-0577
Fax: 865-694-4720
April 1, 2017-present

Neurosurgery & Spine Consultants of East Tennessee, P.C.
Suite 200
9314 Park West Blvd.
Knoxville, Tennessee 37923
Phone: 865-694-0577
Fax: 865-694-4720
July 1, 1990- April 1, 2017
(Corporation dissolved April 5, 2018)

Positions and Responsibilities while employed with
Neurosurgery & Spine Consultants of East Tennessee:

1. Elevated to partner status, July 1992
2. Managing partner of group, 2000 – 2001 (rotating one year position)
3. Named Corporate Compliance Officer October 1998 – October 2003
 - A. Initiated and developed corporate compliance program encompassing all aspects of the practice.
 - B. Developed E/M template guides for both new and established patients.
 - C. Initiated and supervised E/M audits 1999 to 2017
 - D. Initiated and developed implementation of HIPAA program from 2002 to October of 2004.

4. Served as Chief of Surgery, Baptist Hospital West/Baptist Hospital for Women, January 2003 to January 2004.
5. Served as Chief of Staff Elect, Baptist Hospital West/Baptist Hospital for Women, 2004.
6. Chairman of Credentials Committee, Baptist Hospital West/Baptist Hospital for Women. As chairman of this committee also served as Chairman of Vascular Ad Hoc Committee responsible for guiding the development of credentialing guidelines for endovascular treatment techniques used by cardiologists, radiologists, and general vascular surgeons.
7. Medical Director of Baptist Regional Gamma Knife Center, Baptist Hospital of East Tennessee, July 4, 2004 – December 31, 2010.
8. Chief of Staff, Baptist Hospital West/Baptist Hospital for Women, 2005.
9. Managing Partner, Neurosurgery & Spine Consultants of East Tennessee, November 16, 2004 – December 31, 2005, (rotating one year position), named to President, Neurosurgery & Spine Consultants of East Tennessee, P.C., November 16, 2004.
10. Elected to Baptist Healthcare System Board of Directors, two-year term, January 1, 2006 – December 31, 2007.
11. Appointed to Baptist Healthcare Systems/Wellspring partners Physician Advisory Council – June 2007 – December 2007.
12. Appointed to Baptist Healthcare Systems/Wellspring partners Physician Steering Committee – July 2007 – December 2007.
13. Appointed to Mercy Health Partners Physicians Advisory Committee – January 1, 2008.
14. Appointed to Mercy Health Partners Quality, Safety and Professional Relations Committee – January 1, 2008.

15. Managing Partner, Neurosurgery & Spine Consultants of East Tennessee, P.C., January 1, 2008, to December 31, 2009 (one year rotating position)
16. Appointed to Covenant Health Physicians Advisory Council, January 2009-2016.
17. Appointed Medical Director of Ft. Sanders Regional Medical Center Gamma Knife Center at Thompson Cancer Survival Center, December 18, 2010 to present.
18. Member of Gamma Knife transition team for Ft. Sanders Regional Gamma Knife Center at Thompson Cancer Survival Center, Knoxville, Tennessee – August 1, 2010 – December 31, 2011. Participated in transfer of Gamma Knife Radiosurgical services from Mercy Riverside Hospital Center. Coordinated development of policies and procedures manual, participated in construction and implementation of Gamma Knife Radiosurgical suite, responsible for coordinating recruitment and credentialing of Gamma Knife Radiosurgery participating neurosurgeons and radiation oncologists.
19. Member, Neurosciences Quality Committee, Fort Sanders Regional Medical Center, January 2011-present
20. Managing partner, Neurosurgery & Spine Consultants of East Tennessee, P.C., January 1, 2013 – December 31, 2013 (rotating position).
21. Covenant Health Neuro/Stroke Service Line Committee, January 2015- present
22. Member ,Perioperative Executive Steering Committee, Parkwest Medical Center, October 2017- Present
23. Member, Medical Executive Committee, Parkwest Medical Center, January 1, 2019-present
24. Managing Partner, Neurosurgical Associates, April 1, 2019- present
25. Consultant, RTI Technologies, August 2019-present

26. Trustworthy and Reliable Designation- Nuclear
Regulatory Agency -Gamma Knife

27. CEO Neuro-Care Resources and Consulting, PLLC
January 28, 2020- present

HOSPITAL AFFILIATION:

Attending Neurosurgeon
Park West Medical Center,
Knoxville, Tennessee, July 1990 – present

Attending Neurosurgeon
Ft. Sanders Regional Medical Center
Knoxville, Tennessee
Knoxville, Tennessee 1998 – 2000; November 2010Present
(Gamma Knife Center)

Attending Neurosurgeon
Baptist Hospital West/Baptist Hospital for Women
Knoxville, Tennessee 2003 – May 1, 2009

Consulting Neurosurgeon
Baptist Hospital West/Baptist Hospital for Women
Knoxville, Tennessee May 1, 2009 – December 31, 2009
Gamma Knife Radiosurgery privileges only.

Attending Neurosurgeon
Baptist Hospital of East Tennessee
Knoxville, Tennessee, July 1990 – July 2008

Attending Neurosurgeon
St. Mary's Memorial Medical Center
Knoxville, Tennessee May 2008 – December 31, 2008

Attending Neurosurgeon
Ft. Sanders Regional Medical Center
Knoxville, Tennessee November 1, 2010 – present

Attending Neurosurgeon
Turkey Creek Medical Center, Knoxville Tennessee,
July 2018-present

BOARD CERTIFICATIONS / LICENSURE

American National Board of Medical Examiners
June 1985

American Board of Neurological Surgery Certification
Examination, part I Passed for Credit
March 1987 and March 1988.

American Board of Neurological Surgery Oral Boards
Certified- May 1994 (non-time limited certificate).
Voluntary participation in Maintenance of Certification,
2013-present

Medical license Georgia, 1985 permanent #028170
Renewed 1990 (inactive)

Medical license Tennessee, 1990 #020514

DEA Number: Available upon request

NPI: 1417946559

AWARDS AND HONORS:

Honors recognition for Senior Independent Study Thesis, “Changes in Blood glucose, Plasma Triglyceride, Hematocrit, and Body Weight Levels during Gestation in the Rat” submitted in partial fulfillment of requirements for Bachelor of Arts Degree, Biology College of Wooster, 1977.

“Passed with Distinction” oral defense of Master of Science, Research Thesis, “The Projections of the Dorsal Column Nuclei to the Thalamus in the Rat” submitted in partial fulfillment of the requirements for Master of Science Degree, Research Anatomy, Saint Louis University School of Medicine, 1982.

PROFESSIONAL AND SCIENTIFIC SOCIETIES

Knoxville Academy of Medicine, 1991

Tennessee Medical Association, 1991

American Medical Association, 1984

American Association of Neurological surgeons (Candidate Member) 1991
Elected to full membership November 1994

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PROFESSIONAL AND SCIENTIFIC SOCIETIES (continued)

Congress of Neurological Surgeons
Elected to full membership January 1995

AANS/CNS Joint Section on Tumors
Elected to full membership October 1994

American Society for Stereotactic and Functional Neurosurgery
Elected to full membership 1994

Fellow of the American College of Surgeons
Inducted October 1995

Leksell Gamma Knife Society, June 2008 – present

International Radiosurgical Society, May 2018-present

CONTINUING MEDICAL EDUCATION:

Annual Meeting of American Association of Neurological Surgeons
Denver, Colorado April 1986

Review and Update in Neurobiology
Woods Hole Oceanographic Institute, Woods Hole, Massachusetts November 1986

Review Course in neuroradiology and Neuropathology
Armed Forces Institute of Pathology, Bethesda, Maryland January 1988

Course in Stereotactic Neurosurgery
Piedmont Hospital, Atlanta, Georgia October 27 – 28, 1989

Congress of Neurological Surgeons meetings
Attendance at three hour course in stereotactic neurosurgery
Atlanta, Georgia October 28 – November 2, 1989

American Association of Neurological Surgeons Meeting
New Orleans, Louisiana April 1991

UCLA Workshop on Stereotactic Radiosurgery
Los Angeles, California August 1993

Introduction to Neuro-Endoscopy Workshop
University of Cincinnati Mayfield Neurological Institute
Cincinnati, Ohio September 1993

Congress of Neurological Surgeons Annual Meeting
Vancouver, British Columbia October 1993

CONTINUING MEDICAL EDUCATION (continued)

American Association of Neurological Surgeons Meeting
Orlando, Florida April 1995

Midas Rex Instrumentation Course and Certification
Orlando, Florida April 1995

Advanced Image – Guided Stereotactic Surgery and Frameless Techniques Meeting
Scottsdale, Arizona November 1995

Congress of Neurological Surgeons Meeting
Montreal, Quebec October 1996

Stealth Station Image Guided Surgery System for Cranial and Spinal
Applications Training Course
Memphis, Tennessee February 26, 1997

The Ninth Annual International Spine Workshop – Cervical Course
Uniformed Services University of the Health Sciences
Bethesda, Maryland may 10 – 13, 1997

SPINETECH-BAK Lumbar Interbody Fusion Course
Westin Hotel Charlotte, North Carolina November 21, 1997

American Association of Neurological Surgeons Meeting
Philadelphia, Pennsylvania April 1998

Neuro-Oncology Symposium – Current Concepts 1999
The Cleveland Clinic Foundation
The Registry Resort Naples, Florida February 14 – 18, 1999

Reimbursement Update for Neurosurgeons: Neurosurgical Billing/Coding for Efficiency
Sponsored by the American Association of Neurological Surgeons
The Peabody Hotel Memphis, Tennessee February 25 – 27, 1999

Advanced Coding and Reimbursement Concepts in neurosurgery
Sponsored by the American Association of Neurological Surgeons
Boston, Massachusetts August 5 – 7, 1999

Congress of Neurological Surgeons Meeting
Boston, Massachusetts October 31 – November 4, 1999

Sulzer Spine Tech Pedicle Screw Instrumentation Course
University of Pittsburgh Center of Excellence
Pittsburgh, Pennsylvania August 17 – 19, 2000

CONTINUING MEDICAL EDUCATION (continued)

13th Annual International Spine Workshop
Thoracolumbar instrumentation Course
Uniformed Services University of the Health Sciences
Bethesda, Maryland June 2001

American Association of Neurological Surgeons Meeting
Toronto, Canada April 2001

Managing Coding and Reimbursement Challenges in neurosurgery
Atlanta, Georgia November 16 – 17, 2001

Microsurgery of Aneurysms
Saint Louis University School of Medicine – Practical Anatomy Laboratory
Saint Louis, Missouri March 11 – 15, 2002

Congress of Neurological Surgeons Meeting
Philadelphia, Pennsylvania September 23 – 27, 2002

15th Annual Spine and Peripheral Nerve Workshop, Thoracolumbar Course
Uniform Services University of the Health Sciences
Bethesda, Maryland June 4 – 7, 2003

American Association of Neurological Surgeons Meeting
Orlando, Florida May 2004

Principles and Practice of Gamma Knife Radiosurgery
University of Pittsburg Medical Center
Pittsburg, Pennsylvania July 16, 2004

17th Annual Bethesda Spine Workshop: Cervical Spine Course/Thoracolumbar Course
Uniform Services University of Health Sciences
June 10 – 14, 2005

Congress of Neurological Surgeons Meeting
Boston, Massachusetts October 8 – 11, 2005

American Association of Neurological Surgeons Meeting
Washington, D.C. April 2007

Bethesda Spine Workshop: Cervical and Thoracolumbar Courses
Uniform Services University of the Health Sciences
Bethesda, Maryland April 11 – 14, 2008

14th Leksell Gamma Knife Society Meeting
Quebec City, Quebec Canada may 19 – 23, 2008

CONTINUING MEDICAL EDUCATION (continued)

Congress of Neurological Surgeons meeting Orlando, Florida
September 2008

American Association of Neurological Surgeons Meeting
Philadelphia, Pennsylvania May 2010

15th Annual International Leksell Gamma Knife Society Meeting
Athens, Greece may 16 – 20, 2010

Gamma Knife Perfexion Upgrade Course
Ft. Sanders Regional Medical Center
Knoxville, Tennessee January 15 – 16, 2011

Congress of Neurological Surgeons Meeting
Washington, D.C. September 2011

Minimally Invasive Spine Solutions Course
Medical Innovations and Training Institute (MITI)
Zimmer Spine – Henderson, Nevada October 21 – 22, 2011

16th International Leksell Gamma Knife Meeting
Sydney, Australia March 24 – 29, 2012

The Sixth Annual Cervical Spine Decompression and Stabilization Course
Practical Anatomy and Surgical Education Saint Louis School of Medicine
Saint Louis, Missouri February 21 – 23, 2013

American Association of Neurological Surgeons Meeting
New Orleans, Louisiana April 17 – May 1, 2013

17th International Leksell Gamma Knife Society Meeting
New York City, NY , May 11-15, 2014

Congress of Neurological Surgeons Meeting
Boston, Massachusetts October 2014

American Association of Neurological Surgeons Meeting
Chicago, Illinois, April 2016

18th International Leksell Gamma Knife Society Meeting
Amsterdam, The Netherlands May 2016

Congress of Neurological Surgeons Meeting, Boston Massachusetts, October 2017

19th International Leksell Gamma Knife Society meeting
Dubai, United Arab Emirates, March 4 -9, 2018

American Association of Neurological Surgeons meeting, San Diego, California
April 2019

CME- continued

Gamma Knife Training Program (RP21121-030121)-
UT Southwestern Medical Center, Dallas , Texas March 1-5, 2021
23.00 AMA PRA Category 1 Credits

PRESENTATIONS AND LECTURES:

Automated Percutaneous Lumbar Discectomy: An Initial Experience

Medical Association of Georgia / Georgia Neurological Society
Atlanta, Georgia November 12 – 13, 1988

Primary Lymphoma of the Central Nervous system: Report of Two Cases

Georgia Neurological Society
Atlanta, Georgia November 1989

Stereotactic Neurosurgery

East Tennessee Association of Recovery Room Nurses
Knoxville, Tennessee October 1992

PRESENTATIONS AND LECTURES: (continued)

Stereotactic Radiosurgery

East Tennessee Association of neuroscience Nurses
Knoxville, Tennessee April 1994

Intracranial Hypertension: Evaluation and Monitoring

Smokey Mountain Critical Care Nurses Association
Knoxville, Tennessee November 14, 1999

Multidisciplinary Stroke Intervention and Intracranial Pressure Monitoring

Patricia Neal Center Stroke Conference
Marriott Hotel Knoxville, Tennessee May 3, 2002

Worker's Compensation

The Injured Worker: Evaluation and Management of Lumbar Spine Injuries

East Tennessee Association of Workers Compensation/Rehab Nurses
Knoxville, Tennessee March 1997

**The Injured Worker: Peripheral Nerve and Cervical Spine Injuries
in the Work Place**

Smokey Mountain Association of Occupational Health Nurses
Knoxville, Tennessee April 1999

BAK Interbody Fusion System

Tennessee Valley Chapter of CMSA
Knoxville, Tennessee May 18, 1999

Worker's Compensation (continued)

BAK Interbody Fusion System

National Association of Orthopedic Nurses – Knoxville Chapter
Park West Hospital, Knoxville, Tennessee September 22, 1999

The Injured Worker: Evaluation of Worker's Compensation Spinal

Problems Mid- South Worker's Compensation Association Eleventh Annual
Conference, River Terrace Resort and Convention Center Gatlinburg, Tennessee
October 25, 2002

Panel Discussion Worker's Compensation

Guest Speaker – Mid-South Worker's Compensation Case Managers Association
Park Vista Hotel Gatlinburg, Tennessee October 21, 2005

Worker's Compensation

Presentation – Healthsouth/Hovis Orthopedic
Worker's Compensation Symposium
Buddy's Banquet Hall Knoxville, Tennessee June 22, 2006

Worker's Compensation

The Failed Back Syndrome-the Midsouth Case Workers Compensation Case
Workers Association, The Foundry Restaurant, Knoxville Tennessee, January 19,
2007.

Worker's Compensation

Presentation-Worker's Compensation Around the World, 2016 Fall Worker's
Compensation conference, The Foundry Restaurant, Knoxville Tennessee,
October 4, 2016

Gamma Knife Radiosurgery

Baptist Hospital of East Tennessee – Foundation Board March 2004

Baptist Hospital of East Tennessee – Retired Physicians Committee June 2004

Planned Giving Advisory Council – Baptist Health System June 22, 2004

Baptist Hospital of East Tennessee Credentialing Committee Meeting
August 17, 2004

Gamma Knife Radiosurgery presentations (continued)

Baptist Hospital of East Tennessee – Foundation Board March 2004

Baptist Hospital of East Tennessee – Retired Physicians Committee June 2004

Planned Giving Advisory Council – Baptist Health System June 22, 2004

Baptist Hospital of East Tennessee Credentialing Committee Meeting August 17, 2004

Baptist Health Symposium – Rothchild’s Meeting Center August 29, 2004

East Tennessee Trigeminal Neuralgia Association

Second Presbyterian Church Knoxville, Tennessee September 28, 2004

Interview – WBIR TV Channel 10, Knoxville, Tennessee November 9, 2004

Interview – Baptist Health Report/WBIR TV Channel 10
Knoxville, Tennessee January 20, 2005

Interview – Ribbon Cutting Ceremony for Gamma Knife Center
Baptist Hospital of East Tennessee
WBIR TV Channel 10 Knoxville, Tennessee 2005

Baptist Health System Board of Directors Meeting
Knoxville, Tennessee March 3, 2005

Cancer Support Group of the American Cancer Society
Knoxville, Tennessee March 15, 2005

Baptist Hospital of East Tennessee Surgical Staffing Service
Knoxville, Tennessee March 30, 2005

Health Physics society of East Tennessee
Knoxville, Tennessee April 19, 2005

Mended Hearts Organizations/Baptist Hospital of East Tennessee
Knoxville, Tennessee August 1, 2005

Sertoma Club of Downtown Knoxville, Foundry of Downtown Knoxville
Knoxville, Tennessee November 16, 2005

East Tennessee Trigeminal Neuralgia Association
Baptist Hospital of East Tennessee, Knoxville Tennessee,
November 29, 2005

Gamma Knife Radiosurgery presentations (continued)

Presentation Baptist Hospital West Medical Staff Quarterly Meeting
Knoxville, Tennessee February 23, 2006

Presentation Ft. Sanders Regional Neuroscience Nurses
Knoxville, Tennessee April 12, 2006

Presentation Health Quest, Clinton, Tennessee, April, 2006

East Tennessee Cancer Registry/Baptist Hospital of East Tennessee
Knoxville, Tennessee , April 2006

Presentation Ft. Sanders Regional Neuroscience Nurses
Knoxville, Tennessee April 12, 2006

Presentation Ft. Sanders Regional Medical Center Neuroscience Nurses
Knoxville, Tennessee April 12, 2006

Presentation Ft. Sanders Regional Neuroscience Nurses
Knoxville, Tennessee April 12, 2006

Presentation Health Quest
Clinton, Tennessee June 13, 2006

Presentation-Baptist Hospital of East Tennessee ICU nurses

Presentation-Downtown Kiwanis Knoxville-The Foundry Restaurant-November
November 9, 2006.

Presentation-Fort Sanders Retired Physicians Club-8/10/2011, Fort Sanders
Regional Medical Center.

Presentation-Midsouth Worker's Compensation Caseworker Association-The
Foundry Restaurant-January 19, 2007.

Presentation-Fort Sanders Regional Gamma knife Center at Thompson Cancer
Survival Center-open house.

Presentation-the Midsouth Worker's Compensation Caseworker's Association-
The Foundry Restaurant-February 17, 2009.

Presentation-Frank Strang Senior Ctr., September 7, 2011

Presentation-Southeastern Stroke Summit-May 12, 2012, Cherokee Country Club,
Knoxville Tennessee.

Presentation-East Tennessee case worker's association-May 15, 2012, Rothchild
Event

Gamma Knife Radiosurgery presentations (continued)

Presentation-Bearden United Methodist Church-Wednesday Night Live 23, 2013.

Presentation-Hope for Today Cancer Support Group-Maryville, Tennessee, October 2016.

Dr. Bob Show, East Tennessee Public Television, December 2016

Publications:

1. Hauge, David H. Changes in Blood Glucose, Plasma Triglyceride, Hematocrit and Body Weight during Gestation in the Rat. Senior Independent Study Thesis for Bachelor of Arts Degree. The College of Wooster, Wooster Ohio, 1977.
2. Hauge, David H. The Projections of the Dorsal Column Nuclei to the Thalamus in the Rat. Thesis for Master of Science Degree (Anatomy). Department of Anatomy and Neurobiology, Saint Louis University School of Medicine, Saint Louis, Missouri. 1982.
3. Massupust, L.C., Hauge, D.H., Ferneding, J.C., Doubek, W.G., and Taylor, J.J. Projection Systems and Terminal Localizations of Dorsal Column Afferents. An Autoradiographic and Horseradish Peroxidase Study in the Rat. J. Comp. Neurol. 237:553-544, 1985.
4. Smith, J.R., Flanigan, H.F. and Hauge, D.H. Alleviation of deafferentation pain by posterior spinal cord stimulation without development of paresthesias in the area of pain. Clin. J. Pain 4:157-160, 1988.
5. Doetsch, G.S., Stoney, Jr., S.D., and Hauge, D.H., 1989. Convergent inputs to single neurons in the SmI forepaw digit cortex of raccoons. Soc. Neuroscie. Abstr. 15:1053,
6. Mark, Edward K., Hauge, David H., Standage. Gregg P. and Doetsch,, Gernot S., 1989. Immunoreactivity for glutamic acid decarboxylase and several neuropeptides in the spinal cord of the raccoon. Brain Res. Bull. 25: 787-790.

7. Doetsch, Gernot S., Stoney, Jr., S., .David, and Hauge, David H., 1992. Convergent inputs to single neurons in two different subdivisions of somatosensory forepaw digit cortex of the raccoon. Exp. Neurol. 115:250-259.

Non-Professional Activities:

1. Administrative Board, Bearden United Methodist Church, Knoxville Tennessee 1993-1996
2. Administrative Board good Shepherd Counseling Ctr., Knoxville, TN, 1993-1996.
3. Board of Trustees, Good Shepherd Counseling Center., January 1994 through January 1996, present and Board of Trustees, January 1995 to 1996
4. Member of Knoxville/Oak Ridge Classical Guitar Society, 1996-present
5. Member of Guitara Informale Performing Group, 2000-2017
6. Member, Bearden Middle School Foundation Board October 1999.
7. President, Bearden Middle School Foundation Board, 2001-2002.
8. Martial arts training, Mark Aycock's School of Martial Arts
December 9, 2000: First-Degree Black belt-Isshinryu karate-DO-Shodan rank
January 25, 2003: Second Degree black belt-Nidan rank
August 29, 2009: Third degree black belt-San Dan rank
9. Member, Staff Parish Committee, Bearden United Methodist Church, 2001-2003.
10. Member, Advanced Commitment Committee, Bearden Methodist Church Building Fund 2002.
11. Member of West High School Foundation Advisory Board, July 2004 through December 2004.

Previous Research Interests

Plasticity of the somatosensory and motor cortex neonatal and adult raccoon raccoons following digit amputation.

Electrophysiological mapping (intra-cortical microvascular stimulation and electromyography of selected forelimb muscles) to assess the reorganization of these cortical significant connections following amputation of one or more digits of the forelimbs of the raccoon.

Autoradiography and horseradish peroxidase tracing of dorsal column nuclei projections to the thalamus.