

CURRICULUM VITAE

John (Jack) Moriarity, Jr., M.D.

Education:

Stanford University

Bachelor of Science with Honors, Chemistry

Bachelor of Science with Honors, Biology

September 1985 - June 1990

Stanford University School of Medicine

Doctor of Medicine, June 1990 - June 1995

Training:

The Johns Hopkins Hospital

Intern, General Surgery, July 1995 - June 1996

Junior Resident, Neurosurgery, July 1996 - June 1997

Senior Resident, Neurosurgery, July 1997 - June 1998

Chief Resident Pediatric Neurosurgery, July 1998 - October 1998
 Functional Neurosurgery, November 1998 - February 1999
 JHBMC Neurosurgery, March 1999 - June 1999

Neuro-oncology Research Fellow, July 1999 – June 2001

Employment:

Johns Hopkins: Instructor, Adult and Pediatric Neurosurgery, June 2001 – June 2002

Mississippi Neurosurgery and Spine Center: Neurosurgeon, July 2002-present

Certification and Licensure:

American Board of Neurological Surgery, Primary Exam, 1999

State of Maryland, Medical License, Conferred March 4, 1999 (No. D0054446)

State of Mississippi, Medical License, Conferred July 9, 2002 (No. 17703)

Honors and Awards:

American Chemical Society Certification Award, 1989

Stanford Departmental Honors Award, Chemistry, 1989

Stanford Departmental Honors Award, Biology, 1990

Medical Scholars Award, 1991

Deans Award for Outstanding Teaching, 1995

New England Journal of Medicine-Journal Watch, Featured Article, 1999

Johns Hopkins Hunterian Research Award, 2001

Johns Hopkins Faculty Teaching Award, 2002

Research Experience:

6/86 – 8/86	George Mpitsos, Ph.D. Neurophysiology MOH Marine Science Center Project: Mapping of buccal ganglia neurons in pleurobranchaea
1/87 – 8/88	James P. Collman, Ph.D. Department of Chemistry Stanford University Project: Organic synthesis and electrochemistry of novel porphyrins
8/88 – 1/91	H. Fletcher Starnes, M.D. Department of Surgery Stanford University School of Medicine Project: Studying the cytokine response to sepsis
7/99 – 6/02	Solomon H. Snyder, M.D. Department of Neuroscience Johns Hopkins School of Medicine Project: Cloning and characterization of UDPG decarboxylase

Teaching Experience:

Stanford University

Organic Chemistry Teaching Assistant, 1988

Statistics Teaching Assistant, 1992

Cardiovascular Physiology Teaching Assistant, 1992

Gross Anatomy Teaching Assistant, 1991 and 1992

Neuroanatomy Teaching Assistant, 1992 and 1993

Johns Hopkins

Bassett Society/Neurosurgical Anatomy, Instructor, 2001-2002

University of Mississippi Medical Center

Neurosurgical Anatomy Instructor, 2004 - present

Journal Articles:

1. Starnes HF, Heinzl FP, **Moriarity JL**, Yim J, Fontana A, Palladino MA: Transforming growth factor-beta can delay and reduce the lethal effects of *E.coli* septic shock. **Cytokine** 1:133, 1989.
2. **Moriarity JL**, Steinberg GK: Surgical obliteration for vein of Galen Malformation: a case report. **Surgical Neurology** 44:365-370, 1995.
3. **Moriarity JL**, Wetzel M, Clatterbuck RE, Javedan S, Sheppard J, Hoenig-Rigamonti K, Crone NE, Breiter SN, Lee RR, Rigamonti D: The natural history of cavernous malformations: a prospective study of 68 patients. **Neurosurgery** 44:1166-1173, 1999. Featured article, NEJM Journal Watch Neurology 1(5):34, 1999.

4. **Moriarity JL**, Clatterbuck RE, Rigamonti D: The natural history of cavernous malformations. **Neurosurgery Clinics of North America** 10(3):411-417, 1999.
5. Clatterbuck RE, **Moriarity JL**, Elmaci I, Lee RR, Breiter SN, Rigamonti D: Dynamic nature of cavernous malformations: a prospective magnetic resonance imaging study with volumetric analysis. **Journal of Neurosurgery** 93(6):981-6, 2000.
6. **Moriarity JL**, Krauss GL, Boatman D, Storm PB, Lenz FA: Human "memories" can be evoked by stimulation of the lateral temporal cortex after ipsilateral medial temporal lobe resection. **Journal of Neurology, Neurosurgery and Psychiatry** 71(4):549-51, 2001.
7. **Moriarity JL**, Lim M, Storm PB, Beauchamp NJ Jr., Olivi A: Reversible posterior leukoencephalopathy occurring during resection of a posterior fossa tumor: case report and review of the literature. **Neurosurgery** 49(5):1237-40, 2001.
8. Storm PB, **Moriarity JL**, Tyler B, Burger PC, Brem H, Weingart J: Polymer delivery of camptothecin against 9L gliosarcoma: release, distribution and efficacy. **Journal of Neuro-Oncology** 56(3):209-217, 2002.
9. Ye K, Aghdasi B, Luo HB, **Moriarity JL**, Wu FY, Hong JJ, Hurt KJ, Bae SS, Suh P-G, Snyder SH: Phospholipase C-gamma1 is a physiological guanine nucleotide exchange factor for the nuclear GTPase PIKE. **Nature** 415:541-544, 2002.
10. **Moriarity JL**, Hurt KJ, Resnick A, Storm PB, Laroy W, Schnaar R, Snyder SH: UDP-glucuronate decarboxylase, a key enzyme in proteoglycan synthesis: cloning, characterization and localization. **Journal of Biological Chemistry** 277(19):16968-75, 2002.
11. Hurt KJ, Musicki B, Palese MA, Crone JK, Becker RE, **Moriarity JL**, Snyder SH, Burnett AL: Akt-dependent phosphorylation of endothelial nitric oxide synthase mediates penile erection. **Proceedings of the National Academy of Sciences** 99(6):4061-6, 2002.
12. Storm PB, Renard VM, **Moriarity JL**, Tyler B, Wilentz RE, Brem H, Weingart JD: Systemic BCNU enhances the efficacy of local delivery of a topoisomerase I inhibitor against malignant glioma. **Cancer Chemotherapy and Pharmacology** 54:361-367, 2004.

Journal Articles: (cont'd)

13. Blezberg AJ, Dorsi MJ, Storm PB, **Moriarity JL**: Surgical repair of brachial plexus injury: a multinational survey of experienced peripheral nerve surgeons. **Journal of Neurosurgery** 101:365-376, 2004. (cover article)

Chapters:

1. **Moriarity JL**, Starnes HF : Transforming growth factor-beta reduces lethal effects of *E.coli* infection. In Proceedings of the Second International Workshop on Cytokines, Alan R. Liss, Chapter 27, 1990.

2. Storm PB, **Moriarity JL**, Belzberg, A: Nerve Injuries, in H. Hunt Batjer, Christopher M. Loftus (eds): Textbook of Neurological Surgery. Philadelphia: Lippincott-Raven, 2000 (in press).
3. **Moriarity JL**, Storm PB, Olivi A: Central nervous system metastases, in R.T. Johnson (ed): Current Therapy in Neurological Diseases (Vol 7). St. Louis: Mosby, 2001 (in press).
4. **Moriarity JL**, Storm PB, Tamargo RJ: Central Nervous System Vascular Malformations in Pediatric Patients, in Bernard Maria (ed): Child Neurology. 2001 (in press).

Letters and Comments:

1. Lee J, Hua S, Clatterbuck RE, **Moriarity JL**, Dougherty PM, Lenz FA: Ablative surgery and deep brain stimulation for Parkinson's Disease. **Neurosurgery** 45: 417, 1999.
2. Clatterbuck RE, **Moriarity JL**, Rigamonti D: Intramedullary cavernoma. **J Neurosurgery**. 2001 Jul;95(1 Suppl):156-7.

Abstracts and Presentations:

1. **Moriarity JL**, Starnes HF: Transforming growth factor beta and sepsis. Biology Honors Symposium, Stanford University, 1989.
2. **Moriarity JL**, Collman JP: Octadiethylamido porphyrin: synthesis and aqueous cyclic voltametry. Chemistry Honors Symposium, Stanford University, 1990.
3. **Moriarity JL**, Rigamonti D: Familial cavernous malformations. First International Congress on Genetics in Neuroscience, Terni, Italy, June 1998.
4. **Moriarity JL**, Rigamonti D: Familial subarachnoid hemorrhage. First International Congress on Genetics in Neuroscience, Terni, Italy, June 1998.
5. **Moriarity JL**, Brem H: Interstitial delivery of BCNU for high-grade astrocytomas. National Neuroscience Institute Glioma Symposium, Singapore, July 2000.
6. **Moriarity JL**, Brem H: Cells engineered to secrete IL-2 and GM-CSF can protect against cerebral glioma. National Neuroscience Institute Glioma Symposium, Singapore, July 2000.

Abstracts and Presentations: (cont'd)

7. **Moriarity JL**, Brem H: Squalamine and Minocycline as antiangiogenesis agents against cerebral glioma. National Neuroscience Institute Glioma Symposium, Singapore, July 2000.
8. **Moriarity JL**, Hurt KJ, Seibert M, Brem H, Snyder S: Molecular cloning and characterization of BAK1: A novel, putative transcription factor that interacts with Akt. Congress of Neurological Surgeons, San Antonio, September 2000.

9. **Moriarity JL**, Dorsi M, Belzberg A: Surgical repair of brachial plexus injury: A multinational survey of experienced peripheral nerve surgeons. Congress of Neurological Surgeons, San Antonio, September 2000.
10. **Moriarity JL**, Hurt KJ, Snyder S: Molecular Cloning and Characterization of Two Novel Akt Interactors. Society for Neuroscience, New Orleans, November 2000.
11. **Moriarity JL**, Hurt KJ, Snyder S: Molecular cloning and characterization of BAkt 2: A novel, cytosolic enzyme that interacts with Akt. American Association of Neurological Surgeons, Toronto, April 2001.
12. Storm PB, Weingart JD, Brem H, Snyder SH, **Moriarity JL**: Camptothecin-induced apoptosis against gliomas does not inhibit the PI(3)kinase/Akt pathway and is enhanced by wortmannin. Congress of Neurological Surgeons, San Diego, October 2001.
13. Renard VM, Storm PB, Ye K, Fischer C, Tyler B, **Moriarity JL**, Brem H: Noscapiene inhibits gliomas by disrupting microtubule arrays and inducing apoptosis. Congress of Neurological Surgeons, San Diego, October 2001.
14. Storm PB, **Moriarity JL**, Renard VM, Fischer C, Tyler B, Brem H, Weingart JD: Systemic delivery of CPT-11 (irinotecan) fails to enhance local or systemic BCNU efficacy against intracranial 9L gliosarcoma. Congress of Neurological Surgeons, San Diego, October 2001.
15. Storm PB, Renard VM, Ye K, Tyler B, **Moriarity JL**, Brem H: Noscapiene hydrochloride arrests glioma cells at metaphase and is a potential radiosensitizer. Congress of Neurological Surgeons, San Diego, October 2001.
16. **Moriarity JL**, Hurt KJ, Storm PB, Snyder SH: Further characterization of a novel cytosolic protein that interacts with Akt. Congress of Neurological Surgeons, San Diego, October 2001.
17. **Moriarity JL**, Hurt KJ, Resnick A, Storm PB, Laroy W, Schnaar R, Snyder SH: Cloning and characterization of UDP-glucuronate decarboxylase, a key enzyme in proteoglycan synthesis. Society for Neuroscience, San Diego, November 2001.
18. **Moriarity JL**: Anterior lumbar interbody fusion with anterior locking plate: technical report and review of 21 cases. Mississippi Neurosurgical Society, Memphis, March 2006.
19. **Moriarity JL**: Anterior lumbar interbody fusion with anterior plating: review of 21 cases. Neurosurgical Society of America, Ojai, June 2006.