



JOHN (JACK) MORIARITY, JR., M.D.

EDUCATION

- Undergraduate: Stanford University
Palo Alto, California
Degree: Bachelor of Science with Honors,
Chemistry, 1990
Degree: Bachelor of Science with Honors,
Biology, 1990
- Medical School: Stanford University School of Medicine
Palo Alto, California
Degree: Doctor of Medicine, 1995

TRAINING

- 1995-1996 Intern, Department of General Surgery
Johns Hopkins Hospital, Baltimore, MD
- 1996-1997 Junior Resident, Department of Neurosurgery
Johns Hopkins Hospital, Baltimore, MD
- 1997-1998 Senior Resident, Department of Neurosurgery
Johns Hopkins Hospital, Baltimore, MD
- 1998 Chief Resident, Pediatric Neurosurgery
Johns Hopkins Hospital, Baltimore, Maryland
- 1998-1999 Chief Resident, Functional Neurosurgery
Johns Hopkins Hospital, Baltimore, Maryland
- 1999 Chief Resident, JHBMC Neurosurgery
Johns Hopkins Hospital, Baltimore, Maryland
- 1999-2001 Neuro-oncology Research Fellow
Johns Hopkins Hospital, Baltimore, Maryland

EMPLOYMENT

- 2001-2002 Instructor, Adult and Pediatric Neurosurgery
Johns Hopkins Hospital, Baltimore, Maryland
- 2002-present NewSouth NeuroSpine: Neurosurgeon



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Eric Amundson, MD
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John D. Davis, IV, MD
Jack Moriarity, MD
John Neill, MD
W. Lynn Stringer, MD
Greg Wood, MD

DIVISION OF PAIN MANAGEMENT 601-664-1213

Jeff Laseter, MD
Jeff Summers, MD

DIVISION OF PHYSICAL MEDICINE 601-420-1930

David Collipp, MD
Rahul Vohra, MD
Michael Winkelmann, MD

JOHN (JACK) MORIARITY, JR., M.D.

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EMPLOYMENT

- 2001-2002 Instructor, Adult and Pediatric Neurosurgery
 Johns Hopkins Hospital, Baltimore, Maryland
- 2002-present NewSouth NeuroSpine: Neurosurgeon

CERTIFICATION AND LICENSURE

- November 2006 American Board of Neurological Surgery, Board Certified
- July 2002 State of Mississippi, Medical License (No. 17703)

HONORS AND AWARDS

- 1989 American Chemical Society Certification Award
- 1989 Stanford Departmental Honors Award, Chemistry
- 1990 Stanford Departmental Honors Award, Biology
- 1991 Medical Scholars Award
- 1995 Deans award for Outstanding Teaching
- 1999 New England Journal of Medicine-Journal Watch, Featured Article
- 2001 Johns Hopkins Hunterian Research Award
- 2002 Johns Hopkins Faculty Teaching Award

RESEARCH EXPERIENCE

- Jun. 1986 – Aug. 1986 George Mpitsos, Ph.D.
 Neurophysiology
 MOH Marine Science Center
 Project: Mapping of buccal ganglia neurons in pleurobranchaea
- Jan. 1987 – Aug. 1988 James P. Collman, Ph.D.
 Department of Chemistry
 Stanford University
 Project: Organic synthesis and electrochemistry of novel porphyrins
- Aug. 1988 – Jan. 1991 H. Fletcher Starnes, M.D.
 Department of Surgery
 Stanford University School of Medicine
 Project: Studying the cytokine response to sepsis
- July 1999 – Jun. 2002 Solomon H. Snyder, M.D.
 Department of Neuroscience
 Johns Hopkins School of Medicine
 Project: Cloning and characterization of UDPG decarboxylase

JOHN (JACK) MORIARITY, JR., M.D.

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TEACHING EXPERIENCE

Stanford University

1988 Organic Chemistry Teaching Assistant
1992 Statistics Teaching Assistant
1992 Cardiovascular Physiology Teaching Assistant
1991 - 1992 Gross Anatomy Teaching Assistant
1992 - 1993 Neuroanatomy Teaching Assistant

Johns Hopkins

2001 - 2002 Bassett Society/Neurosurgical Anatomy, Instructor

University of Mississippi Medical Center

2004 – present Neurosurgical Anatomy Instructor, 2004-present

JOURNAL ARTICLES

Starnes, H.F., Heinzl, F.P., Moriarity, J.L., Yim, J., Fontana, A., Palladino, M.A. *Transforming growth factor-beta can delay and reduce the lethal effects of E. coli septic shock*, Cytokine, 1:133, 1989.

Moriarity, J.L., Steinberg, G.K. *Surgical obliteration for vein of Galen Malformation: a case report*, Surgical Neurology, 44:365-370, 1995.

Moriarity, J.L., Wetzl, M., Clatterbuck, R.E., Javedan, S., Sheppard, J., Hoenig-Rigamonti, K., Crone, N.E., Breiter, S.N., Lee, R.R., 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.

Moriarity, J.L., Clatterbuck, R.E., Rigamonti, D. *The natural history of cavernous malformations*, Neurosurgery Clinics of North America, 10(3):411-417, 1999.

Clatterbuck, R.E., Moriarity, J.L., Elmaci, I., Lee, R.R., Breiter, S.N., Rigamonti, D. *Dynamic nature of cavernous malformations: a prospective magnetic resonance imaging study with volumetric analysis*, Journal of Neurosurgery, 93(6):981-6, 2000.

Moriarity, J.L., Krauss, G.L., Boatman, D., Storm, P.B., Lenz, F.A. *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.

Moriarity, J.L., Lim, M., Storm, P.B., Beauchamp, N.J., 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.

Storm, P.B., Moriarity, J.L., Tyler, B., Burger, P.C., Brem, H., Weingart, J. *Polymer delivery of camptothecin against 9L gliosarcoma: release, distribution and efficacy*, Journal of Neuro-Oncology, 56(3):209-217, 2002.

JOHN (JACK) MORIARITY, JR., M.D.

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Ye, K., Aghdasi, B., Luo, H.B., Moriarity, J.L., Wu, F.Y., Hong, J.J., Hurt, K.J., Bae, S.S., Suh, P-G., Snyder, S.H. *Phospholipase C-gamma1 is a physiological guanine nucleotide exchange factor for the nuclear GTPase PIKE*, Nature, 415:541-544, 2002.

Moriarity, J.L., Hurt, K.J., Resnick, A., Storm, P.B., Laroy, W., Schnaar, R., Snyder, S.H. *UDP-glucuronate decarboxylase, a key enzyme in proteoglycan synthesis: cloning, characterization and localization*, Journal of Biological Chemistry, 277(19):16968-75, 2002.

Hurt, K.J., Musicki, B., Palese, M.A., Crone, J.K., Becker, R.E., Moriarity, J.L., Snyder, S.H., Burnett, A.L. *Akt-dependent phosphorylation of endothelial nitric oxide synthase mediates penile erection*, Proceedings of the National Academy of Sciences, 99(6):4061-6, 2002.

Storm, P.B., Renard, V.M., Moriarity, J.L., Tyler, B., Wilentz, R.E., Brem, H., Weingart, J.D. *Systemic BCNU enhances the efficacy of local delivery of a topoisomerase I inhibitor against malignant glioma*, Cancer Chemotherapy and Pharmacology, 54:361-367, 2004.

Blezberg, A.J., Dorsi, M.J., Storm, P.B., Moriarity, J.L. *Surgical repair of brachial plexus injury: a multinational survey of experienced peripheral nerve surgeons*, Journal of Neurosurgery, 101:365-376, 2004 (cover article).

CHAPTERS

Moriarity, J.L., Starnes, H.F. *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.

Storm, P.B., Moriarity, J.L., Belzberg, A. *Nerve Injuries*, in H. Hunt Batjer, Christopher M. Loftus (eds): Textbook of Neurological Surgery, Philadelphia: Lippincott-Raven, 2000 (in press).

Moriarity, J.L., Storm, P.B., Olivi, A. *Central nervous system metastases*, in R.T. Johnson (ed): Current Therapy in Neurological Diseases (Vol 7). St. Louis: Mosby, 2001 (in press).

Moriarity, J.L., Storm, P.B., Tamargo, R.J. *Central Nervous System Vascular Malformations in Pediatric Patients*, in Bernard Maria (ed): Child Neurology, 2001 (in press).

LETTERS AND COMMENTS

Lee, J., Hua, S., Clatterbuck, R.E., Moriarity, J.L., Dougherty, P.M., Lenz, F.A. *Ablative surgery and deep brain stimulation for Parkinson's Disease*, Neurosurgery, 45: 417, 1999.

Clatterbuck, R.E., Moriarity, J.L., Rigamonti, D. *Intramedullary cavernoma*, J Neurosurgery, 2001 Jul;95(1 Suppl):156-7.

ABSTRACTS AND PRESENTATIONS

Moriarity, J.L., Starnes, H.F. *Transforming growth factor beta and sepsis*, Biology Honors Symposium, Stanford University, 1989.

Moriarity, J.L., Collman, J.P. *Octadiethylamido porphyrin: synthesis and aqueous cyclic voltametry*, Chemistry Honors Symposium, Stanford University, 1990.

Moriarity, J.L., Rigamonti, D. *Familial cavernous malformations*, First International Congress on Genetics in Neuroscience, Terni, Italy, June 1998.

Moriarity, J.L., Rigamonti, D. *Familial subarachnoid hemorrhage*, First International Congress on Genetics in Neuroscience, Terni, Italy, June 1998.

Moriarity, J.L., Brem, H. *Interstitial delivery of BCNU for high-grade astrocytomas*, National Neuroscience Institute Glioma Symposium, Singapore, July 2000.

Moriarity, J.L., Brem, H. *Cells engineered to secrete IL-2 and GM-CSF can protect against cerebral glioma*, National Neuroscience Institute Glioma Symposium, Singapore, July 2000.

Moriarity, J.L., Brem, H. *Squalamine and Minocycline as antiangiogenesis agents against cerebral glioma*, National Neuroscience Institute Glioma Symposium, Singapore, July 2000.

Moriarity, J.L., Hurt, K.J., Seibert, M., Brem, H., Snyder, S. *Molecular cloning and characterization of BAkt 1: A novel, putative transcription factor that interacts with Akt*, Congress of Neurological Surgeons, San Antonio, September 2000.

Moriarity, J.L., 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.

Moriarity, J.L., Hurt, K.J., Snyder, S. *Molecular Cloning and Characterization of Two Novel Akt Interactors*, Society for Neuroscience, New Orleans, November 2000.

Moriarity, J.L., Hurt, K.J., 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.

Storm, P.B., Weingart, J.D., Brem, H., Snyder, S.H., Moriarity, J.L. *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.

Renard, V.M., Storm, P.B., Ye, K., Fischer, C., Tyler, B., Moriarity, J.L., Brem, H. *Noscapine inhibits gliomas by disrupting microtubule arrays and inducing apoptosis*, Congress of Neurological Surgeons, San Diego, October 2001.

Storm, P.B., Moriarity, J.L., Renard, V.M., Fischer, C., Tyler, B., Brem, H., Weingart, J.D. *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.

JOHN (JACK) MORIARITY, JR., M.D.

Storm, P.B., Renard V.M., Ye, K., Tyler, B., Moriarity, J.L., Brem, H. *Noscapine hydrochloride arrests glioma cells at metaphase and is a potential radiosensitizer*, Congress of Neurological Surgeons, San Diego, October 2001.

Moriarity, J.L., Hurt, K.J., Storm, P.B., Snyder, S.H. Further characterization of a novel cytosolic protein that interacts with Akt, Congress of Neurological Surgeons, San Diego, October 2001.

Moriarity, J.L., Hurt, K.J., Resnick, A., Storm, P.B., Laroy, W., Schnaar, R., Snyder, S.H. *Cloning and characterization of UDP-glucuronate decarboxylase, a key enzyme in proteoglycan synthesis*, Society for Neuroscience, San Diego, November 2001.

Moriarity, J.L. *Anterior lumbar interbody fusion with anterior locking plate: technical report and review of 21 cases*, Mississippi Neurosurgical Society, Memphis, March 2006.

Moriarity, J.L. *Anterior lumbar interbody fusion with anterior plating: review of 21 cases*, Neurosurgical Society of America, Ojai, June 2006.

Moriarity, J.L. *Use of a free-hand electronic pedicle awl for lumbar pedicle screw placement*, Neurosurgical Society of America, Kohler, June 2007.