

**CURRICULUM VITAE**

Jacob Patrick Schwarz

Neurosurgical Associates  
Nashville, Tennessee

## CURRICULUM VITAE

### Personal Data

NAME: Jacob Patrick Schwarz  
DATE OF BIRTH: November 6, 1972  
PLACE OF BIRTH: Idaho Falls, Idaho  
MARITAL STATUS: Married – Anna Ryan Hemnes, M.D.

### Education

#### Undergraduate

1991-1995 B.A. Major-Biology, *Summa Cum Laude*  
Washington University  
St. Louis, Missouri

#### Medical School

1995-1999 M.D.  
Johns Hopkins School of Medicine  
Baltimore, Maryland

#### Internship

1999-2000 Halsted Surgical Internship  
Johns Hopkins School of Medicine  
Baltimore, Maryland

#### Neurosurgical Residency Training

2000-2005 Department of Neurosurgery  
Johns Hopkins School of Medicine  
Baltimore, Maryland

#### Instructor, Advanced Surgical Training In Neuro-Oncology and Complex Spine Surgery

2005-2006 Department of Neurosurgery  
Johns Hopkins School of Medicine  
Baltimore, Maryland

### **Research experience:**

**1991-1995**

**Steven Petersen, Ph.D. and Marcus Raichle, M.D.**  
**Department of Neurology; Washington University, St. Louis, Missouri**

We used Positron Emission Tomography to study functional imaging correlates of tasks involving verbal memory and spatial reasoning. This work led to publications in the *J. Neuroscience*, *J.*

*Neurophysiology.* I won the Harrison Stalker prize in biology for my work during this time.

**1996-1999**

**Allan Belzberg, M.D.**

Department of Neurosurgery; The Johns Hopkins Hospital,  
Baltimore, Maryland

I developed and executed protocols to investigate the use of various agents in the treatment of peripheral neuromas. Clinical investigations included the treatment of neurogenic sarcoma, the treatment of neuropathic pain, and peripheral nerve repair.

**July 2003- July 2004**

**NIH Grant : F32NS47002,**

**PI: Jacob Schwarz, M.D.**

“Capsaicin application to L5 mixed spinal root to study anatomic and molecular mechanisms of hyperalgesia and central sensitization.”

### Awards and Honors

1991-1995	Washington University Scholars Program in Medicine
1992-1994	Howard Hughes Undergraduate Summer Fellowship
1994	Phi Beta Kappa
1995	Harrison Stalker Prize in Biology- Washington University
1995	Sigma Xi research honorary
1996	Howard Hughes Graduate Summer Fellowship

### Affiliations

American Association of Neurological Surgeons  
Congress of Neurological Surgeons  
North American Spine Society

### Presentations

- 1) Anterior Cervical Discectomy and Fusion with Macropore Absorbable Graft: Preliminary Experience from 28 Patients. European Cervical Spine Research Society, SPINEWEEK, Porto, Portugal June 1-6, 2004.
- 2) Sarcomatous Degeneration in Segmental Neurofibromatosis  
Sir Sydney Sunderland Society, Baltimore Md, 2002.

- 3) Malignant Peripheral Nerve Sheath Tumor in Segmental Neurofibromatosis  
AANS Section on Spine and Peripheral Nerve 13<sup>th</sup> annual meeting.

## **Publications**

### *Peer-Reviewed Articles*

- 1) **Schwarz JP**, Belzberg AJ  
Malignant Degeneration in Segmental Neurofibromatosis  
Journal of Neurosurgery, 92(2):342-346, 2000
- 2) **Schwarz JP**, Belzberg AJ  
Segmental Neurofibromatosis  
Journal of Neurosurgery, 93(3):531-534, 2000
- 3) Belzberg AJ, **Schwarz JP**  
Management of Ulnar Nerve Entrapment at the Elbow  
Techniques in Neurosurgery, 6(1):57-67, 2000
- 4) Belzberg AJ, **Schwarz JP**  
Management of the Rheumatoid Cervical Spine  
Journal of Spinal Disorders, 12(1):81-86, 1999
- 5) Schulman G, **Schwarz J**, Meizen F, Petersen SE.  
The Effect of Motion Contrast on Human Cortical Responses to Moving Stimuli  
Journal of Neurophysiology, 79:2794-2803, 1998
- 6) Fiez J, Raiffe E, Balota D, **Schwarz J**, Petersen S, Raichle M.  
A PET Study of The Short Term Maintenance of Verbal Information.  
Journal of Neuroscience 116(2): 808-822, 1996
- 7) Schlosser M, Schwarz J, Davis R, et al.  
Anterior Cervical Discectomy and Fusion with Allograft and Anterior Plating; A Report  
on 219 Patients/469 Level with a minimum of 2 Year Follow-Up  
Neurosurgery Quarterly

## **Book Chapters and Monographs**

- 1) Schwarz J, Belzberg AJ,  
Management of Neuropathic Pain  
Vascular Disorders of the Upper Extremity Ed3  
Machleder, editor, Futura, pp 275-288, 1998
- 2) Schwarz J, Belzberg AJ,  
Tumors of the Peripheral Nervous System. In:  
Neurosurgery (3rd Edition), Wilkins & Rengachary (eds), McGraw Hill, in press.

- 3) Schwarz J, Meyer R. Psychophysical Coorelates of Pain: From Animal Models to Human Testing. The Text Book of Pain. Papagallo M. editor (in press)
- 4) Schwarz J, Naff N. The Management of Neuropathic Pain. Neurosurgery Clinics of North America. Zeiger, E. editor. (in Press)
- 5) Schwarz J, Campbell JN. An Evidenced Based Medicine Approach to Peripheral Nerve Surgery. Evidence Based Neurosurgery. Haines, S. editor. 2006
- 6) Schwarz J, Naff N. Failed Back Surgery Syndrome. Current Therapy in Neurology. R. Johnston, J Griffin, J McArthur eds. 2006

### **Published Abstracts**

- 1) Schwarz J, Belzberg AJ  
The Occurrence of Malignant Peripheral Nerve Sheath Tumor in the Setting of Segmental Neurofibromatosis.  
Section on Disorders of the Spine & Peripheral Nerves, Abstracts pg 144, Newport Beach 1997
- 2) Belzberg AJ, Schwarz J  
Malignant Nerve Sheath Tumors  
American Society of Peripheral Nerve, Abstracts pg 35, 1997
- 3) Schwarz J, Davis R, Branch, C.  
Anterior Cervical Discectomy and Fusion with Macropore Absorbable Graft:  
Preliminary Experience from 28 Patients.  
SPINEWEEK Abstracts, Porto, Portugal 2004