

## **Kavian Shahi, MD PhD**

### **Education**

Residency: Department of Neurosurgery, University of Utah; Salt Lake City, UT.  
Completed June 2001

Medical School: University of Southern California; Los Angeles, CA  
MD with Highest Distinction, May 1995

Graduate School: University of Southern California; Los Angeles, CA  
PhD in Neurobiology, May 1993

College: University of California, Irvine; Irvine CA  
Double Major: B.S. in Chemistry, Dec 1987  
B.S. in Biology, Dec 1987

### **Honors and Awards**

Medical School: Graduation with Highest Distinction  
Alpha Omega Alpha (Elected Junior Year)  
Dean's Scholar Years I-IV  
Oshiro MD-PhD Fellowship

College: Excellence in Undergraduate Research  
NSF Undergraduate Research Fellowship  
Dean's list Junior and Senior years

### **National Boards**

ABNS Board Certified - November 11, 2005  
USMLE Pass - Parts 1&2

### **Research and Professional Experience**

1. Research Assistant, Dept of Psychobiology, Univ. of Cal., Irvine:  
June 1986-Sept 1988
2. Summer Research Forum, Dept of Psychobiology, USC:  
June 1989-August 1989
3. Graduate Student, Dept of Neurobiology, USC:  
July 1990-May 1993
4. Founder, Neurpro Technologies, Inc:  
February 2002

5. CEO, Neuropro Technologies, Inc.:  
July 2003 – January 1, 2006
6. Scientific Board of Advisors, Neuropro Technologies:  
January 1, 2006 - present
7. Chairman, Department of Neurosurgery, Sutter Roseville Medical Center:  
February 2006 – present
8. Spine & Neurosurgery Associates (Private Practice):  
June 2006 to present
9. Medical Director of Neurosurgical Services, Mercy Healthcare Systems  
October 23, 2007 to present

### **Publications (Excluding Abstracts)**

Seubert, P., Ivy, G., Larson, J., Lee, J., **Shahi, K.**, Baudry, M., and Lynch, G. Lesions of the entorhinal cortex produce a calpain-mediated degradation of brain spectrin in dentate gyrus. I. Biochemical studies. *Brain-Res.* vol 459, Sep 6, 1988: 226-232.

Baudry, M., **Shahi, K.**, and Gall, C. Induction of ornithine decarboxylase in adult rat hippocampal slices. *Brain-Res.* vol. 464, Dec. 1988: 313-318.

**Shahi, K.** and Baudry, M. Increasing binding affinity of agonists to glutamate receptors increases synaptic responses at glutamatergic synapses. *Proc. Nat. Acad. Sci.* vol 89, Aug 1, 1992: 6881-6885.

Fitzpatrick, J.S., **Shahi, K.**, and Baudry, M. Effect of seizure activity and calpain inhibitor I on LTP in juvenile hippocampal slices. *Internat. J. of Dev. Neurosci.*, vol 10, Aug 1992: 313-319.

**Shahi, K.**, Marvizon, J.C., and Baudry, M. High concentrations of glycine induce long lasting changes in synaptic efficacy in rat hippocampal slices. *Neuroscience Letters*, vol 149, Jan 12, 1993: 185-188.

Musleh, W.Y., **Shahi, K.**, and Baudry, M. Further studies concerning the role of nitric oxide in LTP induction and maintenance. *Synapse*, vol 13, April 1993: 370-375.

**Shahi, K.**, and Baudry, M. Glycine induced changes in synaptic efficacy in hippocampal slices involve changes in AMPA receptors. *Brain-Res.* vol 627, 1993: 261-266.

### **Dissertation**

Regulation of synaptic efficacy at excitatory synapses by the affinity of glutamate receptors. May 1993

## Oral Presentations

Frameless stereotaxy as a tool for placement of instrumentation screws along the spinal axis. **Shahi, K.**, Tippetts, R., Apfelbaum, R., and McDonald, P., Richard Lende Winter Neurosurgical Conference, Feb 1997

Intraparenchymal meningioma, a case report. **Shahi, K.** and McDonald, J. D., Richard Lende Winter Neurosurgical Conference, Feb 1998

Use of cDNA microarrays in the identification of tumor markers. **Shahi, K.** and McDonald, J. D., Richard Lende Winter Neurosurgical Conference, Feb 1999

Use of cDNA microarrays in the analysis of gliomas. **Shahi, K.** and McDonald, J. D., The Rocky Mountain Neurosurgical Society, June 1999

Spinal Cord Injury. **Shahi, K.** Critical Care Nursing: Neuro Update, Northern Region Critical Care Consortium, Nov 1999

New Technology in Neurologic Surgical Practice. **Shahi, K.**, Interdisciplinary Problem Solving in Cranio-Maxillofacial Surgery Conference, October 2003

Is it Alzheimer's, Parkinson's or is it NPH? **Shahi, K.**, Sun City Lincoln Hills, CA, December 6, 2005

Is it Alzheimer's, Parkinson's or is it NPH? **Shahi, K.**, Sun City Lincoln Hills, CA, May 8, 2007

## Patents:

7,108,862      Bone Growth Composition and methods

7,041,309      Spinal fusion using an HMG-CoA reductase inhibitor

Pending      Apparatus and methods for detecting cerebrospinal fluid.