

ROBERT W. VAN BOVEN, M.D., D.D.S.

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EDUCATION

- **William Rainey Harper College**, Palatine, Il. Sept 1978-June 1980, A.S. degree
- **Loyola University of Chicago** August 1980- June 82, Biology Major
- **University of Illinois**, August 1982-June 86, DDS
- **The Johns Hopkins University**, July 1986-June 90, Postdoctoral fellowship. Studied somatosensory mechanisms and recovery using psychophysical and neurophysiologic methods under Kenneth O. Johnson, Ph.D.
- **University of Maryland Shock Trauma Ctr.** July 1990-June 92, Anesthesiology Fellowship
- **University of Missouri-Kansas City (UMKC)** August 1992-June 96, MD
- **Rush -Presbyterian-St. Luke's Medical Ctr.** July 1996-June 97, Medical Internship
- **Harvard University**, Beth Israel Deaconess Med. Ctr., July 1997-December 1997, Neurology Residency
- **Northwestern University**, January 1998-August 2000, Neurology Residency
- **U.S. Dept. of Health and Human Services, The National Institutes of Health (NIH)**, Laboratory of Brain and Cognition, August 2000-October 2003. Clinical Associate. Functional MRI studies of perception and brain plasticity.
- **Louisiana State University**, Sept. 2006- June 2007. Clinical Neurophysiology Fellowship (EMG/NCV) under Dr. Austin Sumner.

EMPLOYMENT

- **Owner**, Northern Neurology Care Center, P.A. November 2003-January 2006
- **Associate Professor**, Neurology, Chicago Medical School, February 2006- September 2006
- **Louisiana State University** (fellowship), September 2006- June 2007
- **Director**, The Brain Imaging and Recovery Laboratory, Central Texas Veterans Health Care System, July 2007- January 2009
- **Neurologist**, subcontractor with Department of Defense, U.S.ARMY, May 2009-2016
 - Irwin Army Community Hospital, Fort Riley, KS, May 2009-April 2010; Carl R. Darnall Army Medical Center/Geneva Foundation, Fort Hood, TX, May 2010-2016

- **Neurologist**, Lakeway Professional Services, June 2012- September 2014
- **The Brain & Body Brain Institute, P.A.** October 2014-present

BOARD CERTIFICATION/MEDICAL LICENSURE/DEA REGISTRATION

- **Board Certified**; ABPN Certificate No. 56725; Certified September 2011 thru 12/31/2021
- **DEA** FV3498361 Issued 09-21-2012 Expires 05-31-2018
- **Illinois** 036116025 Issued 05/25/2006, expires 07/31/2014
- **NPI** 1316000326; taxonomy 2084n0400x
- Minnesota 46304 Issued 11/08/2003, expired 01/31/2007
- Maryland D59747 Issued 01/09/2003, expired 09/30/2007
- Louisiana MD.201201 Issued 10/23/2008, expired 01/31/2008
- Texas P5901 Issued 03/15/2013, expires 02/28/2019

HONORS, AWARDS, AND APPOINTMENTS

- **US Coordinator**, 1st International Congress on Oral Cancer and Jaw Tumors, Singapore, 1987 (600 participants, raised \$10,000)
- **Organizer/Chairman**, Symposium on Mechanisms and Management of Somatosensory Disorders of the Facial Region. Univ. of Maryland, 1991 (14 speakers, 120 participants)
- **1991 National Research Fellowship Award**, Amer. Assoc. of Oral and Maxillofacial Surgeons for *Somatosensory Disturbances Following Corrective Jaw Surgery: A Model for Peripheral Nerve Regeneration.*
- **Delegate**, Institutional Review Board for Human Research, The RA Cowley Shock Trauma Ctr., University of Maryland, 1990-92
- **Best Research Paper Award**, UMKC School of Medicine, 1993 and 1995
- **Delegate**, Minority Recruitment and Retention Committee, UMKC School of Medicine, 1993-96
- **1999 Marcinek Neurology Resident Award**, Northwestern University. Presented to the resident

who “personifies excitement for learning and enthusiastic commitment to preparation for a career in the clinical neurosciences.”

- **2000 Travel Scholarship for Resident Teaching**, American Neurological Association.
- **Representative**, National Institute of Mental Health Clinical Care Committee, 2000-2003
- **Vice-President**, Minnesota Society of Neurological Sciences, 2005-2006.
- **Special Volunteer**, Laboratory of Brain and Cognition, National Institutes of Health, U.S. Department of Health and Human Services, Washington D.C. 2004-2006
- **Ad hoc journal reviewer:** *Neurology* 1995-present. *Somatosensory and Motor Research* 1999-present. *Brain* 2002, *Neuroimage* 2002, *Clinical Neurophysiology*, 2005-
- **2005 Palatucci Advocacy Leadership Fellow**, American Academy of Neurology
- **2006 Junior Academic Faculty Award**, American Neurological Association
- **Member**, IRB for Human Investigations, Rosalind Franklin University, 2006
- **US Army Certificate of Achievement for Excellence**, Irwin Army Community Hospital, Fort Riley, KS. 2009
- **Appointed Member, Coalition for Patient Safety, Texas Medical Association.** Appointment as Texas Neurological Society’s representative, February 2013-February 2015.

INVENTIONS

- Johnson, Van Boven, Phillips (JVP) Domes. Diagnostic mechanical gratings for somatosensory deficits. Licensure agreement with Stoelting Co., Wood Dale, IL.
- The Helix: automated tactile stimulator for studies of somatosensory processing. Developed at NIH.
- VBI Head-Holder. Device for neuroimaging. Licensure agreement with Tempu-Pedic.Inc.

GRANTS

- Using Real-Time Functional Imaging to Speed Recovery From TBI: \$2,768,720.00. Partnering PI Congressional Directed Medical Research Program (CDMRP), U.S. Dept. of Defense: Grant 10687894. Funding Period: 09/01/2011-08/31/2015. Partnering PI with Professor John Gabrieli, Massachusetts Institute of Technology.

PUBLICATIONS

- Van Boven RW, Gilbert MR, Harding BL. Nerve injury in-vivo: a blind-ended tube model for studying environmental effects. *Ann NY Acad Sci* 1991; 633: 577.
- LaBanc JP, Van Boven RW. Surgical management of inferior alveolar nerve injuries. *Oral and Maxillofacial Clinics of North America* 1992; 4 (2): 425-437.
- Van Boven RW, Johnson KO. A psychophysical study of the mechanisms of sensory recovery following nerve injury in humans. *Brain* 1994; 117: 149-167.
- Van Boven RW, Johnson KO. The limit of tactile spatial resolution in humans: grating orientation discrimination at the lip, tongue, and finger. *Neurology* 1994; 44: 2361-2366.
- Johnson KO, Van Boven RW, Hsiao SS. The perception of two points is not the spatial resolution threshold. In: Boivie J, Hansson P, Linblom U, eds. *Touch, Temperature and Pain in Health and Disease: Mechanisms and Assessments*. Seattle: IASP press, 1994: 389-404.
- Van Boven RW, Hamilton RH, Kauffman T, Keenan JP, Pascual-Leone, A. Tactile spatial resolution in blind Braille readers. *Neurology* 2000; 54: 2230-2236.
- Van Boven RW. Spatial Discrimination is abnormal in focal hand dystonia. *Neurology* 2001 July 24;57(2):370.
- Werhahn KJ, Mortensen J, Van Boven RW, Zeuner KE, Cohen LG. Enhanced tactile spatial perception and cortical processing during acute hand deafferentation. *Nature Neuroscience* 2002; 5(10): 936-938.
- Werhahn KJ, Mortensen J, Van Boven RW, Cohen LG. Bihemispheric plasticity after acute hand deafferentation. *Suppl Clin Neurophysiol.* 2003;56:232-41.
- Van Boven RW, Ingeholm JE, PC Bikle, Beauchamp MS, and Ungerleider LG Tactile Form and Location Processing in the Human Brain *Proc Natl Acad Sci U S A.* 2005 Aug 30;102(35):12601-5
- Ingeholm JE, Dold GR, Pfeffer LE, Goldstein SR, Johnson KO, Van Boven RW. The Helix: A multi-modal tactile stimulator for human functional neuroimaging. *J Neurosci Methods.* 2006; 155: 217-223
- Van Boven, RW, Hackney, DB, Ebel, A. et.al. Advances in Neuroimaging of Traumatic Brain Injury and Posttraumatic stress disorder. *J. of Rehabilitation Research and Development,* 2009; 46(6): 717-75.
- ABSTRACT: Connelly-Taylor, C, Harrington G, and Van Boven, R.W. Cognitive gains in auditory processing speed and comprehension in active-duty servicepersons with persistent post-concussive symptoms. American Academy of Neurology Sports Concussion Conference, July 8 to July 10, 2016.

LECTURES

- Dept. of Rehabilitative Medicine, The Johns Hopkins University School of Medicine, 1992. *The progression of sensibility following peripheral nerve injury.*
- Dept. of Oral and Maxillofacial Surgery, Massachusetts General Hospital, 1993. *Psychophysical testing of nerve injuries.*
- Division of Plastic and Reconstructive Surgery, Barnes Hospital, Washington Univ., 1993. *Mechanisms of sensory recovery after peripheral nerve injuries in Man.*
- Dept. of Neurology, The Johns Hopkins University School of Medicine; Friends of the Axon, Schwann cell, and Oligodendrite Seminar series, 1993. *A psychophysical study of sensory recovery: implications regarding neural mechanisms.*
- Dept. of Oral and Maxillofacial Surgery, University of California at San Francisco, 1994. *Mechanisms of sensory recovery.*
- School of Medicine, Northwestern University. Scientific Basis of Medicine Course, 2000. *Stroke: mechanisms and management.*
- Dept. of Physical Therapy and Human Movement Sciences, Northwestern University, 2000. Neuroscience course lecture, *Peripheral Nervous System Disorders.*
- Dept. of Psychology, Catholic University of America, 2002. Cognitive Science Seminar Series. *Psychophysical and functional MRI studies of tactile perception.*
- Department of Neurology, University of Florida Gainesville, Grand Rounds, Sept. 10, 2002. *Plasticity and perception: behavioral and physiological studies of touch.*
- Department of Neurology, Loyola University, Chicago, Il., Grand Rounds, February 25, 2005. *What is it? Where is it? Studies of perception and plasticity of touch*
- Grand Rounds, Central Texas Veterans Health Care System, April 26, 2007 *Acquired weakness and somatosensory disturbances.*
- Invited Lecture, The North American Brain Injury Society's Fifth Annual Conference on Brain Injury, October 2008: *Combat-related Traumatic Brain Injury.*
- Invited Lecture, The North American Brain Injury Society's Sixth Annual Conference on Brain Injury, October 3, 2009: *The neural basis of Traumatic Brain Injury.*
- Grand Rounds, Department of Neurology, University of Kentucky, February 2, 2010. *Combat-related traumatic brain injury: an overview.*
- Grand Rounds, Department of Emergency Medicine, Carl R Darnall Army Medical Center, October 14, 2010. *Combat-related traumatic brain injury: an overview*

- Resident Rounds, Department of Neurology, New York University, October 23, 2011. *Combat-related traumatic brain injury.*
- Invited Lecture, American Medical Tennis Association (AMTA), December 9, 2013. *Civilian and Military-related Traumatic Brain Injury.*