CURRICULUM VITAE

JEFFREY STEPHEN SCHWEITZER

Division of Neurosurgery Wright State University-Premier Health Partners Clinical Neuroscience Institute 30 East Apple Street, Suite 6257 Dayton, OH 45409

Date of Birth:	March 7, 1958		
Place of Birth:	White Plains, NY,	USA	
<u>Current</u> Appointmer	nts: Chief, Division of WSU-PHP (Professor of Neur	Neurosurgery Clinical Neuroscience Institute osurgery	1/13-Current
	Wright Stat of Medicine	e University Boonshoft School	1/13-Current
	Director, Epilepsy Programs, N	and Functional Neurosurgery Jiami Valley Hospital	
	Dayton, Oh	io	1/13-Current
<u>Former</u> Appointmen	ts: Private Practice, Cl Pomona, Ca	haparral Medical Group, lifornia	5/12-1/13
	Director, Stereotact	ic and Functional Neurosurgery	
	Program		7/99-1/12
	Kaiser Perm	anente Los Angeles Medical Ce	enter
	Assistant Professor Northwester	of Neurological Surgery n University Medical School	2196-6/99
	Co-Director, Epiler	osy and Movement Disorders Pr	ogram
	Northwester	n Memorial Hospital	2/96-6199
	Clinical Assistant P	rofessor of Neurosurgery	7194-2/96
	Director, Epilepsy a	nd Functional Neurosurgery Pr	ogram
	University of	f California, Davis—East Bay 7	194-2196
Education: Pacific	Neuroscience	Fellowship in Functional	
Insti	tute	Stereotactic Neurosurgery	7/94-6/95
Yale Scho	University ool of Medicine	Fellowship in Epilepsy Surgery	7/93-6194
UCLA Cent	A Medical ter	Residency, Neurosurgery 7/	88-6/93
UCLA Cent	A Medical ter	Internship in Surgery	6/86-6/88

	Harvard Graduate School of Art and Sciences	PhD in Cell and Developmental Biology	6/81-6/86
	Harvard Medical School	MD	9/79-6/86
	Harvard College	AB cum laude in Biology 9	/75-6119
<u>Lang'</u>	Kes:		
	Chinese (Mandarin)		
	French (reading)		
<u>Licens</u>	ures and Certifications:		
	Diplomate, American Board of	Neurological Surgery	11/98
	California Physician and Surge	on	active
	Illinois Physician and Surgeon		inactive
	Ohio Physician and Surgeon		active
	DEA		active
Resear	<u>ch Training:</u>		
	Neurosurgical research laborat	ories, Yale (postdoctoral)	
	Neurophysiology and ic	onic mechanisms of epilepsy	
	in rat models and rese	cted human tissue	7/93-6194
	Laboratory of Dr. F. Edward D	Oudek, UCLA (postdoctoral)	7191-6192
	Basic neurophysiology	of epilepsy in rat models	
	Epileptiform activity an	d the extracellular ionic	
	Laboratory of Dr Marc A Diel	nter Harvard (graduate studies)	1/81-10/84
	Surface antigens of neu development	ronal and muscle cells in	1/01-10/04
	Neurophysiology of cor neurons in culture	tical, spinal cord and brainstem	
	Neurophysiology of cen	tral and peripheral catecholamine	rgic
	I aboratory of Dr. Dichard I. S.	idmon Horword	10/79_9/80
	Quantitative neuroanat	omy of cerebellum in mutant	10/7/-//00
	mice	U U	
	Laboratory of Dr. Farish Jenki	1s, Harvard	9/75-10/76
	Vertebrate paleontolog	y	
	(Mesozoic <u>Mammals</u>)		
<u>Honor</u>	s and Awards:		
	Merritt-Puna/um Fellowship, E	pilepsy Foundation of America	1993
	Junior Investigator Award, An	nerican Epilepsy Society	1992
	Visiting Lecturer, Beijing Neur	osurgical Institute	1991
	Medical Scientist Training Pro	gram (NM) awardee	1981

<u>Professional Memberships:</u>	
American Association of Neurological Surgeons	
American Epilepsy Society	
Congress of Neurological Surgeons	
Committee and Board Appointments:	
Research Committee, Kaiser Los Angeles Medical Center	2002
Professional Advisory Board, CURE	1998
(Citizens United for Research on Epilepsy)	
Scientific Advisory Committee, Northwestern	1997
Memorial Hospital Center for Clinical Research	
Chair, Feinberg Clinical Neuroscience Research Institute	1997
Epilepsy Focus Group	
Professional Advisory Board,	
1996	
Epilepsy Foundation of Greater Chicago	1007
Editorial Board, UNC Neurosurgery Email List	1996 1997
Faculty Expenses Committee, Northwestern University Medical S	chool 1997
Department of Surgery	
OR Design Executive Committee, Northwestern Memorial	1006
HOSPITAI Surgical Chiefe and Chairman Committee Northwestern	1990
Surgical Chiefs and Chairmen Committee, Northwestern Memoviel Hespitel	1996
Melliorial Hospital Executive Council International Committee Congress of	1996
Neurological Surgeons	1770
Invited Lectures and Conferences	
"Surgical Treatment of Epilepsy," Wright State University Neuroscience	Nov. 14, 2012
Grand Rounds	,
"Future Directions in Deep Brain Stimulation," UCSD Neuroscience	Apr. 1, 2011
Grand Rounds	
"Update in Movement Disorder Surgery," Kaiser CME Course	Mar. 30, 2007
"Gap Junctions, Non-Synaptic Mechanisms, and Epileptogenesis,"	April 24, 2001
Spring Epilepsy Research Conference, Grand Cayman, BWI	
"Epilepsy Surgery in Modern Neurosurgical Practice,"	Dec. 29, 1999
Sri Lankan North American Medical Society Annual Meeting,	
Colombo, Sri Lanka	N 2 1000
"Pallidotomy and Other Surgical Treatments for Movement Disorders,"	Nov. 3, 1999
Congress of Neurological Surgery seminar	Oct 31 1000
"Intracranial Monitoring for Epilepsy,"	001. 31, 1999
"nll Modulation of Non sympatic Saigure Dropogation "	Dec 8 1998
American Fnilensy Society participatory roundtable	Dec. 0, 1770
"Intracranial Monitoring for Eniloney "	Oct. 3. 1998
Congress of Neurological Surgery hands-on course	
"Surgery for Temporal Lobe Epilepsy,"	Sep. 30, 1997

"The Surgical Treatment of Epilepsy,"	
Clinical Update in Epilepsy, Northwestern University, Chica	ago IL Jun. 12, 1999
Epilepsy Society of Northeast Illinois, Libertyville, IL	Oct. 16, 1997
Swedish Covenant Hospital, Chicago IL	Feb. 5, 1997
Northwest Community Hospital, Arlington Heights IL	Oct 17 1996
Elmhurst Memorial Hospital. Elmhurst IL	Sen 17 1996
Gottlieb Memorial Hospital, Chicago II.	Δυσ 12 1996
Enilensy League of the East Bay, Oakland, CA	Ian 74 1995
Scientific Committee and Co-Chair. Section on	Jan. 24, 1995
Pathonhysiology. "Enilensy—A Developing World" confere	nce 1006
(continuing joint project of the David Lewis Centre Cheshir	·e 1330
UK and the Ministry of Health China)	.,
"Fnilansy_A Substrata Basad Classification " Conference on	Ann 24 1006
Epicepsy—A Substrate-Dascu Classification, Conference on Epilopsy in the Developing World, Dejiing	Apr. 24, 1996
"Investive Electron busicle give Manitoving "	EL 0 1007
Invasive Electrophysiological Monitoring,	Feb. 8, 1996
University of California, San Francisco Epilepsy Program	
Visiting Professor, Sir Run Run Snaw Hospital, Zhejiang Medical	. Feb-Apr.1995
College Department of Neurosurgery, Hangzhou, Ch	ina
"Synaptic and Nonsynaptic Mechanisms of Seizure Onset,"	July 7, 1994
University of California, San Francisco Epilepsy Program	
Other Teaching Activities	
Surgery for Parkinson's Disease. Internal Medicine Grand Rounds.	Dec. 2, 2003
Kaiser West Los Angeles Medical Center	2000 2, 2000
Surgical Care of Enilensy and Parkinson's Disease	
Surgical Care of Epilepsy and Parkinson's Disease: Staff Nurse Educational Seminar	Apr 27 2000
Surgical Care of Epilepsy and Parkinson's Disease: Staff Nurse Educational Seminar	Apr. 27, 2000 Oct. 21, 1999
Surgical Care of Epilepsy and Parkinson's Disease: Staff Nurse Educational Seminar	Apr. 27, 2000 Oct. 21, 1999 Jan. 28, 1999
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Surgical Care of Epilepsy and Parkinson's Disease: Staff Nurse Educational Seminar Grand Rounds, Neurosurgery: Surgical Treatment of Epilepsy Didactic Rounds, Surgery Clinical Clerkship: 23, 1999 Modern Management of Head Injury Innovations in Perioperative Practice: Surgery for Movement Dis Grand Rounds, Neurosurgery: Advances in Surgery for Movement Dis Grand Rounds, Neurosurgery: Advances in Surgery for Movement Disorders Graduate Course in Clinical Neuroscience: Neurophysiology of Seizures Grand Rounds, Medicine: Surgery for Movement Disorders M2 Physical Diagnosis course May, 1997 Neurology interactive course: Movement Disorders Grand Rounds, Neurology: Surgical Treatment of Epilepsy Grand Rounds, Neurology: Surgery for Movement Disorders Neurology interactive course: Brain biopsies Grand Rounds, Neurosurgery: Surgical Treatment of Epilepsy	Apr. 27, 2000 Oct. 21, 1999 Jan. 28, 1999 Feb. Oct. 27, 1998 sorders Aug. 8, 1998 Feb. 16, 1998 Feb. 16, 1998 Oct. 3, 1997 February— Apr. 23, 1997 Feb. 25, 1997 Oct. 22, 1996 Apr. 19, 1996 March 25, 1996

Publications:

Re, ereed Journal Articles

- 1. Lee T, Mane S, Eid T, Zhao H, Lin A, Guan Z, Kim JH, Schweitzer J, King-Stevens D, Weber P, Spencer SS, Spencer DD, deLanerolle NC. Gene expression in temporal lobe epilepsy is consistent with increased release of glutamate by astrocytes. Mol. Med 2007, 13(1-2): 1-13.
- 2. Eid T, Brines ML, Cerami A, *Spencer* DD, Kim *3*, Schweitzer JS, Ottersen OP, deLanerolle NC. Increased Expression of Erythropoietin Receptor on Blood Vessels in the Human Epileptogenic Hippocampus with Sclerosis. Journal of Neuropathology and Experimental Neurology 2004, 63(1): 73-83.
- 3. Chayasirisoblion S., Chayasirisobhon W.V., Koulouris S., Gurbani S.G., Enos B., Hwang J., Schweitzer *IS.*, Callan L., Principe K., Earnest K. Vagus Nerve Stimulation Therapy for Drug-resistant Epilepsy. Acta Neurologica Taiwanica 2004, 12(3): 123-129.
- 4. Schweitzer JS, H Wang, Z.Q. Xiong, J.L. Stringer. pH sensitivity of non-synaptic field bursts in the rat dentate gyrus. J Neurophysiol. 2000, 84: 927-933.
- 5. Patrylo PR, Schweitzer JS, Dudek FE. Abnormal responses to perforant path stimulation in the dentate gyrus of slices from kainate-induced epileptic rats with mossy fiber reorganization. Epilepsy Res. 1999 36(1):31-42.
- 6. Keller T, Schweitzer 3S, Helfend LK, Chappell ET. Treatment of progressive cervical spinal instability secondary to hydatid disease: case report. Spine, 1997 22(8): 915-919.
- 7. Patrylo PR., Copus, AJ, Schweitzer JS and Dudek FE. Multiple-unit recordings during slow field-potential shifts in low-(Ca2+] solutions in rat hippocampal and cortical slices. Neuroscience, 1996, 74:107-118.
- 8. Schweitzer JS, Williamson A. Relationship between synaptic activity and prolonged field bursts in the rat dentate gyrus in vitro. J Neurophysiol, 1995, 74(5):1947-1952.
- 9. Pauylo PR, Schweitzer JS, Dudek FE. Potassium-dependent prolonged field bursts in the dentate gyros: Effects of extracellular calcium and amino acid receptor antagonists. Neuroscience, 1994, 61(1):13-19.
- 10. Schweitzer JS, Chang BS, Madsen P, Vinuela F, Marroquin CE, Martin NA and Vinters HV. The pathology of arteriovenous malformations of the brain treated *by* embolotherapy. II. Results of embolization with multiple agents. Neuroradiology, 1993, 35(6): 468-74.

- Schweitzer JS, Batzdorf U. Ependymoma of the filum terminate and cauda equina-diagnosis, treatment and outcome in fifteen patients. Neurosurgery, 1992, 30: 202-207.
- 12. Schweitzer IS, Patrylo P, Dudek FE. Prolonged field bursts in the dentate gyrus: dependence on low calcium, high potassium and nonsynaptic interactions. J Neurophysiol, 1992, 68: 2016-2025.
- 13. Roper SN, Mena I, King WA, Schweitzer J, Garrett K, Mehringer CM, McBride DM. An analysis of cerebral blood flow in acute closed head injury using Tc-99m HMPAO SPECT and CT. 1 Nuclear Med, 1991, 32:1684-1687.
- 14. Schweitzer JS, Dichter MA, Kaufman SJ. Fibroblasts modulate expression of Thy-1 on the surface of skeletal myoblasts. Exp Cell Res, 1987, 172: 1-20.
- 15. Schweitzer JS, Kaufman SJ, Dichter MA. Differential expression and modulation of Thy-1 on myoblast clones. Exp Cell Res, 1987, 172: 21-31.
- 16. Brown RH Jr., Schweitzer .1S, Audhya T, Goldstein G, Dichter MA. Immunoreactive thymopoietin in the mouse central nervous system. Brain Res, 1986, 402: 156-162.
- 17. Rosenberg PA, Schweitzer JS, Dichter MA. Effects of norepinephrine on rat neocortical neurons in dissociated cell culture. Brain Res, 1985, 344: 369-372.
- 18. Brown RH Jr., Schweitzer JS, Dichter MA. Expression of the Thy-1 antigen in longterm cultures of embryonic mouse spinal cord. Brain Res, [984, 296: 87-91.

Book Chapters and Non-Refereed Papers

- I. Chayasirisobhon, S., Koulouris, S., Parker, E., Ngoc, L., Enos, B., Callan, L., Earnest, K., Hwang, J., Principe, K., Schweitzer, J.S. Vagus Nerve Stimulation for Refractory Epilepsy. *Permanente Journal* 5(4): 21-26, 2003.
- 2. Schweitzer JS. Editor, Section on Stereotactic and Functional Neurosurgery, *Textbook of Neurological Surgery*, H. Batjer and C. Loftus, Lippincott Williams and Wilkins, Philadelphia, 2003.
- 3. Schweitzer, S. Thalamotomy and Pallidotomy for Movement Disorders. In *Textbook* of Neurological Surgery, IL Batjer and C. Loftus, Lippincott Williams and Wilkins, Philadelphia, 2003 pp. 2697-2705.

- 4. Schweitzer, JS. Sympathectomy fur Hyperhidrosis. In *Textbook of Neurological Surgery*, H. Batjer and C. Loftus, Lippincott Williams and Wilkins, Philadelphia, 2003, pp. 2777-2782.
- 5. Schweitzer JS. Surgical Treatment of Parkinson's disease. Guest editor, Techniques in Neurosurgery, 1999, (5)1.
- 6. Schweitzer 3S, Dudek FE. Seizures, glia, and extracellular space. In *Contemporary Neuropharmacology: Pathogenesis. Neurotransmitters and Drug Action*, Gross RA and Greenamyre IT eds., vol. 1, *Epilepsy and Drug Mechanisms*, Humana, 1998.
- 7. Schweitzer IS, Spencer DD. Surgical treatment of epilepsies due to congenital, traumatic, infectious and uncertain etiologies. In *The Treatment of Epilepsy*, SD Shorvon, FE Dreifuss, DR Fish eds., Blackwell Science Inc., Oxford, 1996, chapter 52.
- 8. Dudek FE, Obenaus A, Schweitzer IS, Wuarin JP. Functional significance of hippocampal plasticity in epileptic brain: Electrophysiological changes of the dentate granule cells associated with *mossy* fiber sprouting. Hippocampus, 1994, 4(3):259-265.
- 9. Schweitzer JS, Bergsneider M, Becker DP. Intracranial pressure monitoring in the perioperative patient. In *Anesthesia and Neurosurgery*, JE Cottrell and DS Smith, editors, Mosby Year Book, 3994, pp 117-135.
- 10. Schweitzer IS. <u>Modulation of Thy-1 Antigen Expression During Myogenesis In</u> Vitro. Thesis, Harvard University, 1985.

Abstracts

- 1. Chayasiribhon S, Cahan L, Choi S, Enos 13, Hwang J, Lin M, Schweitzer I, Spurgeon B, Stuckert E, Gurbani S. Efficacy of vagus nerve stimulation in patients on unchanged dose of antiepileptic drug regimen⁻² year outcome at a community medical center. American Epilepsy Society Annual Meeting, 2012.
- 2. Hwang J, Enos B, Cahan L, Schweitzer J, Chayasiribhon S, Earnest K, Spurgeon B, Gurbani S, Sindhu H, Lin M. Outcome of epilepsy surgery in older patients. American Epilepsy Society Annual Meeting, 2012.
- 3. Schweitzer IS. Bilateral globes pallidus stimulation for treatment of Meige syndrome. Congress of Neurological Surgery Annual Meeting, 2000.
- 4. Schweitzer IS, Wang H. pH-dependent synchronization of field bursts in human hippocampal slices. Epilepsia 1999, 40 (S7): 37-38.

- 5. Schweitzer IS. Use of a stereotactic workstation for planning of deep brain stimulator implantation. American Association of Neurological Surgeons Annual Meeting, 1999.
- 6. Wang H, Schweitzer is. pH sensitivity of non-synaptic seizure propagation. Congress of Neurological Surgery Annual Meeting, 1998.
- 7. Schweitzer IS, Patrylo PR, Williamson A. Extracellular pH and nonsynaptic bursts. Epilepsia 1998, 39(Suppl. 6), 19.
- 8. Meyer JR, Gitelman DR, Schweitzer 3, Callahan C, Parrish T, Batjer H, Russell El, Mesulam M-M. Reorganization of dominant hand motor function associated with arteriovenous malformation—a functional MRI study. Soc. for *Neuroscience* abstracts 576.12, 1996.
- 9. Schweitzer IS, Spencer DD. Epilepsy—A substrate-based classification. Epilepsy-A Developing World, 21:P1A1, Beijing, 1996.
- 10. Lee S, Schweitzer JS, Williamson A. Glial cells may contribute to non-synaptic field bursts in the rat. Epilepsia, [995, 36(Supp1.3), 543.
- 11. Schweitzer IS, Lee S, Kato K, Spencer DD, Williamson A. Propagation of nonsynaptic field bursts in rat dentate gyms: the role of glia and slow oscillatory field potentials. Epilepsia, 1995, 36(Suppl. 4):62.
- 12. Lee 5, Schweitzer IS, Williamson A. Synaptic activity initiates nonsynaptic bursts in rat dentate gyms. Epilepsia, 1994, 35 (Suppl.).
- 13. Schweitzer 35, Lee S, Williamson A, Spencer DD. Prolonged field bursts in the human hippocampus in vitro. Epilepsia, 1994, 35 (Suppl. 8):40.
- 14. Chang BS, Schweitzer JS, Vinters HV. Tissue reaction to multiple embolization agents in tumors and AVMs. Amer. Soc. Clin. Pathol., New Orleans 1992.
- 15. Schweitzer JS, Dudek FE. An in vitro analysis of the dentate gyms as a gate for hippocampal seizures: mechanisms, ionic dependence, and altered function in a chronic seizure model. Congress of Neurological Surgeons Annual Meeting, 1992.
- 16. Schweitzer 3S, Dudek FE. Threshold for maximal dentate activation in vitro is altered in kainate-treated rats. Epilepsia, 1992, 33(Suppl.): 32.
- 17. Schweitzer IS, Patrylo PR, Dudek FE. Maximal dentate activation in vitro. Epilepsia, 1992, 33(Suppl.): 33.
- 18. Schweitzer IS, Vinters HV, Vinuela F, Martin NA. The use of multiple agents in pre-operative embolization of encephalic AVMs. I Neuropath Exp Newel 1990, 49:282.

- 19. Rosenberg PA, Schweitzer JS, Dichter MA. Norepiaephrine increases synaptic activity in rat cerebral cortex in dissociated cell culture. Soc Neurosci Abstr 1984, 24.10.
- 20. Schweitzer JS, Brown RH, Audhya T, Goldstein G, Dichter MA. Detection of immunoreactive thymopoietin in mouse central nervous system. Soc Neurosci Abstr, 1984, 210.8.
- 21. Brown RH, Perry L, Schweitzer JS, McKnight P, Greene M, Dichter MA. Monoclonal antibodies against cellular elements of mouse spinal cord. Neurology, 1982, 32(4 Part 2):A87.
- 22. Brown RH Jr., Schweitzer JS, Dichter MA. Expression of the Thy-1 antigen in longterm cultures of embryonic mouse spinal cord. Soc Neurosci Abstr, 1981, 101.10.



THE AMERICAN BOARD OF

NEUROLOGICAL SURGERY

HEREBY CERTIFIES THAT

afTs gcfluseitzer m.

HAS FULFILLED THE REQUIREMENTS OF

THIS BOARD FOR CERTIFICATION IN

NEUROLOGICAL SURGERY

November 13,1998

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