Robert Fisher, M.D., Ph.D. - Biography

Dr. Fisher is Maslah Saul MD Professor of Neurology and Director of the Stanford Comprehensive Epilepsy Center. He received his Ph.D. in the Neurosciences in 1976 and a M.D. in 1977, from Stanford University. He then took specialty training in internal medicine at Stanford and in neurology at Johns Hopkins, where he was Co-Director of the Epilepsy Program for eleven years. He formerly was Chairman of the Department of Neurology, Chief of the Epilepsy Center at Barrow Neurological Institute in Phoenix, and Newsome Professor of Clinical Neurology at the University of Arizona.

Dr. Fisher's professional goal is to derive new treatments for previously untreatable seizure disorders by merging information from research laboratories with clinical practice. He is author or co-author of over 120 peer-reviewed publications in medical journals, two books on epilepsy and two monographs. He frequently chairs symposia and meetings, speaks at national or international conferences on subjects related to seizure disorders, has been on review boards for national grant applications, and currently serves on the editorial board of several epilepsy and EEG-related journals. He has won research awards from the Klingenstein Foundation, the Epilepsy Foundation of America and the National Institutes of Health. His peers named him to be listed 1996-2003 in *Best Doctors in America.* He was given the Ambassador Award from the International League Against Epilepsy.

Dr. Fisher has served as President of the Epilepsy Society of Arizona; founding chair of the AES Public Education Committee and of the Research Committee; chair of the EFA Research Initiative Campaign, EFA Research Grants and Fellowships Committee, and the EFA Advocacy Committee; EFA Executive committee and as a member of the AES Research Awards Committee and AES Secretary for three years. He is Past-President of the American Epilepsy Society, and currently serves on the Board of the International League Against Epilepsy and Editor-in-Chief of the Journal, *Epilepsia*.

CURRICULUM VITAE: Robert S. Fisher

Revised 15 September 2006

A. BIOGRAPHICAL INFORMATION

1. Name:	Robert S. Fisher, M.D., Ph.D.
2. California licensure:	CA license G00037260
Title:	Maslah Saul MD Professor of Neurology Director, Stanford Comprehensive Epilepsy Center Stanford University School of Medicine
Business Address:	Department of Neurology, Room H3113 Stanford University School of Medicine 300 Pasteur Drive Stanford, CA 94305-5235 Voice (650) 725-6648
Marital Status	Married to Donna E. Fisher, No children
Professional Interests:	Epilepsy Electroencephalography Clinical Neurology Antiepileptic medications Cellular Neurophysiology

B. ACADEMIC HISTORY

1. Universities Attended

California Institute of Technology, B.S. Biology	June, 1971
Stanford University, Ph.D. in Neurosciences	June, 1976
Stanford University School of Medicine, M.D.	June, 1977

2. Scholarships and Honors

1966 Valedictorian, Nova High School.
1971 Caltech Sigma Xi Award for Outstanding Research (with Roger Sperry)
1971 George Green Memorial Award: "Outstanding Research," Caltech.
1971 Hinrichs Memorial Award, Caltech, for “Outstanding Leadership” to students
1976 Hans Berger Award, American EEG Society.
1977 Roland P. Mackay Award, American Academy of Neurology.

1981 Chief Residency in Neurology, Johns Hopkins Hospital.
1982 Teacher Investigator Development Award, NINCDS.
1985 Klingenstein Fellowship in Neurosciences
1999 Best Doctors in Phoenix
1999 President, American Epilepsy Society
2000 Marquis Who′s Who in America, New Providence, NJ
2000 Best Doctor's in America, 2000
2001 Ambassador for Epilepsy Award by the International League Against Epilepsy
2001 Best Doctors in America, and in the Pacific
2001 Editor-in-Chief, *Epilepsia* (4 years)
2002 Best Doctors in America, and in the Pacific
2003 Best Doctors in America
2003 Most outstanding Contributor to Epilepsy, by Epilepsy Foundation of N. Calif.
2004 Best Doctors in America
2004 National Service Award (1 in US annually) from American Epilepsy Society
2005 National Register's Who's Who for 2005
2005 Best Doctors in America
2006 Best Doctors in America

3. Post-Doctoral and Residency Training

Organization	Rank	Institution	Dates
Neuroscience	Acting Instructor	Stanford	9/76 - 12/76
Medicine	Intern	Stanford	7/77 - 6/78
Medicine	Resident	Stanford	7/78 - 6/79
Neurology	Fellow	Johns Hopkins	7/79 - 6/82
Physiology	Research Assoc	U. of Maryland	7/82 - 6/83

4. Boards Passed

a. American Board of Psychiatry and Neurology, Certificate # 25418, 11/83
b. American Board of EEG and Evoked Potential, 1991
c. Special Competence in Clinical Neurophysiology, 3/1992, renewed 2002

5. Other Study and Research Opportunities

a. 1970 NSF Traineeship, Caltech, with Dr. Roger Sperry (Nobel Laureate).
b. 1972 Medical Scientist Training Program Fellowship (NIH GM01922).
c. 1988 Visiting Clinical Scholar, Lilly Pharmaceuticals, Indianapolis.
d. 1993 Merritt-Putnam Visiting Professor, South Africa, 3/93.

C. EMPLOYMENT HISTORY

09/76 - 12/76	Neuroscience	Acting Instructor	Stanford
07/82 - 06/83	Neurology	Instructor	Johns Hopkins

07/83 - 12/87	Neurology	Assistant Prof	Johns Hopkins
04/85 - 09/85	EEG Lab	Acting Director	Johns Hopkins
07/86 - 12/91	Monitoring Unit	Co-Director	Johns Hopkins
12/87 - 12/91	Neurology	Associate Prof	Johns Hopkins
01/92 - 10/00	Epilepsy Center	Director	Barrow Institute
01/96 - 10/00	Neurology Professor	Clinical	U. of Arizona
10/98 – 10/00	Neurology	Chairman	Barrow Institute
10/00 - now	Neurology	Named Professor	Stanford

D. PUBLIC AND PROFESSIONAL SERVICE

1. Public and Professional Appointments

1985 Member, Professional Advisory Board, Epilepsy Association of Maryland.
1986 Member of Epilepsy Branch of NIH committee on new drug development.
1987 Eastern EEG Society
1987 Member Professional Advisory Board of Epilepsy Foundation of America
1988 Chair American Epilepsy Society Research Committee
1988 Co-Chair, Epilepsy Association of Maryland, Baltimore
1988 NINCDS Neurosciences Study Section A, ad hoc member.
1989 Liaison, American Academy of Neurology & American Epilepsy Society.
1989 Chair, Fellowship Committee, Epilepsy Foundation of America.
1991 AES representative to national panel on driving and epilepsy
1991 Medical Advisory Board of the Maryland Motor Vehicle Administration
1992 Arizona Epilepsy Society, Professional Advisory Board
1992 American Epilepsy Society Research Awards Committee, 1992-1995
1992 Consulting Neurologist, Arizona State Department of Motor Vehicles (4 years)
1994 Founding Chair of the American Epilepsy Society Public Education Committee
1994 Vice-President and Board member, Epilepsy Society of Arizona
1995 Founding Chair of the American Epilepsy Society Research Committee
1997 National Executive Committee, Epilepsy Foundation of America
1997 President, Epilepsy Society of Arizona (2 years)
1998 Chair, Epilepsy National Database committee (sponsored by AES and Glaxo)
1998 President Epilepsy Society of Arizona
1999 Epilepsy Foundation of America, Strategic Planning Committee
2000 Executive Committee of the Board, International League Against Epilepsy
2001 Board, Epilepsy Foundation of Northern California (4-year term)
2004 Co-chair, EFA Consensus Conference on Photosensitivity, Alexandria, VA.
2006 NIH Special Panel Grant Reviewer

2. Journal Editorships and Reviews

1986 Associate Editor of the journal *Epilepsia* (4-year term)
1992 Associate Editor, EEG Journal
1992 Editor-in-Chief, AES Society News

1992 Field Editor, Epilepsy Advances
2000 Associate Editor, *Epilepsy & Behavior* (Awarded "Best New Journal")
2001 Editor-in-Chief, *Epilepsia* (4-year term)

Ad hoc for *NEJM, Neurology, Annals of Neurology, Archives of Neurology, Journal of Epilepsy, Journal of Neurosurgery, Neurosurgery, Clinical Neurophysiology, Lancet, Brain, Brain Research, Journal of Neurology, Neurosurgery and Psychiatry,* and several others.

3. University Service (except for teaching, listed below)

1988 Director, Adult Epilepsy Clinics, Johns Hopkins Hospital
1990 Member, Neurology Chief Search Committee, Hopkins Affiliate
1993 Medical Director for Electroneurodiagnostic (EEG, evoked potentials) nationally accredited program with Phoenix College.
1995 Executive Committee, Barrow Neurological Foundation (5 years)
2000 Medical Director, Stanford EEG laboratory (ongoing)
2001 Medical Director, Stanford Hospital Epilepsy Monitoring Unit (ongoing)
2002 Member, Stanford Neurology Department Executive Committee
2002 Member, Stanford Neurology Department Senior Faculty Group
2003 Member, Neurology Resident Interview and Selection Committee (ongoing)
2003 Substitute at Council of Chairs, as requested (about every 3 months)
2004 Member, Appointments and Promotions Committee, Stanford (4 years)
2004 Member, Search Committee, OB-GYN Chair
2004 Member, Neuroscience Scholarly Track Selection and Advisory Group
2004 Member, Stanford Curriculum Alignment Working Group
2004 Founding Medical Director, Stanford Episodic Disorders Center (in progress)
2004 Member, "Neurosciences Institute at Stanford" Executive Committee
2005 Member, Search Committee, Chair of Stanford OB-GYN
2005 Member, Medical School Admissions Committee Auxiliary Group
2005 Member, Neuroscience Graduate Students applicant interview committee
2006 Member, Search Committee, Glaucoma Faculty for Stanford Ophthalmology

4. Teaching

1987 Director, Johns Hopkins Neurology Clerkship (3 years)
1996 Director, Phoenix Division of the U Az Neurology Clerkship (3 years)
2001 Director, Stanford Neurology Clerkship (4 years)
2001 Program Chair, Stanford Clinical Neuroscience's Symposium (3 years)
2002 Chair, Education Committee, Neurology, Stanford (5 years)
2003 Stanford Committee on Student Performance (3 years)
2003 Member, Clerkship and Required Clerkship Directors Committees (5 years)
2003 Member Biodesign Faculty, Lectures and Mentoring (2-year term for Neuroscience segment)
2004 Lectures 1-2 per week every week for the Neurology clerkship students.

2005 Lecture, Practice of Medicine Course, Approach to Neurological Disorders
2005 Director, Weekly Departmental Seizure Conference for Teaching and Patient Care

Teaching Awards

1984 Frank Ford Award for best clinical teaching, Johns Hopkins Neurology.
1992 St. Joseph's Hospital Award from Nurses for best teaching in the hospital.
1993 Selected as visiting Professor, one-month tour of six medical schools in South Africa.
2003 "Excellence in Teaching" pin from the Dean's Office of Student Affairs
2004 "Leadership in Education" pin from the Dean's Office of Student Affairs
2005 Finalist for the Franklin Ebaugh Student Advising Award (4 finalists in the Medical School)
2005 Neurology Clerkship Teaching Award (for multiple favorable student evaluations)
2006 Neurology Clerkship Teaching Award (for multiple favorable student evaluations)
2006 Forno Award by Neurology Residents for best teaching of the year
2006 Neurology established the "Robert Fisher" annual award for best teaching resident

E. POST-DEGREE HONORS AND AWARDS, INCLUDING MEMBERSHIPS

1989 Elected to the American Neurological Association.
1990 Program Chair, national meeting, American Epilepsy Society, San Diego.
1990 National Secretary, American Epilepsy Society (3-year term)
1990 Chair, Epilepsy Foundation Research Committee
1991 Senior Fellow, American EEG Society
1991 Western EEG Society
1991 National Secretary (3 years) American Epilepsy Society
1994 NIH (NINDC) Antiepileptic Drug Trial Monitoring Committee
1995 EEG Society Council (now American Society for Clinical Neurophysiology)
1996 Chair, Epilepsy Foundation of America's Research Committee 1996-1999.
1998 Fellow, American Academy of Neurology
1998 Chair, Neurology Department, Barrow Neurological Institute (two years)
1998 Vice-Chair, Barrow Neurological Institute (two years)
1999 National President, American Epilepsy Society
2000 International Ambassador for Epilepsy Award, Int. League Against Epilepsy
2001 International League Against Epilepsy, Web and Communications Committee
2002 International League Against Epilepsy, Finance Committee
2003 Scientific Board and Grant Reviewer, The Epilepsy Project (3-year term)
2004 Epilepsy Foundation of America, Research Committee
2005 Best Doctors in America Each Year, 2000-2006

G. PUBLICATIONS

1. Peer-Reviewed Articles (As of 7/7/06 - Total 135: 131 published, 3 in press and 1 submitted. First author for 51, senior author for 44. Since 2000, year of appointment, 34 publications, some based on earlier work).

1. Pedley TA, **Fisher RS**, Moody WJ, Futamachi KJ, Prince DA. Extracellular potassium activity during epileptogenesis: a comparison between neocortex and hippocampus. Transactions of the American Neurological Association 1974; 99: 41-45.

2. **Fisher RS**, Pedley TA, Moody WJ, Jr., Prince DA. The role of extracellular potassium in hippocampal epilepsy. Archives of Neurology 1976; 33: 76-83.

3. **Fisher RS**, Prince DA. Cortical unit activity during generalized seizures induced by penicillin. Transactions of the American Neurological Association 1976; 101: 187-192.

4. **Fisher RS**, Pedley TA, Prince DA. Kinetics of potassium movement in normal cortex. Brain Research 1976; 101: 223-237.

5. Pedley TA, **Fisher RS**, Prince DA. Focal gliosis and potassium movement in mammalian cortex. Experimental Neurology 1976; 50: 346-361.

6. Pedley TA, **Fisher RS**, Futamachi KJ, Prince DA. Regulation of extracellular potassium concentration in epileptogenesis. Federation Proceedings 1976; 35: 1254-1259.

7. **Fisher RS**, Prince DA. Spike-wave rhythms in cat cortex induced by parenteral penicillin. II. Cellular features. Electroencephalography & Clinical Neurophysiology 1977; 42: 625639.

8. **Fisher RS**, Prince DA. Spike-wave rhythms in cat cortex induced by parenteral penicillin. I. Electroencephalographic features. Electroencephalography & Clinical Neurophysiology 1977; 42: 608-624.

9. **Fisher RS**, Uematsu S. Surgical therapy of complex partial epilepsy. The Johns Hopkins Medical Journal 1982;151:332-343 (reviewed article).

10. Bernstein J, & **Fisher RS**. Excessive glutamate as an inhibitor of excitatory transmission in rat hippocampal slice, Neurosci Lett 1985 61:1-5.

11. Bernstein J, **Fisher RS**, Zaczek R and Coyle JT. Dipeptides of glutamate and aspartate may be endogenous neuroexcitants in the rat hippocampal slice, J Neurosci 1985;5:1429-1433.

12. The Guillain-Barre Syndrome Study Group (includes **Fisher RS**). Plasmapheresis and

acute Guillain-Barre Syndrome, Neurology 1985; 35:1096-1104.

13. ffrench-Mullen JM, Murphy TH, Coyle JT, **Fisher RS**. Dicarboxylic amino acids block epileptiform activity in hippocampal slice. Epilepsia 1986; 27: 678-684.

14. ffrench-Mullen JM, Lehmann J, Bohacek R, **Fisher RS**. Tiletamine is a potent inhibitor of N -methyl - aspartate - induced depolarizations in rat hippocampus and striatum. Journal of Pharmacology & Experimental Therapeutics 1987; 243: 915-920.

15. **Fisher RS**. The hippocampal slice, Am J EEG Tech 1987;27:1-14.

16. **Fisher RS**. Management of status epilepticus, J Crit Illness 1987;2:27-38.

17. **Fisher RS**. First seizure management--reconsidered. Response II. Archives of Neurology 1987; 44: 1189-1190.

18. **Fisher RS**, Niedermeyer E. Depth EEG studies in the Lennox-Gastaut syndrome. Clinical Electroencephalography 1987; 18: 191-200.

19. **Fisher RS**, Kaplan PW, Krumholz A, Lesser RP, Rosen SA, Wolff MR. Failure of high-dose intravenous magnesium sulfate to control myoclonic status epilepticus. Clinical Neuropharmacology 1988; 11: 537-544.

20. **Fisher RS**, Cysyk B. A fatal overdose of carbamazepine: case report and review of literature. Journal of Toxicology - Clinical Toxicology 1988; 26: 477-486.

21. **Fisher RS**, Krumholz A. Driving and epilepsy. Maryland Medical Journal 1988; 37: 795-798.

22. Frost JJ, Mayberg HS, **Fisher RS** et al. Mu-opiate receptors measured by positron emission tomography are increased in temporal lobe epilepsy. Annals of Neurology 1988; 23: 231-237.

23. Hansen JS, Ko HW, **Fisher RS**, Litt B. Practical limits on the biomagnetic inverse process determined from in vitro measurements in spherical conducting volumes. Physics in Medicine & Biology 1988; 33: 105-111.

24. Kaplan PW, Lesser RP, **Fisher RS**, Repke JT, Hanley DF. No, magnesium sulfate should not be used in treating eclamptic seizures. Archives of Neurology 1988; 45: 1361-1364.

25. McKhann GM, Griffin JW, Cornblath DR, Mellits ED, **Fisher RS**, Quaskey SA. Plasmapheresis and Guillain-Barre syndrome: analysis of prognostic factors and the effect of plasmapheresis. Annals of Neurology 1988; 23: 347-353.

26. Cole AE, Eccles CU, Aryanpur JJ, **Fisher RS**. Selective depression of N-methyl- D-mediated responses by dextrorphan in the hippocampal slice in rat. Neuropharmacology 1989; 28: 249-254.

27. Cole AE, ffrench-Mullen JM, **Fisher RS**. Fade of the response to prolonged glutamate application in the rat hippocampal slice. Synapse 1989; 4: 11-18.

28. Famiglio L, Racusen L, Fivush B, Solez K, **Fisher RS**. Central nervous system toxicity of cyclosporine in a rat model. Transplantation 1989; 48: 316-321.

29. **Fisher RS**. Animal models of the epilepsies. Brain Research Reviews 1989; 14: 245-278.

30. Krauss GL, Kaplan P, **Fisher RS**. Parenteral magnesium sulfate fails to control electroshock and pentylenetetrazol seizures in mice. Epilepsy Research 1989; 4: 201-206.

31. Lesser RP, **Fisher RS**, Kaplan P. The evaluation of patients with intractable complex partial seizures. Electroencephalgraphy & Clinical Neurophysiology 1989; 73: 381-388.

32. **Fisher RS**. Aspartame, neurotoxicity, and seizures: a review, J Epilepsy 1989; 2:55-64.

33. Aryanpur J, Cole AE, Eccles CU, **Fisher RS**. Biphasic action of dextrorphan on penicillin induced bursting in rat hippocampal slice. Brain Research 1990; 519: 65-72.

34. Burnstine TH, Lesser RP, Hart J, Jr., Uematsu S, Zinreich SJ, Krauss GL., **Fisher RS**, Vining EP, Gordon B. Characterization of the basal temporal language area in patients with left temporal lobe epilepsy. Neurology 1990; 40: 966-970.

35. **Fisher RS**, Cysyk BJ, Lesser RP, Pontecorvo MJ, Ferkany JT, Schwerdt PR., Hart J, Gordon B. Dextromethorphan for treatment of complex partial seizures. Neurology 1990; 40: 547-549.

36. Gordon B, Lesser RP, Rance NE, Hart J, Jr., Webber R, Uematsu S, **Fisher RS**. Parameters for direct cortical electrical stimulation in the human: histopathologic confirmation. Electroencephalography & Clinical Neurophysiology 1990; 75: 371-377.

37. Kaplan PW, Lesser RP, **Fisher RS**, Repke JT, Hanley DF. A continuing controversy: magnesium sulfate in the treatment of eclamptic seizures. Archives of Neurology 1990; 47: 1031-1032.

38. Racusen LC, McCrindle BW, Christenson M, Fivush B, **Fisher RS**. Cyclosporine lowers seizure threshold in an experimental model of electroshock-induced seizures in Munich-Wistar rats. Life Sciences 1990; 46: 1021-1026.

39. Uematsu S, Lesser R, **Fisher RS**, Krauss G, Hart J, Vining EP, Freeman J., Gordon B. Resection of the epileptogenic area in critical cortex with the aid of a subdural electrode grid. Stereotactic & Functional Neurosurgery 1990; 54-55: 34-45.

40. **Fisher RS**, Frost JJ. Epilepsy. Journal of Nuclear Medicine 1991; 32: 651-659.

41. Duque A, Lesser R, **Fisher RS**, McLesser RP, Uematsu S, Subdural Electrodes in the 1991. Evaluation of Patients with Epilepsy. American Journal EEG Technology 1991;31:183-190.

42. **Fisher RS**. Introduction to the excitatory amino acid system. Epilepsy Research 1991; 10: 3-8.

43. **Fisher RS**. Neuronal damage and epilepsy: basic and clinical interface. Epilepsy Research 1991; 10: 80-89.

44. **Fisher RS**, Chan DW, Bare M, Lesser RP. Capillary prolactin measurement for diagnosis of seizures. Annals of Neurology 1991; 29: 187-190.

45. Hart J, Jr., Lesser RP, **Fisher RS**, Schwerdt P, Bryan RN, Gordon B. Dominant-side intracarotid amobarbital spares comprehension of word meaning. Archives of Neurology 1991; 48: 55-58.

46. Jeffery PJ, Monsein LH, Szabo Z, Hart J, **Fisher RS**, Lesser RP, Gordon B, Wagner HN, Jr., Camargo EE. Mapping the distribution of amobarbital sodium in the intracarotid Wada test by use of Tc-99m HMPAO with SPECT. Radiology 1991; 178: 847-850.

47. Krumholz A, **Fisher RS**, Lesser RP, Hauser WA. Driving and epilepsy. A review and reappraisal. JAMA 1991; 265: 622-626.

48. Mayberg HS, Sadzot B, Meltzer CC, **Fisher RS**, Lesser RP, Dannals RF, Wilson AA, Ravert HT, Wagner HN Jr, et al. Quantification of mu and non-mu opiate receptors in temporal lobe epilepsy using positron emission tomography. Annals of Neurology 1991; 30: 3-11.

49. **Fisher RS**, Cole AE. Apparent desensitization to glutamate: possible role in epilepsy. Epilepsy Research - Supplement 1992; 8: 197-201.

50. **Fisher RS**, Uematsu S, Krauss GL, Cysyk BJ, McPherson R, Lesser RP, Schwerdt P, Rise M. Placebo-controlled pilot study of centromedian thalamic stimulation in treatment of intractable seizures. Epilepsia 1992; 33: 841-851.

51. **Fisher RS**, Mayberg HS, Frost JJ. Neuroreceptors and glucose metabolism in epilepsy

as studied by PET scanning. Epilepsy Research - Supplement 1992; 9: 351-9.

52. **Fisher RS**, Webber WR, Lesser RP, Arroyo S, Uematsu S. High-frequency EEG activity at the start of seizures. Journal of Clinical Neurophysiology 1992; 9: 441-448.

53. Krauss GL, Lesser RP, **Fisher RS**, Arroyo S. Anterior "cheek" electrodes are comparable to sphenoidal electrodes for the identification of ictal activity. Electroencephalography & Clinical Neurophysiology 1992; 83: 333-338.

54. Lesser RP, Webber WR, **Fisher RS**. Design principles for computerized EEG monitoring. Electroencephalography & Clinical Neurophysiology 1992; 82: 239-247.

55. Lesser RP, **Fisher RS**, Uematsu S. Assessment of surgical outcome. Epilepsy Research - Supplement 1992; 5: 217-229.

56. Uematsu S, Lesser R, **Fisher RS**, Gordon B, Hara K, Krauss GL, Vining EP, Webber RW. Motor and sensory cortex in humans: topography studied with chronic subdural stimulation. Neurosurgery 1992; 31: 59-71.

57. Krauss GL, **Fisher RS**. Alcohol and the EEG. Am. J. EEG Technol 1992;32:118-126.

58. Arroyo S, Lesser RP, Gordon B, Uematsu S, Hart J, Schwerdt P, **Fisher RS**. Mirth, laughter and gelastic seizures. Brain 1993; 116: 757-780.

59. **Fisher RS**. Emerging antiepileptic drugs. Neurology 1993; 43: S12-S20.

60. Hart J, Jr., Lewis PJ, Lesser RP, **Fisher RS**, Monsein LH, Schwerdt P, Gordon B. Anatomic correlates of memory from intracarotid amobarbital injections with technetium Tc 99m hexamethylpropyleneamine oxime SPECT. Archives of Neurology 1993; 50: 745-750.

61. Krauss GL, **Fisher RS**. Cerebellar and thalamic stimulation for epilepsy. Advances in Neurology 1993; 63: 231-245.

62. Müller-Gärtner HN, Mayberg HS, **Fisher RS**, Lesser RP, Wilson AA, Dannals RF, Wagner HN Jr., Uematsu S, Frost JJ. Decreased hippocampal muscarinic cholinergic receptor binding measured by ^{123}I-iododexetimide and SPECT in Epilepsy. Ann Neurol 1993; 34:235-8.

63. Webber WR, Litt B, Lesser RP, **Fisher RS**, Bankman I. Automatic EEG spike detection: what should the computer imitate?. Electroencephalography & Clinical Neurophysiology 1993; 87: 364-373.

64. Lyketsos CG, Stoline AM, Longstreet P, Ranen NG, Lesser RP, **Fisher RS**, Folstein M, Mania in temporal lobe epilepsy, Neuropsychiatry, Neuropsychology and Behavioral

Neurology 1993; 6:19-25.

65. The US Gabapentin Study Group No. 5 (includes **Fisher RS**). Gabapentin as add-on therapy in refractory partial epilepsy: a double-blind, placebo-controlled, parallel-group study. Neurology 1993; 43: 2292 - 2298.

66. Arroyo S, Lesser RP, **Fisher RS** et al. Clinical and electroencephalographic evidence for sites of origin of seizures with diffuse electrodecremental pattern. Epilepsia 1994; 35: 974-987.

67. Bare MA, Burnstine TH, **Fisher RS**, Lesser RP. Electroencephalographic changes during simple partial seizures. Epilepsia 1994; 35: 715-720.

68. Blum D, **Fisher RS**. Advances in epilepsy. Current Opinion in Neurology 1994; 7: 96-101.

69. **Fisher RS**, Parsonage M, Beaussart M, Bladin P, Masland R, Sonnen AE. Epilepsy and driving: an international perspective. Joint Commission on Drivers' Licensing of the International Bureau for Epilepsy and the International League Against Epilepsy. Epilepsia 1994; 35: 675-684.

70. Anonymous (includes **Fisher RS**). Consensus conference on driver licensing and epilepsy: American Academy of Neurology, American Epilepsy Society, and Epilepsy Foundation of America. Washington, D.C., May 31-June 2, 1991. Proceedings. Epilepsia 1994; 35: 662-705. (I had responsibility for writing subsections)

71. Mirski MA, **Fisher RS**. Electrical stimulation of the mammillary nuclei increases seizure threshold to pentylenetetrazol in rats. Epilepsia 1994; 35: 1309-1316.

72. **Fisher RS**, Raudzens P, Nunemacher M. Efficacy of intraoperative neurophysiological monitoring. Journal of Clinical Neurophysiology 1995; 12:97-109.

73. Browne TR, Morris HH, Bourgeois B, Erenberg G, Van Ness P, Wyllie E, Rothner AD, Cruse R, Cohen BH, Ramsay RE, Katz D, Curless R, Guterman A, Curtis V, Slater J, Grosz R, Avery A, Wilder BJ, Uthman BM, **Fisher RS**, Lesser RP. Double-blind crossover comparison of Tegretol-XR and Tegretol in patients with epilepsy. The Tegretol OROS osmotic release delivery system study group, Neurology 1995;45:1703-1707.

74. Bortz JJ; Prigatano GP; Blum D; **Fisher RS**. Differential response characteristics in nonepileptic and epileptic seizure patients on a test of verbal memory and learning. Neurology 1995; 45:2029-2034.

75. Krumholz A, Sung GY, **Fisher RS**, Barry E, Bergey GK, Grattan LM. Complex partial status epilepticus accompanied by serious morbidity and mortality. Neurology 1995;

45:1499-1504.

76. **Fisher RS**, Blum D. Clobazam, oxcarbazepine, tiagabine, topiramate and other new antiepileptic drugs. Epilepsia 1995; 36 (Suppl. 2):S105-S114.

77. **Fisher RS**, Blum D, Shetter A, Archibald J, Ledin K. Ping-pong seizures. Journal of Epilepsy 1995; 8:29-32.

78. French JA, Mosier M, Walker S, Sommerville K, Sussman N and the Vigabatrin Protocol 024 Cohort (includes **Fisher RS**). A double-blind, placebo-controlled study of vigabatrin three g/day in patients with uncontrolled complex partial seizures. Neurology 1996; 46:54-61.

79. **Fisher RS**, Ehsan T, Smith K, Lawton MT, Bichard WD, Spetzler RF. Titanium aneurysm clips: part II - seizure and electroencephalographic studies in implanted rabbits. Neurosurgery 1996; 38:1165-9.

80. Krauss GL, **Fisher RS**, Plate C, Hart J, Uematsu S, Gordon B, Lesser RP. Cognitive effects of resecting basal temporal language areas. Epilepsia 1996; 37:476-483.

81. Ehsan T, **Fisher RS**, Johns D, Lukas RJ, Blum D, Eskola J. Sensitivity and specificity of paired capillary prolactin measurement in diagnosis of seizures. J Epilepsy 1996:9:101-105.

82. Smith K, **Fisher RS**. The selective GABA-B antagonist CGP-35348 blocks spike-wave bursts in the cholesterol synthesis rat absence epilepsy model. Brain Research 1996; 729:147-50.

83. Devinsky O, **Fisher RS**. Ethical use of placebos and provocative testing in diagnosis of epilepsy. Neurology 1996; 47:866-870.

84. **Fisher RS**, Eskola J, Blum D, Kerrigan JF III, Drazkowski J, M.D., Duncan B, Open - label pilot study of oxcarbazepine for inpatients under evaluation for epilepsy surgery. Drug Development Research 1996; 38:43-49.

85. Blum D; Eskola J; Bortz JJ; **Fisher RS**. Patient awareness of seizures. Neurology 1996; 47:260-264.

86. Eder HG, Jones DB, **Fisher RS**. Local perfusion of diazepam attenuates interictal and ictal events in the bicuculline model of epilepsy in rats. Epilepsia 1997; 38:516-521.

87. **Fisher RS**, Krauss GL, Ramsay E, Laxer K, Gates J. Assessment: vagus nerve stimulation for epilepsy. Neurology 1997; 49:293-297.

88. **Fisher RS**, Stein A and Kerris J. Epilepsy for the neuroradiologist. Am J Neuroradiolo-

gy 1997; 18:851-863.

89. **Fisher RS**, Krauss GL, Ramsay E, Laxer K, Gates J. Assessment of vagus nerve stimulation for epilepsy: Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology, Neurology 1997; 49:293-297.

90. Nuwer M and group (includes **Fisher RS**). Assessment of digital EEG, quantitative EEG, and EEG brain mapping: Report of the American Academy of Neurology and the American Clinical Neurophysiology Society. Neurology 1997;.49:277-292.

91. Eder HG, Stein A, **Fisher RS**. Interictal and ictal activity in the rat cobalt/pilocarpine model of epilepsy decreased by local perfusion of diazepam. Epilepsy Research 1997; 29:17-24.

92. Mirski MA, Rossell LA, Terry JB, **Fisher RS**. Anticonvulsant effect of anterior thalamic high frequency electrical stimulation in the rat. Epilepsy Research 1997;28:89-100.

93. Eder HG, **Fisher RS**. The role of gamma knife in the treatment of seizures. BNI Quarterly 1997;13:37-40.

94. Blum, DE, Ehsan T, Dungan D, Karis J, **Fisher RS**. Bilateral temporal hypometabolism in epilepsy. Epilepsia 1998;39:651-659.

95. Schachter SC, Vazquez B, **Fisher RS**, Laxer KD, Montouris GD, Combs-Cantrell DT, Faught E, Willmore LJ, Morris GL, Ojemann L, Bennett D, Mesenbrink P, D'Souza J, Kramer L. Oxcarbazepine: double-blind, randomized, placebo-control, monotherapy trial for partial seizures. Neurology 1999; 52:732-737.

96. Cramer JA, **Fisher RS**, Ben-Menachem E, French J, Mattson RH. New antiepileptic drugs: Comparison of key clinical trials. Epilepsia 1999; 40: 590-600.

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145. Fisher RS. Designing clinical trials of neuro-stimulation in epilepsy. Presented at the Eighth Eilat Conference on New Antiepileptic Drugs (EILAT VIII) in Sitges, Spain, 2006.

7. Recent Invited Presentations

3/31/00 **Panel presenter on the White House Conference on a cure for epilepsy, Bethesda, National Institutes of Health.**

5/1/00 American Academy of Neurology Course, San Diego. Epilepsy and driving.

5/22/00 **Hans Berger Award and Keynote conference lecture, by the Medical College of Virginia, Richmond: New Technologies for Treating Epilepsy.**

6/2/00 Grand Rounds in Neurology, SUNY, Brooklyn, NY.

6/8/00 **Visiting Professor, Medical College of Georgia.**

11/3/00 **American Academy of PM&R talk on Post-traumatic seizures, San Francisco.**

12/5/00 **Symposium presentation, American Epilepsy Society. Characteristics of epilepsy that determine treatment, Estimated 400 people.**

12/13/00	**Plenary talk at the Spanish Neurological Society, Symptomatic Seizures, Barcelona, Spain.**
2/2/01	**Keynote address, Western EEG Society, Reno, NV, Mechanisms of Absence Epilepsy.**
2/15/01	Talk at Cognetix, Salt Lake City, on New Medical Approaches to Epilepsy.
2/26/01	Director, Epilepsy Course at Stanford for Glaxo Smith Kline representatives.
2/28/01	Lecture on epilepsy to 2nd year Stanford Medical School class.
3/2/01	Medical student group teaching session – The Neurologic Exam, Stanford
3/9/01	Medical student lecture, Year 2 class, Stanford, Epilepsy Cases
4/7/01	Keynote "facilitator", Canadian Epilepsy Society, Banff, Canada.
4/25/01	Stanford Neurology Grand Rounds, Advances in Epilepsy Therapy
4/28/01	Presentation on Epilepsy Therapy to San Jose Neurologists, sponsored by Pfizer.
5/3/01	Preparation for Clinical Medicine lecture on epilepsy and small group discussion, Stanford Year 2 Medical students.
5/5/01	Talk for Shire Carbatrol Advisory Board, Wilmington Delaware.
5/8/01	**Lecture in American Academy of Neurology Therapy session, Course 4TP.002, entitled Epilepsy Surgery.**
10/20/01	**Antiepileptic Drug Trials IV National Symposium – lecture on "Novel drug delivery", Biscayne, Florida.**
11/9/01	University of California at San Diego Neurology Grand Rounds, New Technology for Treating Epilepsy.
2/13/02	**Visiting Professor, "Use of anti-convulsants in treatment of epilepsy". Cleveland Clinic.**
3/04/02	**Barrow Neurological Institute Symposium presentation "Potential new methods of drug delivery to the brain".**
4/15/02	**American Academy of Neurologists Annual Meeting , Faculty "Crossfire Course II – Epilepsy (3PC.004), Denver, Colorado**
5/24/02	Cleveland Clinic Brain Stimulation and Epilepsy Symposium.

6/7/02	UCLA/VA Grand Rounds talk.
9/6/02	Grand Rounds talk Cedar Sinai Medical Center, Los Angeles "New Technologies for treating epilepsy".
10/17/02	Grand Rounds talk University of Washington "New Technology for Treating Epilepsy, Seattle, Washington.
2/13/03	University of California at Davis, Neurology Grand Rounds, "New Technology for Treating Epilepsy". Davis, California
3/15/03	San Francisco Neurological Society talk, "Deep Brain & Vagal Nerve Stimulation for Control of Intractable Seizures". Berkeley, CA
3/22/03	Antiepileptic Drug Trial VII Conference, "Clinical Device Trials". Key Biscayne, Florida.
3/30/03	American Academy of Neurology Course, Honolulu, Epilepsy II, Devices for Treating Epilepsy.
4/14/03	Mapping the Brain. Talk at Stanford Neurosciences retreat, Asilomar.
4/17/03	Talk to Stanford Medical Scientist Training Program Students - How to get a job.
4/25/03	**Invited Memorial Lecture for Dr. Mary Anne Lee, Calgary, Canada.**
5/10/03	"Approach to New-Onset Epilepsy" - Talk at Medical College of Wisconsisn, Milwaukee, WI.
5/17/03	Chair Program: "Epilepsy in Women", Grand Hyatt, San Francisco, sponsored by the American Epilepsy Society and Glaxo.
5/18/03	"Epilepsy for Psychiatrists", Course for the American Psychiatric Association, Moscone Convention Center, San Francisco.
6/7/03	Talk at Stanford Biodesign Symposium: New methods for treating seizures, Stanford, CA.
9/12/03	**Merritt-Putnam International Symposium (1200 attendees), Plenary talk on Brain Stimulation for Epilepsy, Lisbon, Portugal, part of Epilepsy International.**
9/17/03	**Closing Plenary Lecture, Epilepsy International, Lisbon, Portugal: How to Publish, a View from Inside.**

12/5/03	Top Scholar Symposium for epilepsy fellows in Boston: Career Choices: Clinical Practice or Academic Medicine.
12/8/03	Presentation at special-interest group on engineering and epilepsy in Boston: Design Issues in the Clinical Trial of Brain Stimulation
12/9/03	Plenary presentation at the American Epilepsy Society national meeting in Boston: New Concepts in Absence Epilepsy.
12/22/03	Interview for KRON TV on Epilepsy
2/13/04	Grand Rounds, Alameda County Medical Center (UCSF affiliate), Epilepsy for the Primary Practitioner.
3/3/04	Neurosurgery Department Lecture, Basics of EEG
3/29/04	Lecture to Stanford ICU Service, Status Epilepticus
4/9/04	University of Kansas Neurology Grand Rounds - Mechanisms of Absence Epilepsy.
4/25/04	Crossfire II MCC304 course for the American Academy of Neurology - San Francisco, 125 physician attendees.
4/26/04	Presentation to the Association of California Neurologists on Drving Regulations, Westin Hotel, San Francisco.
5/13/04	Lecture to Preparation for Clinical Medicine Stanford Medical Students, on Epilepsy
5/15/04	Conference talk at University of California at Davis - Nonresective strategies in treating patients with epilepsy.
5/28/04	**Keynote address at the European Brain Stimulation Group meeting in Brussels**
5/19/04	Lecture to Biodesign Fellows, Stanford, Clark Center
7/10/04	Epilepsy Foundation conference for Nevada Neuroscience Institute Conference, speak at Las Vegas Sunrise Hospital - What's New in Epilepsy Research.
7/17/04	**Keynote Speaker, Epilepsy Foundation of Greater LA - Next Generation of Therapy for Epilepsy**
8/31/04	Lecture at Workshop on Photosensitivity by the Epilepsy Foundation of America, "Epidemiology of Photosensitivity," Washington, D.C.

9/20/04	Biodesign Course Lecture on Epilepsy, Stanford Clark Center
9/24/04	Stanford Neurology Grand Rounds, "Open Your Eyes to the Problem of Photosensitive Seizures"
10/16/04	Speaker, Consumer Conference, Epilepsy Symposium of Northern California, UC San Francisco, "What's New in Epilepsy Research?"
10/19/04	**Plenary Speaker, Congress of Neurological Surgeons, Neurostimulation, Moscone Center Ballroom, San Francisco**
10/21/2004	Stanford Department of Medicine Grand Rounds, Status Epilepticus
10/30/04	Talk for Stanford Continuing Studies: Epilepsy, a Spotlight on the Brain, Cubberly Auditorium, Stanford University
12/3/04	Platform Symposium talk, Photosensitivity, American Epilepsy Society, New Orleans.
11/13/04	**Plenary Debate on "Current State of Epilepsy Research in America" for the Epilepsy Society of Los Angeles, in LA, California.**
12/4/04	Focal Cooling of the Brain – American Epilepsy Society Mini-Fellows Symposium, New Orleans.
12/17/04	Stanford Neurology Grand Rounds – Brain Stimulation for Epilepsy.
3/12/05	**Plenary Lecturer at the Taiwan Neurological Society – New Concepts in Absence Epilepsy, Taipei, Taiwan.**
5/3/05	Mani speaker at the Greater Boston Epilepsy Society - Mechanisms of Absence Epilepsy.
5/8/05	Stanford Asilomar neuroscience conference. My lecture on "What the Neurologist wants to know from the basic scientist."
8/29/05	**Epilepsy International, Paris, France. Plenary talk, "Understanding drug resistance." (for about 1500 attendees).**
8/31/05	Epilepsy International, Paris, France, Reproductive function in males with epilepsy, talk for 150 attendees.
9/17/05	Epilepsy Foundation of Northern California Consumer Conference (118 attendees), Cognitive problems from seizure medications.
9/19/05	Cedar-Sinai Hospital, Los Angeles. Invited Grand Rounds, "Will there be a magic bullet for epilepsy?"

9/29/05	Lecture #1 to Neurosciences Stanford nurses on Epilepsy 101.
9/30/05	Dinner talk for San Francisco Neurologists, "New devices for epilepsy."
10/4/05	Dinner talk for UCLA Residents and Fellows - "How to get published."
10/5/05	**UCLA Grand Rounds, Basic mechansisms of absence epilepsy.**
10/6/05	Lecture #2 to Neurosciences Stanford nurses on Epilepsy 101.
10/22/05	Epilepsy Foundation talk, Cathedral Hill, San Francisco, "Driving and Epilepsy."
10/27/05	**Univ Maryland, Grand rounds, Baltimore, New Concepts in absence epilepsy**
10/28/05	**Johns Hopkins Grand Rounds, Photosensitive seizures.**
11/18/05	Stanford Neurology Grand Rounds - New methods for AED drug delivery.
12/4/05	American Epilepsy Society lecture, Washington DC, Update on brain stimulation.
2/16/06	Talk Stanford Developmental Neuroscience Group - Brain Stimulation for Epilepsy
3/3/06	American Society for Clinical Neurophysiology Plenary talk at the National Meeting in New Orleans. New Technology for Treating Epilepsy.
3/31/06	3rd Annual Update in Adult Medicine Stanford - Community Physician talk on Epilepsy.
4/3/03	**Plenary Course Lecture on Photosensitive and Reflex Seizures. 3PC.004, American Academy of Neurology, San Diego.**
4/12/06	I lead journal club for Stanford Neuroscience Scholarly concentration students. Aspartame and Epilepsy. A case-study in interpreting medical evidence.
5/11/06	Seizures in the ICU - Talk for Stanford Critical Care Department.
6/19/06	**Grand Rounds, University of Hawaii, Department of Neurology, Honolulu. New Therapies for epilepsy.**
8/17/06	**Grand Rounds, University of Melbourne (Austin), Australia, Absence Epilepsy.**
8/18/06	**Visiting Guest Chair, University of Melbourne Epilepsy Center Annual Retreat.**
8/19/06	**Teach Epilepsy "Master Class" Sydney, Australia**

8/30/06 Grand Rounds, Neurology, Stanford. Absence Epilepsy: Clinical and Basic Research Aspects.

10/14/06 **Designing clinical trials of neuro-stimulation in epilepsy. Presented at the Eighth Eilat Conference on New Antiepileptic Drugs (EILAT VIII) in Sitges, Spain, 2006.**

Above are 323 presentations

PENDING

10/23/06 **Mayo Clinic, Rochester, MN. Visiting Professor and Grand Rounds speaker, New Concepts in Absence Epilepsy**

12/01/06 Plenary talk at theA merican Epilepsy Society Allied Healthworkers Annual Meeting: New treatments for epilepsy

Past Trainees

Name of Trainee	Pre or Post Doctoral*	Degree/Year	Degree Institution	Date when trained with you	Title of research project with you	Current position (institution, job title) or source of support
John Bernstein, M.D.	Post		Johns Hopkins	1984-1985	N-aspartyl-glutamate	Practice
Jarlath ffrench-Mullen, Ph.D.	Post		Johns Hopkins	1984-1985	Co-transmitters of glutamte	Scientist for ICN Pharma
Alison Cole, Ph.D.	Post		Johns Hopkins	1984-1986	Glutamate desensitization	NIH grants officer
Greg Krauss, M.D.	Post		Johns Hopkins	1985-1986	magnesium in animal models of epilepsy	Assoc Prof Neurol, Johns Hopkins
John Aryanpur, M.D.	Post		Johns Hopkins	1986-1987	dextromethorphan as an NMDA antagonist	Neurosurgery Practice, California
Brian Litt, M.D.	Post		Johns Hopkins	1986-1987	Error measures in MEG dipole localization	Assist Prof Neurol, U Penn
Santiago Arroyo, M.D.	Post		Johns Hopkins	1988-1990	gelastic seizures	Assoc Prof Neurol, U. Wisconsin
Marek Mirski, M.D., Ph.D.	Post		Johns Hopkins	1988-1990	hypothalamic and thalamic stimulation in rat models of epilepsy	Chief, Neuro-ICU, John Hopkins
Lisa Rossell, D.O.	Pre		Johns Hopkins	1988-1990	latency in cobalt-induced epilepsy	Medical School
Joseph Drazkowski, M.D.	Post		Barrow Neurological Institute	1992-1993	driving regulations and epilepsy	Faculty, Mayo Clinic, Scottsdale
Kris Smith, M.D.	Post		Barrow Neurological Institute	1992-1994	GABA-B antagonists for an atypical absence model	Faculty, Barrow Neurological Institute
Donald Johns, M.D.	Post		Barrow Neurological Institute	1993-1994	Prolactin for epilepsy	Chief of Epilepsy, Sunrise Hospital, Las Vegas
Hans Eder, M.D.	Post		Barrow Neurological Institute	1995-1997	Application of drugs to the seizure focus	Assoc Prof Neurosurgery, U. Gratz, Austria
Alan Stein, M.D.	Post		Barrow Neurologica	1997-1999	Automatic drug application to a	Director, Hawaii Epilepsy Center

			l Institute		seizure focus	
John Kerrigan, III, M.D.	Post		Barrow Neurological Institute	1993-1994	Pilot trial of brain stimulation	Chief, Peds Epilepsy, BNI
Taj Ehsan, M.D.	Post		Barrow Neurological Institute	1994-1996	Paired capillary prolactins for diagnosis of seizures	Assoc Prof, U of Louisiana, Shreveport
Joseph Connolly, D.O.	Post		Barrow Neurological Institute	1996-1997	Pilot trial of oxcarbamazepine	Practice, Northern Washington
Allan Block, M.D.	Post		Barrow Neurological Institute	1997-1998	Patient awareness of seizures	Practice, Scottsdale, Arizona
Louis Moss, M.D.	Post		Barrow Neurological Institute	1998-1999	Efficacy of video-EEG monitoring	Deceased
Jie Wu, M.D., Ph.D.	Post		Barrow Neurological Institute	1998-2000	Mechanisms of hyperthermic seizures	Sensior Scientist, Barrow Neurological Institute
Lori Uber-Zak, D.O.	Post		Barrow Neurological Institute	1999-2000	Salivary AEDs as a measure of compliance	Assist Prof, Loma Linda Univ, CA
Sucheta Joshi, M.D.	Post		Stanford	2000-2002	Holoprosencephaly and seizures	Clinical Assist Prof, U Mich
Susan Greenawald, M.D.	Post		Stanford	2000-2001	clinical training	Practice, Sacramento, CA
Kamala Rodrigues, M.D.	Post		Stanford	2001-2002	Impact of required reporting of seizures by physicians	Clinical Assist Prof, U Mich
David Anschel, MD	Post		Stanford	2002-2004	Diazepam and adenosine as topical AEDs	Senior Epilepsy Fellow, Stanford
Roshan Raja, DO	Post		Stanford	2002-2003	Clinical Training	Pediatric Epilepsy, Calif Pacific Med Center
Xiao-Lie Zhang	Post		Stanford	2002-2004	The cholesterol synthesis inhibitor model of epilepsy	Research Associate, Stanford
Robert Wechsler, M.D., Ph.D.	Post		Stanford	2003-2005	Predictors of effective therapy for non-epileptic seizures	Epilepsy Fellow, Stanford
Joseph Oommen, M.D.	Post		Stanford	2004-2006	Epilepsy Drugs Delivered by CSF	Epilepsy Fellow, Stanford
HuFang Li, Ph.D.	Post		Stanford	2004-2007	Thalamic circuitry in acquired absence epilepsy	Postdoc / Research Associate
David Chen,	Post		Stanford	2005-	Diffusion Tensor	Epilepsy Fellow

M.D.				2007	Imaging in Epilepsy	
Christopher Anderson, M.D.	Post		Stanford	2006-2008	Seizure Detection Algorithms	Epilepsy Fellow