

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME John W Griffin	POSITION TITLE Professor
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Education/Training (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR (s)	FIELD OF STUDY
Grinnell College, Grinnell, Iowa	B.A.	1963	Chemistry and Zoology
Stanford Univ. School of Medicine, Stanford, CA	M.D.	1968	Medicine
Stanford Univ. School of Medicine, Stanford, CA		1968-1970	Internship & Residency
Johns Hopkins Univ. Sch. of Medicine, Balto., MD		1970-1973	Resident, Neurology
NINCDS, Bethesda, MD		1973-1975	Clinical Associate

Professional Experience

- 1975-79 Assistant Professor, Dept. Neurology, Johns Hopkins University School of Medicine, Baltimore, MD
 1979-86 Associate Professor, Dept. Neurology, Johns Hopkins University School of Medicine, Baltimore, MD
 1983-86 Associate Professor, Dept. Neuroscience, Johns Hopkins Univ. School of Medicine, Baltimore, MD
 1986- Professor, Depts. of Neurology & Neuroscience, Johns Hopkins Univ., Sch. of Medicine, Baltimore, MD
 1988-97 Associate Director, Department of Neurology, Johns Hopkins Univ., Sch. of Medicine, Baltimore, MD
 1997-98 Interim Director, Department of Neurology, Johns Hopkins Univ., Sch. of Medicine, Baltimore, MD
 1998- Director, Department of Neurology, Johns Hopkins Univ., Sch. of Medicine, Baltimore, MD
 1999- Professor, Department of Pathology, Johns Hopkins Univ. Sch. of Medicine, Baltimore, MD

Academic Honors and Special Activities

- 1963 Phi Beta Kappa; 1968 Alpha Omega Alpha
 1987 Jacob K. Javits Award, NINCDS
 1987 Professors Award for Teaching, Johns Hopkins University School of Medicine
 1989 Interurban Clinical Club
 1992 Editor, Peripheral Neuropathy, Vol.3, eds. Dyck, PJ, Thomas, PK, Griffin, JW, Low, P, Poduslo, J
 1993-95 President, Society for Experimental Neuropathology
 1993-95 Chairman, Scientific Review Committee of ALS Association
 1994-97 Medical Advisory Board, Muscular Dystrophy Association
 1996 Robert Wartenberg Lecture, American Academy of Neurology, San Francisco, California
 1996-97 Second Vice President, American Neurological Association
 1997-98 First Vice President, American Neurological Association
 1997-99 President, Peripheral Nerve Society
 1997 Joseph St. Geme Lecture, Univ. of Colorado School of Medicine, Denver, Colorado, January, 1997
 1997 Soriano Lecture, American Neurological Association
 1998 Keynote Lecture, Charcot-Marie-Tooth Association meeting, Chanticleer, Quebec, Canada
 1999 Dean's Lecture, A Guillain Barre Syndrome: Lessons from the Developing World@, Johns Hopkins University School of Medicine
 1999- Council, National Advisory Neurological Disorders and Stroke
 2000- Translational Research Advisory Committee, Burroughs Wellcome Foundation (Chair 2003-04)
 2001-03 President Elect, American Neurological Association
 2002 David Seegal Alpha Omega Alpha Visiting Professor, Columbia University School of Medicine
 2002- Co-Chair, Scientific Committee, American Academy of Neurology
 2002 Plenary Lecture, "Painful Peripheral Neuropathies and C Fiber Nociceptors", International Association of Study of Pain World Congress, San Diego, California
 2003 President, American Neurological Association

Bibliography (Selected from 233 full-length refereed publications and 79 reviews/chapters)

- Griffin JW, Li CY, Ho TW, Tian M, Gao CY, Xue P, Mishu B, Cornblath DR, Macko C, McKhann GM, Asbury AK. Pathology of the motor-sensory axonal Guillain-Barré syndrome. *Ann Neurol* 1996;39:17-29
- Griffin JW, Li CY, Macko C, Ho TW, Hsieh S-T, Xue P, Wang FA, Cornblath DR, McKhann GM, Asbury AK. Early nodal changes in the acute motor axonal neuropathy pattern of the Guillain-Barré syndrome. *J Neurocytol* 1996;25:33-51
- Hafer-Macko CE, Sheikh KA, Li CY, Ho TW, Cornblath DR, McKhann GM, Asbury AK, Griffin JW. Immune attack on the Schwann cell surface in acute inflammatory demyelinating polyneuropathy. *Ann Neurol* 1996;39:625-635
- Hsieh S-T, Choi S, Lin W-M, Chang Y-C, McArthur JC, Griffin JW. Epidermal denervation and its effects on keratinocytes and Langerhans cells. *J Neurocytol* 1996;25:513-524
- Xu Z, Marszalek JR, Lee MK, Wong PC, Folmer J, Crawford TO, Hsieh S-T, Griffin JW, Cleveland DW. Subunit composition of neurofilaments specifies axonal diameter. *J Cell Biol* 1996;133:1061-1069
- Holland NR, Stocks EA, Hauer P, Cornblath DR, Griffin JW, McArthur JC. Intraepidermal nerve fiber density in patients with painful sensory neuropathy. *Neurology* 1997;48:708-711.
- Li YB, Hsieh S-T, Chien F-H, Zhang X, McArthur JC, Griffin JW. Sensory and motor denervation influence epidermal thickness in rat foot glabrous skin. *Exp Neurol*, 1997; 147:452-462.
- Ho TW, McKhann GM, Griffin JW. Human Autoimmune Neuropathies. *Annu.Rev. Neurosci* 1998;21:187-226.
- Holland NR, Crawford TO, Hauer P, Cornblath DR, Griffin JW, McArthur JC. Small-fiber sensory neuropathies: clinical course and neuropathology of idiopathic cases. *Ann. Neurol.* 1998;44(1):47-59.
- Yin X, Crawford TO, Griffin JW, Tu Ph, Lee VM, Li C, Roder J, Trapp BD. Myelin-associated glycoprotein is a myelin signal that modulates the caliber of myelinated axons. *J Neurosci.* 1998; 18(6):1953-1962.
- McArthur JC, Stocks EA, Hauer P, Cornblath DR, Griffin JW. Epidermal nerve fiber density: normative reference range and diagnostic efficiency. *Arch Neurol.* 1998;55(12):1513-1520.
- Sheikh KA, Deerinck TJ, Ellisman MH, Griffin JW. The distribution of ganglioside-like moieties in peripheral nerves. *Brain.* 1999;122:449-460.
- Tsao, J.W., George, E.B., Griffin, J.W. Temperature modulation reveals three distinct stages of Wallerian degeneration. *J. Neuroscience.* 1999; 19:4718-4726.
- Herrmann DN, Griffin JW, Hauer P, Cornblath DR, McArthur JC. Epidermal nerve fiber density and sural nerve morphometry in peripheral neuropathies. *Neurology.* 1999 Nov 10;53(8):1634-40.
- Polydefkis M, Allen RP, Hauer P, Earley CJ, Griffin JW, McArthur JC. Subclinical sensory neuropathy in late-onset restless legs syndrome. *Neurology.* 2000 Oct 24; 55(8):1115-21.
- Wu G, Ringkamp M, Hartke TV, Murinson BB, Campbell JN, Griffin JW, Meyer RA. Early onset of spontaneous activity in uninjured C-fiber nociceptors after injury to neighboring nerve fibers. *J.Neurosci.* 2001 Apr; 21 (8):RC140 1-5.
- Sheth RN, Dorsi MJ, Li Y, Murinson BB, Belzberg AJ, Griffin JW, Meyer RA. Mechanical hyperalgesia after an L5 ventral rhizotomy or an L5 ganglionectomy in the rat. *Pain.* 2002 Mar; 96 (1-2): 63-72
- Wu G, Ringkamp M, Murinson BB, Pogatzki EM, Hartke TV, Weerahandi HM, Campbell JN, Griffin JW, Meyer RA. Degeneration of myelinated efferent fibers induces spontaneous activity in uninjured C-fiber afferents. *J Neurosci.* 2002 Sept; 22 (17):7746-7753.
- Gong Y, Tagawa Y, Lunn MP, Laroy W, Heffer-Lauc M, Li CY, Griffin JW, Schnaar RL, Sheikh KA. Localization of major gangliosides in the PNS: implications for immune neuropathies. *Brain.* 2002,Nov; 125(PT11):2491-2506.
- Keswani SC, Chander B, Hasan C, Griffin JW, McArthur JC, Hoke A. FK506 is neuroprotective in a model of antiretroviral toxic neuropathy. *Ann.Neurol.* 2003,Jan; 53(1):57-64.
- Sumner CJ, Sheth S, Griffin JW, Cornblath DR, Polydefkis M. The spectrum of neuropathy in diabetes and impaired glucose tolerance. *Neurology.* 2003,Jan14; 60(1):108-111.
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- Chaudhry V, Chaudhry M, Crawford TO, Simmons-O'Brien E, Griffin JW. Toxic neuropathy in patients with pre-existing neuropathy. *Neurology.* 2003 Jan 28;60(2):337-40.
- Rajan B, Polydefkis M, Hauer P, Griffin JW, McArthur JC. Epidermal reinnervation after intracutaneous axotomy in man. *J Comp Neurol.* 2003 Feb 24;457(1):24-36.

RESEARCH PROJECTS ONGOING OR COMPLETED DURING THE LAST 3 YEARS:

Ongoing:

1 RO1 NS041269-01 (John W. Griffin) 04/01/01-03/31/06

National Institutes of Health

Remak Bundle Structure and Function in Neuropathic Pain

This project is examining the effect of degeneration of neighboring nerve fibers on C-fiber structure and spontaneous electrical activity.

Completed:

1 RO1 NS34846 (John W. Griffin) 02/01/96-01/31/00

National Institutes of Health

Pathogenesis of the Guillain-Barré Syndrome: The major goals of this project are: 1) To reconstruct the pathophysiologic sequence of the axonal forms of GBS, including a) acute motor axonal neuropathy (AMAN) and b) acute motor-sensory axonal polyneuropathy (AMSAN). 2) To reconstruct the pathophysiology of the acute demyelinating neuropathy (ADP) pattern of GBS. 3) To determine the role of antecedent *Campylobacter jejuni* in the different patterns of GBS. 4) To transfer passively the axonal and demyelinating patterns of GBS to experimental.

1 RO1 NS37428-01 (John W. Griffin) 03/01/99-02/28/02

National Institutes of Health

Macrophage Recruitment in Nervous System Injury and Repair

This project will examine the roles of chemokines in injury and repair of the PNS

1 RO1 NS31528 (Guy M. McKhann) 07/01/96-06/30/02

National Institutes of Health

Chinese Paralytic Syndrome: Mechanisms and Relevance

The major goals of this project are: To characterize the clinical, electrodiagnostic, and pathologic features and disease mechanisms of this syndrome. Establish whether GBS differs from other causes of acute-onset flaccid paralysis.