

CURRICULUM VITAE

Name **GREG ERWIN LEMKE**
Date of Birth December 31, 1955
Place of Birth Delphos, Ohio
Citizenship United States



EDUCATION

1974-1978 Massachusetts Institute of Technology (MIT; Undergraduate)
1978-1983 California Institute of Technology (Caltech; Graduate)
Graduate advisor: Jeremy Brockes
1983-1985 College of Physicians and Surgeons, Columbia University (Postdoctoral)
Postdoctoral advisor: Richard Axel

SCHOLASTIC HONORS

1974-1978 National Merit Scholarship
1978 S.B. in Life Sciences, MIT
1983 Ph.D. in Biology, Caltech

PROFESSIONAL APPOINTMENTS

1985 - 1991 Assistant Professor,
1991 - 1995 Associate Professor,
1995 - Professor and Director, Molecular Neurobiology Laboratory,
2012 - Françoise Gilot-Salk Professor, Salk Institute for Biological Studies, La
Jolla, California
2014 - Director, Immunobiology and Microbial Pathogenesis Laboratory
2002 - 2003 Chair of the Faculty, Salk Institute
2009 - 2010
2014 - 2015
1986 - 1991 Adjunct Assistant Professor,
1991 - 1995 Adjunct Associate Professor,
1996 - Adjunct Professor, Department of Neuroscience, School of Medicine,
University of California, San Diego, La Jolla, California

AWARDS

1979 - 1981 Kroc Foundation Graduate Fellowship
1983 - 1985 Muscular Dystrophy Association Postdoctoral Fellowship
1986 - 1990 Pew Scholars Award, Pew Memorial Trust
1987 - 1989 Basil O'Connor Starter Scholar Award, March of Dimes

- 1990 - 1995 Rita Allen Scholars Award, Rita Allen Foundation
1994 - 2001 Javits Neuroscience Investigator (Merit) Award, NIH
2007 - Fellow, American Association for the Advancement of Science

PROFESSIONAL SERVICE

- 1989 - 95 Associate Editor, *Neuron*,
Journal of Neuroscience,
Glia
1995 - 2005 Editor-in-Chief, *Molecular and Cellular Neuroscience*
2005 - 2010 Associate Editor, *Molecular and Cellular Neuroscience*
1989 - 2010 Ad Hoc Member, Multiple NIH Study Sections
1992 - 1996 Regular Member, NIH Neurology C Study Section
1991 - 1996 Member, Research Advisory Board, Natl. Neurofibromatosis Foundation
1994 - 2006 Member, Scientific Advisory Board, Hereditary Disease Foundation
1999 - 2000 Chair, Brain Molecular Anatomy Project Advisory Panel, NIH
2000 - 2006 Member, Scientific Advisory Board, deCODE Genetics
2003 - 2008 Advisor, Helmholtz Gemeinschaft
2007 - 2013 Member, National Advisory Committee, Pew Scholars Program
2007 - Chair, Science Advisory Board, Dept. of Biomedicine, University of Basel
2015 - Member, Scientific Advisory Board, Kolltan Pharmaceuticals

PROFESSIONAL MEMBERSHIPS

- 1980 - Society for Neuroscience
1986 - American Association for the Advancement of Science
2011 - American Association of Immunologists

TEACHING EXPERIENCE

- 1987 - Lectures in Molecular and Cellular Neurobiology, and Neuroanatomy
UCSD Neuroscience graduate series
1989 - Course director (with B. Ranscht and D. O'Leary)
Developmental Neurobiology, UCSD Neuroscience core course
1993 - 1995 Course director (with D. O'Leary)
Developmental Neurobiology, Cold Spring Harbor summer course

PUBLICATIONS

- Brockes, J.P., Lemke, G.E., and Balzer, D.R., Jr. (1980) Purification and preliminary characterization of a glial growth factor from the bovine pituitary. *J. Biol. Chem.* 255:8374-8377.
- Lemke, G. and Brockes, J.P. (1981) An immunochemical approach to the purification and characterization of glial growth factor. In *Monoclonal Antibodies to Neural Antigens* (Cold Spring Harbor Reports in the Neurosciences, V.2, eds. R. McKay, M.C. Raff, and L. Reichardt), pp. 133-140.
- Brockes, J.P. and Lemke, G.E. (1981) The neuron as a source of mitogen. In *Development in the Nervous System* (eds. D.R. Garrod and J.D. Feldman) Cambridge University Press, pp. 309-327.
- Brockes, J.P., Fryxell, K., and Lemke, G.E. (1981) Studies on cultured Schwann cells. *J. Exp. Biol.* 95: 215-230.
- Lemke, G.E. and Brockes, J.P. (1983) Glial growth factor: a mitogenic polypeptide of the brain and pituitary. *Fed. Proc.* 42: 2627-2630.
- Lemke, G.E. and Brockes, J.P. (1984) Identification and purification of glial growth factor. *J. Neurosci.* 4: 75-83.
- Kintner, C.R., Lemke, G.E. and Brockes, J.P. (1984) Glial growth factor and the neuronal control of cell division in amphibian limb regeneration. In *Molecular Bases of Neural Development*. pp. 119-138.
- Lemke, G. and Axel, R. (1985) Isolation and sequence of a cDNA encoding the major structural protein of peripheral myelin. *Cell* 40: 501-508.
- Lemke, G. (1986) Molecular biology of the major myelin genes. *Trends in Neurosciences* 9:266-270.
- Lemke, G. (1987) Molecular biology of the genes encoding the major myelin proteins. In *Molecular Neurobiology*, (eds. S. Heinemann and J. Patrick), pp. 21-43.
- Webster, H.deF., Lamperth, L., Favilla, J.T., Lemke, G., Tesin, D. and Manuelidis, L. (1987) Use of a biotinylated probe and *in situ* hybridization for light and electron microscopic localization of P₀ mRNA in myelin-forming Schwann cells. *Histochemistry* 86: 441-444.
- Lemke, G. and Chao, M. (1988) Axons regulate Schwann cell expression of the major myelin and NGF receptor genes. *Development* 102: 499-504.

- Lemke, G., Lamar, E. and Patterson, J. (1988) Isolation and analysis of the gene encoding peripheral myelin protein zero. *Neuron* 1: 73-83.
- Trapp, B.D., Hauer, P. and Lemke, G. (1988) Axonal regulation of myelin protein mRNA levels in actively myelinating Schwann cells. *J. Neurosci.* 8: 3515-3521.
- Lemke, G. (1988) Unwrapping the genes of myelin. *Neuron* 1: 535-543.
- Monuki, E.S., Weinmaster, G., Kuhn, R. and Lemke, G. (1989) SCIP: a glial POU domain gene regulated by cAMP. *Neuron* 3:783-793.
- Kuhn, R., Pravtcheva, D., Ruddle, F. and Lemke, G. (1990) The gene encoding peripheral myelin protein zero is located on mouse chromosome 1. *J. Neurosci.* 10:205-209.
- Lemke, G., Weinmaster, G. and Monuki, E.S. (1990) The myelination cascade. In *Cellular and Molecular Biology of Myelination* (G. Jeserich, H.H. Althaus, T.V. Waehneltd, eds.) NATO ASI series, Springer-Verlag, Berlin, pp. 533-541.
- Weinmaster, G. and Lemke, G. (1990) Cell-specific cyclic AMP-mediated induction of the PDGF receptor. *EMBO J.* 9: 915-920.
- Lemke, G., Kuhn, R., Monuki, E.S. and Weinmaster, G. (1990) Transcriptional controls underlying Schwann cell differentiation and myelination. *Proc. N.Y. Acad. Sci.* 605: 248-253.
- Lemke, G. (1990) Glial growth factors. *Seminars in Neuroscience* 2: 437-443.
- Monuki, E.S., Kuhn, R., Weinmaster, G., Trapp, B.D. and Lemke, G. (1990) Expression and activity of the POU transcription factor SCIP. *Science* 249: 1300-1303.
- Lemke, G. (1990) Mitogen signal. *Nature* 348: 201.
- Lemke, G. Kuhn, R., Monuki, E.S., and Weinmaster, G. (1991) Expression and activity of the transcription factor SCIP during glial differentiation and myelination. *Proc. N.Y. Acad. Sci.* 633: 189-195.
- Lai, C. and Lemke, G. (1991) An extended family of protein-tyrosine kinase genes differentially expressed in the vertebrate nervous system. *Neuron* 6: 691-704.
- Weinmaster, G., Roberts, V.J., and Lemke, G. (1991) A homolog of *Drosophila Notch* expressed during mammalian development. *Development* 113: 199-206.

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- Hall, Z., Anderson, D., Banker, G., Breakefield, X., Kennedy, M., Lemke, G., Patterson, P., Ross, E., Sargent, P., Scheller, R., Vale, R. (1992) Chap. 9: Myelin and myelination, and Chap. 10: Gene regulation in the nervous system. In: *An Introduction to Molecular Neurobiology*, Sinauer Associates, Sunderland, MA.
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- Monuki, E.S., Kuhn, R., and Lemke, G. (1993) Repression of the myelin P₀ gene by the POU transcription factor SCIP. *Mechanisms of Development* 42: 15-32.
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- Messing, A., Behringer, R.R., Wrabetz, L., Hammang, J.P., Lemke, G., Palmiter, R.D., and Brinster, R.L. (1994) Hypomyelinating peripheral neuropathies and Schwannomas in transgenic mice expressing SV40 T-antigen. *J. Neurosci.* 14: 3533-3539.
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- Zhao, J.J. and Lemke, G. (1998) Selective disruption of neuregulin-1 function in vertebrate embryos using ribozyme-tRNA transgenes. *Development* 125: 1899-1907.
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- Zorick, T. S., Syroid, D.E., Brown, A., Gridley, T. and Lemke, G. (1999) Krox-20 controls SCIP expression, cell cycle exit, and susceptibility to apoptosis in developing myelinating Schwann cells. *Development* 126: 1397-1406.
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68-74.

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