

CURRICULUM VITAE

OSCAR UMBERTO SCREMIN, M.D., Ph.D.

<u>Education</u>	<u>Degree</u>	<u>Year</u>	<u>Field</u>
Universidad del Litoral, Argentina	M.D.	1963	Medicine & Surgery
University of Aberdeen, UK	Research Fellowship	1966	Physiology
Universidad de Rosario, Argentina	Ph.D.	1968	Physiology

Awards

- 1966 Research Fellowship, British Council.
- 1968 Established Investigatorship, Argentine National Research Council.
- 1978 Senior Investigatorship, American Heart Association, Greater Los Angeles Affiliate.
- 2001 VA RR&D Senior Research Career Scientist.

Present and previous appointments

- 2007-pres. Visiting Professor, Facultad de Ciencias Medicas, Universidad Nacional de Rosario, Argentina.
- 2001-pres. VA RR&D Senior Research Career Scientist, VA GLA Healthcare System, Los Angeles.
- 1991-pres. Professor, Department of Physiology. UCLA School of Medicine. Los Angeles.
- 1992-pres. Research Director, Department of Physical Medicine and Rehabilitation, West Los Angeles VA Medical Center.
- 1991-2001. Research Scientist, Research Service, Department of Veterans Affairs Medical Center, West Los Angeles.

- 1982-pres. Affiliated Investigator. CURE (Center for Ulcer Research and Education, UCLA and Veterans Administration Medical Center, Wadsworth).
- 1984-1991. Research Physiologist, Veterans Administration Medical Center, Albuquerque, NM.
- 1984-1991. Adjunct Research Associate Professor, Department of Neurology, University of New Mexico.
- 1978-89 Adjunct Associate Professor of Physiology, UCLA Medical School.
- 1976-78 Associate Research Physiologist, UCLA Department of Physiology.
- 1973-75 Dean, Medical School, University of Rosario, Argentina.
- 1968-76 Career Investigator, Argentine National Research Council.
- 1968-75 Associate Professor, Department of Physiology, University of Rosario, Argentina.
- 1966-68 Research Fellow, Department of Physiology, Marischal College, University of Aberdeen, Great Britain.
- 1963-66 Intern, Department of Neurology and Neurosurgery, Hospital Freyre, Argentina.

Membership in Scientific Societies

American Physiological Society
Society for Neuroscience

Editorial service for the following Journals:

AMERICAN JOURNAL OF PHYSIOLOGY
ANNALS OF NEUROLOGY
BIOCHEMICAL PHARMACOLOGY
BRAIN RESEARCH
BRAIN RESEARCH BULLETIN
DIGESTIVE DISEASES AND SCIENCES
GASTROENTEROLOGY
JOURNAL OF CLINICAL INVESTIGATION
JOURNAL OF GERONTOLOGY
JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM
JOURNAL OF NEUROCHEMISTRY
JOURNAL OF NEUROSCIENCE RESEARCH
JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT

LIFE SCIENCES (Guest Editor)
NEUROIMAGE
NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR
PHYSIOLOGY AND BEHAVIOR
PSYCHLINE (Section Editor for Neurophysiology)
SCIENCE
STROKE

Teaching Experience:

- 1998-pres. Cardiovascular Physiology for graduate (PS C237) and undergraduate (PS C137) students (Spring). UCLA. Advanced study (37 lecture hours, research presentations and a term paper) in cardiovascular physiology for Physiological Science graduate students and undergraduate seniors. Average enrollment= 30.
- 1991-pres. Physiology 201 Course (Winter). Human Physiology for UCLA School of Medicine students (average enrollment= 160). 24 laboratory hrs on instrumented animals (cats) for recording of arterial and venous blood pressures, EKG, and aortic blood flow with experiments on cardiovascular physiology and pharmacology. 16 laboratory hours on computer simulation of hemodynamics.
- 1991-pres. Neuromuscular Physiology Course (Spring). Neuromuscular physiology for resident physicians of the UCLA-VA Multicampus Program in Physical Medicine and Rehabilitation (average enrollment= 24). Course Chairperson and lecturer. 6 lecture hours on membrane properties, action potentials, and neuromuscular transmission. 4 laboratory hours on action potentials in isolated nerves and volume conduction.
- 1991-1997. Physiology 100 Course (Fall). Human Physiology for UCLA School of Dentistry and School of Nursing students (average enrollment= 120). 10 Lecture hours on the cardiovascular system and 12 laboratory hours on computer simulation of hemodynamics and arterial blood pressure regulation on human subjects.
- 1984-1991 Medical School Research Program. University of New Mexico School of Medicine, Albuquerque NM. A summer program to initiate medical students in research (1 student/year on a lab assignment).
- 1984-1991 Annual Lecture Series, Department of Physiology, University of New Mexico, Albuquerque, NM.

- 1981-1992 Research fellows program. Preceptorship and laboratory projects design for UCLA Department of Medicine fellow physicians. (1 to 2 fellows/year).
- 1977-1983 Physiology 101. Human Physiology for UCLA School of Medicine students (average enrollment= 150). 6 lecture hours on cardiovascular physiology and 24 laboratory hours instrumented animals (cats) for recording of arterial and venous blood pressures, EKG, and aortic blood flow with experiments on cardiovascular physiology and pharmacology.
- 1981 Physiology 100 Course (Fall). Human Physiology for School of Dentistry and School of Nursing students (average enrollment= 120). 10 Lecture hours on the cardiovascular system and 12 laboratory hours on computer simulation of hemodynamics and arterial blood pressure regulation on human subjects.
- 1979-83 UCLA Neuroscience Curriculum (average enrollment = 25). 4 lecture hours on homeostasis in the Central Nervous System, and 8 laboratory hours on brain electrical activity, cerebral blood flow and CNS control of the circulation.
- 1968-75 Neurophysiology Course, Department of Physiology, University of Rosario, Argentina (average enrollment= 400). 18 lectures and 60 laboratory hours on physiology of the central and peripheral nervous system.
- 1962-63 Lecturer, Department of Biology, University of Litoral, Argentina. A full year course. Cellular biology for medical students (average enrollment= 800). Lectures and colloquial instruction.
- 1960-61 Teaching Assistant, Department of Biophysics, University of Litoral, Argentina.
- 1959-60 Teaching Assistant, Department of Physiology, University of Litoral, Argentina.
- 1957-59 Teaching Assistant, Department of Anatomy, University of Litoral,

PUBLICATIONS (peer reviewed):

Holschneider DP, **Scremin OU**, Chialvo DR Kay BP , Maarek J-M
 Flattened Cortical Maps of Cerebral Function in the Rat: A Region-of-Interest Approach to Data Sampling, Analysis and Display. Neuroscience Letters 2008 (in press) doi:10.1016/j.neulet.2008.01.

Aragaki DR, Huang M-N, Chen P, Yeung P, Kunkel C, Opava-Rutter D, Scremin AME and **Scremin OU**. Laser Doppler Imaging Assessment of Microvascular Function in Normal and Ischemic Lower Limbs, Fed. Pract. 2008 (in press).

Kunkel CF, Figoni SF, Baumgarten JM, Carvalho CM, Kim HS, Oshiro RL, Zirovich MD, **Scremin OU**, Scremin AM. Scanning laser-Doppler imaging of leg- and foot-skin perfusion in normal subjects: analysis of age, gender, site, and laser-type effects. Am J Phys Med Rehabil. 2007 Apr;86(4):262-71.

Leung FW, Go VL, **Scremin OU**, Obenaus A, Tuck ML, Golub MS, Eggena P, Leung JW. Pilot studies to demonstrate that intestinal mucosal afferent nerves are functionally linked to visceral adipose tissue. Dig Dis Sci. 2007 Oct;52(10):2695-702. Epub 2007 Mar 28.

Scremin OU, Li MG, Scremin AM. Cortical contusion induces trans-hemispheric reorganization of blood flow maps. Brain Res. 2007 Apr 13;1141:235-41. Epub 2007 Jan 8.

Figoni SF, **Scremin OU**, Kunkel CF, Opava-Rutter D, Johnson J, Schmitter ED, Scremin AM. Pre-amputation evaluation of limb perfusion with laser Doppler imaging and transcutaneous gases. J Rehabil Res Dev. 2006 Nov-Dec;43(7):891-904.

Scremin OU, Li MG, Roch M, Booth R, Jenden DJ. Acetylcholine and choline dynamics provide early and late markers of traumatic brain injury. Brain Res. 2006 Dec 8;1124(1):155-66. Epub 2006 Nov 3.

Scremin OU, Shih TM, Huynh L, Roch M, Sun W, Chialvo DR, Jenden DJ. Circadian rhythms of heart rate and locomotion after treatment with low-dose acetylcholinesterase inhibitors. J Appl Toxicol. 2006 Sep-Oct;26(5):410-8.

Shih TM, **Scremin OU**, Roch M, Huynh L, Sun W, Jenden DJ. Cerebral acetylcholine and choline contents and turnover following low-dose acetylcholinesterase inhibitors treatment in rats. Arch Toxicol. 2006 Nov;80(11):761-7. Epub 2006 Apr 21.

Scremin OU, Shih TM, Huynh L, Roch M, Sun W, Chialvo DR, Jenden DJ. Low-dose cholinesterase inhibitors do not induce delayed effects on cerebral blood flow and metabolism. Pharmacol Biochem Behav. 2005 Apr;80(4):529-40.

Scremin, O.U. "Cerebral Vascular System" in: *The Human Brain*, G.Paxinos and J. Mai (Eds). Academic Press, Sidney, 2005.

Scremin, O.U. "Vascular System" in: *The Rat Nervous System, Third Edition*, G.Paxinos (Editor). Academic Press, Sidney, 2004.

Maarek JM, Holschneider DP, Harimoto J, Yang J, **Scremin OU**, Rubinstein EH. Measurement of cardiac output with indocyanine green transcutaneous fluorescence dilution technique. *Anesthesiology*. 2004 Jun;100(6):1476-83.

Holschneider DP, Maarek JM, Yang J, Harimoto J, **Scremin OU**. Activation of cerebral cortex during acoustic challenge or acute foot-shock in freely moving, nontethered rats. *Neurosci Lett*. 2004 Jan 2;354(1):74-8.

Scremin OU, Shih TM, Huynh L, Roch M, Booth R, Jenden DJ. Delayed neurologic and behavioral effects of subtoxic doses of cholinesterase inhibitors. *J Pharmacol Exp Ther*. 2003 Mar;304(3):1111-9.

Holschneider DP, Maarek J, Yang J, Harimoto J, **Scremin OU** "Functional Brain Mapping in Freely Moving, Nontethered Rats During Treadmill Walking", *J Cerebr Blood Flow Metab*, 23(8):925-932, 2003.

Holschneider DP, Maarek J-M, Harimoto J, Yang J, and **Scremin OU** . An Implantable Bolus Infusion Pump For Use In Freely-Moving, Non-tethered Rats *Am J Physiol Heart Circ Physiol* 283(4):H1713-19, 2002.

Holschneider, D.P., **Scremin, O.U.**, Chialvo, D.R., Chen, K., Shih, J.C. Heart Rate Dynamics in Monoamine Oxidase-A and -B Deficient Mice. *Am J Physiol Heart Circ Physiol* . 2002 May;282(5):H1751-9.

Holschneider, D.P., **Scremin, O.U.**, Roos, K.P., Chialvo, D.R., Chen, K., Shih, J.C. Increased Baroreceptor Response in Mice Deficient in Monoamine Oxidase A and B. *Am J Physiol Heart Circ Physiol*. 2002 Mar;282(3):H964-72.

Holschneider, D.P., **Scremin, O.U.**, Huynh, L. Chen, K., De Maeyer, E., Seif, I., and Shih, J.C. Regional Cerebral Cortical Activation in MAO-A Deficient Mice: Differential Effects of Chronic Versus Acute Elevations in Serotonin and Norepinephrine. 2000. *Neuroscience* **101**:869-877.

Marro, M.L., **Scremin, O.U.**, Jordan, M.C., Huynh, L., Porro, F., Roos, K., Gajovic, S. Baralle, F. and Muro, A. 2000. Hypertension in β -adducin deficient mice. *Hypertension* **36**:449-453, 2000.

Scremin, A.M.E., Kurta, L., Gentili, A., Wiseman, B., Perell, K., Kunkel, C., and **Scremin, O.U.** 1999. Increasing Muscle Mass in Spinal Cord Injured Persons with a Functional Electrical Stimulation Exercise Program. *Arch Phys. Med. Rehab.* **80**:1531-6.

Holschneider, D.P., **Scremin, O.U.**, Chen, K., Shih, J.C. 1999. Lack of Protection of Monoamine Oxidase B-Deficient Mice from Age-Related Spatial Learning Deficits in the Morris Water Maze. *Life Sciences* **65**:1757-1763.

Holschneider, D.P., Waite, J.J., Leuchter, A.F., Walton, N.Y., **Scremin, O.U.** 1999. Changes in Electrocortical Power and Coherence in Response to the Selective Cholinergic Immunotoxin 192 IgG-saporin. *Experimental Brain Res.* **126**:270-280.

Scremin, O.U., Holschneider, D.P., Chen, K., Li, M.G., Shih, J.C. 1999. Cerebral Cortical Blood Flow Maps are Reorganized in MAOB-deficient mice. *Brain Research* **824**:36-44.

Waite, J.J., Holschneider, D.P., and **Scremin, O.U.** 1999. Selective Immunotoxin-Induced Cholinergic Deafferentation Alters Blood Flow Distribution in the Cerebral Cortex. *Brain Research* **818**:1-11.

Holschneider, D.P., **Scremin, O.U.** Huynh, L., Chen, K., and Shih, J.C. 1999. Lack of Protection from Ischemic Injury of Monoamine Oxidase B- Deficient Mice Following Middle Cerebral Artery Occlusion. *Neuroscience Letters* **259**:161-164.

Li, K., Tsui, C., Sung, J., **Scremin, O.U.**, and Leung, F. 1998. Potassium channels participate in gastric mucosal protection in rats with partial portal vein ligation. *Hepatology* **27**:1530-5.

Holschneider, D.P. and **Scremin, O.U.** 1998. Effects of ovariectomy on cerebral blood flow of rats. *Neuroendocrinology* **67**:260-8.

Scremin, O.U., Cuevas-Trisan, R.L., Scremin, A.M.E., Brown, C.V. and Mandelkern, M.A. 1998. Effects of functional electrical stimulation on skeletal muscle blood flow measured with H₂¹⁵O positron emission tomography. *Arch. Phys. Med. Rehab.* **79**:641-646 .

Holschneider, D.P., Leuchter, A.F., **Scremin, O.U.**, Treiman, D.M., and Walton, N.Y. 1998. Effects of cholinergic deafferentation and NGF on brain electrical coherence. *Brain Research Bull.* **45**:531-41.

Scremin, O.U., Shih, T-M., Li, M.G., and Jenden, D.J. 1998. Mapping of cerebral metabolic activation in three models of cholinergic convulsions. *Brain Research Bull.* **45**:167-174.

Zhang, R.S., Guth, P.H., **Scremin, O.U.**, Singh, R., Pervin, S., and Chaudhuri, G. 1997.

Regulation of endometrial blood flow in ovariectomized rats: assessment of the role of nitric oxide. *Am. J. Physiol.* **42**:H2009-H2017.

Holschneider, D.P., **Scremin, O.U.**, Walton, N.Y., Leuchter, A.F., and Treiman, D.M. 1997. Changes in cortical EEG and cholinergic function in response to NGF in rats with nucleus basalis lesions. *Brain Res.* **765**:228-237.

Scremin, O.U., Li, M.G. and Jenden, D.J. 1997. Cholinergic modulation of cerebral cortical blood flow changes induced by trauma. *J. Neurotrauma* **14**:573-586.

Scremin, O.U., Shih, T-M., and Li, M.G. 1997. Mapping of cortical metabolic activation in soman-induced convulsions in rats. *Brain Research Bull.* **43**:425-434.

Scremin, O.U. 1997. Pathogenesis of Alzheimer's dementia: Facts and Theories. *Psychline* **2**:31-32.

Seno, K., Zhu, J.H., Barrett, J.D., Eggena, P., **Scremin, O.U.**, Lam, K., Leung, J.W., and Leung, F.W. 1997. Cigarette smoke increases gastric ulcer size in part by an angiotensin II-mediated mechanism in rats. *Dig. Dis. Sc.* **42**:74-78.

Scremin, O.U., Li, M.G., Scremin, A.M.E., and Jenden, D.J. 1997. Cholinesterase Inhibition Improves Blood Flow in the Ischemic Cerebral Cortex. *Brain Research Bull.* **42**:59-70.

Dy, R.C., Kumar, R., and **Scremin, O.U.** 1996. Clinical outcomes of dysphagia in elderly patients with cerebrovascular accidents. *J. Neurol. Rehab.* **10**:203-208.

Hanin, I. and **Scremin O.U.** (Editors). Cholinergic and related mechanisms in aging and disease - A Tribute to Donald J. Jenden, MD- November 17-18, 1995 - University of California, Los Angeles - Los Angeles, California - *Life Sciences* (Special Issue), April 26, Vol 58, Nr 22, 1996 (158 pages).

Scremin, O.U. and Jenden, D.J. 1996. Cholinergic control of cerebral blood flow in stroke, trauma and aging. *Life Sciences* **58**:2011-2018.

Jenden, D.J., **Scremin, O.U.**, Roch, M., and Li, G. 1996. The influence of aging in whole body choline release and clearance. *Life Sciences* **58**:2003-2009.

Perell, K.L., Scremin, A.M.E., Kunkel, C.F. and **Scremin, O.U.** 1996. Quantification of muscle tone in spinal cord injured patients. *Paraplegia* **34**:46-53.

Scremin, O.U.; Shih, T.; Li, M.G. 1996 Differential effects of convulsive doses of cholinergic agents on cerebral cortex metabolism. *Med. Defense Biosci. Rev. DTIC # ADA321840.* **1**: 549-558.

Follis, F., Miller, K., **Scremin, O.U.**, Pett, S., Kessler, R., Temes, T. and Wernly, J.A. 1995. Experimental delayed postischemic spinal cord hypoperfusion after aortic cross-clamping. *Can. J. Neurol. Sci.* **22**: 202-207.

Iwata, F., **Scremin, O.U.** and Leung, F.W. 1995. Tobacco cigarette smoke attenuates duodenal ulcer margin hyperemia in the rat: Comparison of IAP clearance and hydrogen clearance techniques for measurements of gastrointestinal blood flow. *Dig. Dis. Sci.* **40**: 1112-1117.

Kumar, R., Cheng, M. and **Scremin, O.U.** 1995. Methods to estimate the proper length of a cane. *Arch. Phys. Med. Rehab.* **76**:1173-1175.

Jenden, D.J. and **O.U. Scremin**, 1995. Effects of hypoxia and hypercapnia on whole body release and clearance of choline. *Amer. J. Physiol.* **268**: R1520-R1525.

Blisard K.S., Follis, F., Wong R; Miller K.B., Wernly, J.A. and **Scremin, O.U.** 1995. Degeneration of axons in the corticospinal tract secondary to spinal cord ischemia in rats. *Paraplegia* **33**:136-140.

Zhang, R-S, **OU Scremin**, PH Guth and G Chaudhuri. 1995. Hydrogen gas clearance technique for separating rat uterine blood flow into endometrial and myometrial components. *Amer. J. Physiol.* **268**: R569-R575.

Scremin, O.U. 1995. Chapter 1: The Vascular System. In: *Paxinos, G. "The Rat Nervous System" (2nd Edition)*. Academic Press, Sidney, pgs 1-35.

Blisard, K.S., K. Fagin, P. Falivena, M.D. Privitera, P. Olejniczak, D.A. Harrington, Taylor, K.L., and **O.U. Scremin**. 1994. Experimental seizures in the frog (*rana pipiens*). *Epilepsy Research* **17**: 13-22.

Follis, F., K. Miller, **Scremin, O.U.**, S. Pett, R. Kessler and J. Wernly. 1994. NMDA Receptor Blockade and Spinal Cord Ischemia Due to Aortic Crossclamping in the Rat Model. *Can J. Neurol Sci.* **21**:227-232.

Scremin, O.U., A.M.E. Scremin, D. Heuser, R. Hudgell, E. Romero and B.P. Imbimbo. 1993. Prolonged effects of cholinesterase inhibition with eptastigmine on the cerebral blood flow-metabolism ratio of normal rats. *J. Cer. Blood Flow Metabol.* **13**: 702-711.

Follis, F., K. Miller, **O.U.Scremin**, S. Pett, R.K. Kessler and J. Wernly. 1993. Patterns of spinal cord blood flow during and after aortic cross-clamping in the rat model. *Surg Forum* **44**:322-324.

Scremin, O.U. and Jenden, D.J. 1993. Acetylcholine turnover and release. The influence of energy metabolism and systemic choline availability. *Progress in Brain Research*.

98:193-197.

Scremin, O.U. 1993. Cholinergic Innervation. In: *Phillis, J.W. "The Regulation of Cerebral Blood Flow". CRC Press, Inc. Boca Raton.*

Endoh, K, J Kao, M Baker, **OU Scremin** and F Leung. 1993. Mechanism of intragastric tetramethylammonium protection against 40% ethanol-induced injury in rat stomach. *Dig Dis Sc* **38**:708-712

Follis, F., **Scremin, O.U.**, Blisard, K.S., Scremin, A.M.E., Pett, S.B., Scott, W.J., Kessler, R.M. and Wernly, J.A. 1993. Selective vulnerability of white matter during spinal cord ischemia. *J. Cer. Blood Flow Metabol.* **13**: 170-178.

Rosenberg, G.A., **Scremin, O.U.**, Estrada, E. and Kyner, W.T. 1993. Arginine vasopressin V₁-antagonist and atrial natriuretic peptide reduce hemorrhagic brain edema in rat. *STROKE*, **23**: 1767-1773.

Davis, L.E., Woodfin, B.M., Tran, T.Q., Caskey, L.S., Wallace, J.M., **Scremin, O.U.**, and Blisard, K.S. 1993. The influenza B virus mouse model of Reye's syndrome: pathogenesis of the hypoglycaemia. *Int. J. Exp. Pathol.* **74**:251-258, 1993.

Livingston, E.H., Garrick, T.R., **Scremin, O.U.**, Tasue, N., Passaro, E.P., Guth, P.H. Heterogeneous distribution of gastric mucosal blood flow with restraint stress in the rat. *Dig. Dis. Sciences* **38**:1233-1242, 1993

Scremin, O.U. and Jenden, D.J. The effects of hypoxia on choline exchange among organs. *J Neurochem* **59**: 906-914, 1992.

Scremin, A.M.E., Kunkel, C.F., Eisenberg, B., Elliot, T. and **Scremin, O.U.** Physostigmine improves cerebral blood flow in human focal cerebral ischemia. *J Stroke Cerebrovasc. Dis.* **2**:87-91, 1992.

Shih, T and **OU Scremin**. Cerebral blood flow and metabolism in soman-induced convulsions. *Brain Res Bull* **28**: 735-742, 1992.

Scremin, O.U. and Jenden, D.J. 1991. Effects of ischemia and hypoxia on cerebral choline. *Bull Clin. Neurosciences* **55**:123-130

Scremin OU and DJ Jenden. 1991. Time-dependent changes in cerebral choline and acetylcholine induced by transient global ischemia in rats. *Stroke* **22**:643-647.

Scremin OU, T-M Shih and KD Corcoran. 1991. Cerebral blood flow-metabolism coupling after administration of soman at non-toxic levels. *Brain Res Bull* **26**:353-356.

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Follis, F, **OU Scremin**, KS Blisard, AME Scremin, S Pett, W Scott, and J Wernly. 1991. Clamping of the thoracic aorta in the rat: a potential model of white matter ischemia. *J Cer Blood Flow Metabol.* **11**: S334.

Scremin, OU and T. Shih. 1991. Hypermetabolism is not matched by blood flow in key rat brain regions during soman-induced seizures. *J Cer Blood Flow Metabol.* **11**: S404.

Scremin OU, AME Scremin, SM Somani and E Giacobini. 1990. Brain regional distribution of physostigmine and its relation to cerebral blood flow following intravenous administration in rats. *J Neurosci Res* **26**:188-195

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