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## CURRICULUM VITAE

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**PLACE OF BIRTH:** Royal Oak, Michigan

**DATE OF BIRTH:** June 14, 1945

### EDUCATION:

Baccalaureate B.S.	Michigan State University	1966
Doctoral D.V.M.	Michigan State University	1968
Ph.D.	Michigan State University Department of Pharmacology NIH Postdoctoral Fellowship	1975
Postdoctoral Intern	Animal Medical Centre New York, NY	1968-1969
Research Associate/ Instructor	Michigan State University Department of Pharmacology Advisor: Gerard Gebber	1971-1973

### RESEARCH AND/OR PROFESSIONAL EXPERIENCE:

Director	Laboratory of Spinal Cord Injury Robarts Research Institute London, Ontario	2001-
Scientist	BioTherapeutics Research Group, Robarts Research Institute	2001-

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Deputy Director	Robarts Research Institute	1997-2001
Director/Scientist	Neurodegeneration Research Group	1994-2001
Scientist/Co-Director	Robarts Research Institute, Stroke and Aging Group	1986-1994
	Robarts Research Institute,	
Professor	University of Western Ontario, London, Ontario	1986-present
Professore a Contratto	Department of Human Physiology, University of Genoa, Genoa, Italy	1987-1994
Professor/ Director of Graduate Studies	Department of Physiology, Michigan State University	1984-1986
Associate Professor	Department of Physiology, Michigan State University	1975-1984
Research Collaboration	Center for Clinical Physiology and Hypertension, University of Milan, Milan, Italy	1983-1986
Visiting Lecturer	Department of Physiology, Tufts University School of Veterinary Medicine, Boston, MA	1981
Trainer	Cardiovascular Training Grant, National Heart, Lung, and Blood Institute, Michigan State University	1978-1987
Visiting Scientist	Department of Physiology, University of Birmingham Birmingham, England	1979-1980
Staff Veterinarian and Research Associate	Department of Surgical Research, Long Island Jewish Medical Center, New Hyde Park, NY	1970-1971
Veterinarian	Wantagh Animal Hospital, Wantagh, NY	1969-1970

**PROFESSIONAL SOCIETIES:**

American Spinal Injury Society (ASIA)	2004-present
International Society for Autonomic Neurosciences	1997-present
National Neurotrauma Society	1993-present
International Brain Research Organization	1985-present
Michigan Society for Medical Research	1984-1986
Canadian Physiological Society	1983-present
American Physiological Society	1979-present
Association of American Veterinary Medical Educators	1979-1987
Society for Experimental Biology and Medicine	1977-present
Michigan Heart Association	1977-1986

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American Association for the Advancement of Science	1975-present
Society for Neuroscience	1974-present
Academy of Veterinary Cardiologists	1969-1971
American Veterinary Medical Association	1968-1970

**PROFESSIONAL LICENSURE:**

Michigan and New York

**PROFESSIONAL HONOURS:**

FORE Visiting Scholar: The Miami Project to Cure Paralysis	2004
Barbara Turnbull Challenge Project for Spinal Cord Injury Research	2001
Michigan State University Distinguished Faculty Award	1986
National Institutes of Health Research Career Development Award	1978-1983
Phi Zeta	
Phi Kappa Phi	
American Society for Pharmacology and Experimental Therapeutics Travel Award	1974

**PROFESSIONAL SERVICE:**

National Neurotrauma Society, Secretary Treasurer	2005-2006
ASIA subcommittee on Standards for Autonomic Function	2004-present
Canadian Institutes of Health Research, Cell Biology and Mechanisms of Disease Review Committee	2001-present
Ontario Neurotrauma Foundation Biomedical Research Committee	1999-present
Canadian Hypertension Society, Board Member	1996-1999
Heart and Stroke Foundation of Canada, Senior Personnel Review Committee	1994-1997
National Institutes of Health, Member of Special Reviewer Reserve	1989-present
Medical Research Council, Member Neuroscience B Review Committee	1991-1994
Membership Committee, American Physiological Society	1985-1989
Experimental Cardiovascular Science Study Section Member	1978-1983
American Heart Association of Michigan Public Relations Committee	1985-1986
Editorial Board: American Journal of Physiology, Heart and Circulatory Physiology	1986-1994
Section Editor, Neural regulation of the cardiovascular system. In <u>Annual Review of Physiology</u> 50:1988.	

Reviewer:	Journal of Neuroscience Neuroscience Experimental Neurology Journal of Neurotrauma Journal of Comparative Neurology American Journal of Physiology Ontario Neurotrauma Foundation Canadian Institutes of Health Research
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**INVITED PRESENTATIONS IN SYMPOSIA AND WORKSHOPS:**

1. Cardiac sympathetic afferent influences on renal nerve activity. Satellite Symposium: Central Organization of the Autonomic Nervous System. XXIV International Congress of Physiology. Heidelberg, Federal Republic of Germany, 1980.
2. Neural basis for differential cardiovascular control. Working Conference on Circulation, Neurobiology, and Behaviour. Dallas, TX, 1982.
3. Generation of patterns of cardiovascular control. (Organized and chaired session and presented paper). FASEB Summer Research Conference: Central Neural Factors in Cardiovascular Regulation. Saxtons River, VT, 1982.
4. Patterns of sympathetic reflexes generated by chemical stimulation of visceral receptors. Symposium on Neural Mechanisms and Cardiovascular Disease. Santa Margherita, Italy, May 1-3, 1985.
5. Organization of differential sympathetic responses to activation of visceral receptors and arterial baroreceptors. NATO Advanced Study Institute: The Molecular Basis for the Central and Peripheral Regulation of Vascular Resistance. Altavilla Milicia, Sicily, May 4-10, 1985.
6. Electrical activity of efferent renal nerves. American Physiological Society-Canadian Physiological Society Symposium: Renal Reflexes. Niagara Falls, NY, October 18, 1985.
7. Organization of sympathetic influences on the kidney and capacitive circulation. Satellite Symposium: Organization of the autonomic nervous system: Central and peripheral mechanisms. XXX International Congress of Physiological Sciences, Montreal, Canada, July 8-10, 1986.
8. Control of spinal preganglionic neurons. (Organized and chaired session). FASEB Seminar Research Conference: Neural Mechanisms in Cardiovascular Regulation. Saxtons River, VT, 1987
9. Selective tonic and reflex control of sympathetic postganglionic neurons. Symposium: Specificity in the control of regional sympathetic outflow: physiological, neurochemical and anatomical approaches. (Organized and chaired session). Society for Neuroscience, Toronto, Ontario, Canada, November 13-18, 1988.
10. Neuroregulation of circulation after a spinal cord injury. 5th Annual Spinal Cord Injury Research Symposium. Canadian Paraplegic Association, Vancouver, Canada, October 25-28, 1989.
11. Brainstem and pontine mechanisms in cardiovascular regulation. 2nd Annual Symposium of Groupe de Recherche sur le systeme nerveux autonome, Université de Montreal. Autonomic modulation of cardiac rhythms, Montreal, Canada, October 25, 1991.

12. Neural Mechanisms in Hypertension. Satellite Symposium of International Society for Hypertension. Ayers Rock, Australia, March 16-18, 1994.
13. Sympathetic Preganglionic Responses to Spinal Cord Injury. Symposium: Spinal Mechanisms of Autonomic Regulation. Experimental Biology, Anaheim, California, U.S.A., April 1994.
14. Disordered Cardiovascular Control After Spinal Injury: Mechanisms for Autonomic Dysreflexia. 3rd International Neurotrauma Symposium, Toronto, Ontario, July 22-27, 1995.
15. Plasticity in the spinal cord after injury. Central Neural Factors in Cardiovascular Regulation. FASEB Summer Research Conference, Saxtons River, Vermont, 1996.
16. Sprouting of primary afferent pain fibres after spinal cord injury. Symposium: Sensorimotor Functions of the Nervous System. Tamilnader, India, January, 1997.
17. Plasticity in the spinal cord after injury: implications for cardiovascular control. Distinguished Lecture Series, Oklahoma Center for Neuroscience, University of Oklahoma, Oklahoma City, Oklahoma, January 1997.
18. Spinal cord injury and dysreflexia. Symposium: Disorders of the autonomic nervous system. Inaugural Congress of the International Society for Autonomic Neuroscience. Cairns, Australia, September, 1997.
19. Nerve growth factor in the injured spinal cord triggers primary afferent sprouting and autonomic dysreflexia. Central Neural Factors in Cardiovascular Regulation. FASEB Summer Research Conference, Saxtons River, Vermont, 1999.
20. Nerve growth factor in the injured spinal cord triggers primary afferent sprouting and autonomic dysreflexia. 2<sup>nd</sup> Congress of the International Society for Autonomic Neuroscience. London, England, July, 2000.
21. Plasticity and regeneration of the injured spinal cord. Symposium: Federation of Experimental Biology and Medicine. Orlando, FL., April, 2001.
22. Spinal cord disorders and neuropathic pain. Conference of Canadian Syringomyelia Network. Toronto, ON. April 26, 2001.
23. Autonomic dysfunction and pain after spinal cord injury. Symposium: Neuropathic Pain/Spinal Cord Injuries. Canadian Congress of Neurological Sciences. Halifax, NS, June 16, 2001.
24. NGF, inflammation and autonomic dysreflexia after spinal cord injury. (Satellite of the International Union of Physiological Sciences) Symposium: Autonomic dysfunction after spinal cord injury. Sydney, Australia, September 2, 2001.
25. Mechanisms for autonomic dysreflexia after spinal cord injury. Network Meeting of the International Spinal Cord Research Trust, London, U.K. September 14, 2001.

26. Autonomic dysreflexia and pain: secondary sequelae of spinal cord injury. Joint meeting of the American Spinal Injury Association and the International Medical Society of Paraplegia. Vancouver, B.C., May 6, 2002
27. Dealing with the first 48 hours of the inflammatory response to spinal cord injury. Inaugural Charles Tator-Barbara Turnbull Lectureship in Spinal Cord Injury. Toronto Western Hospital, Toronto, ON September 27, 2002.
28. Inflammation and early rescue of the injured spinal cord" in "Autonomic dysfunction after spinal injury, Kentucky Spinal Cord and Head Injury Research Trust Symposium, June 26-28, 2003.
29. ISAN 2003: Advancing autonomic neuroscience after the genome, 3rd International Society for Autonomic Neuroscience Meeting. Chair, 9<sup>th</sup> session entitled: "Autonomic dysfunction after spinal cord injury". Calgary, Alberta, July 4-8, 2003.
30. Autonomic dysfunction after spinal cord injury: mechanisms, prevention and treatment. Working Symposium after the 3<sup>rd</sup> meeting on the Int'l Soc. For Autonomic Neurosci., Banff, AB, July 11-12, 2003. Symposium Organizer.
31. Inflammation and Scar Formation after Spinal Cord Injury, Spinal Research Network Meeting, International Spinal Research Trust, London, UK, September 12-13, 2003.
32. Sensory and Autonomic Dysfunction in the "Spinal Cord Injury Clinical Session", The 21<sup>st</sup> Annual National Neurotrauma Society Symposium, New Orleans, Louisiana, November 6, 2003.
33. Autonomic dysreflexia, pain and inflammation after spinal cord injury, in Emerging Concepts, 13<sup>th</sup> Inter-Urban Spinal Cord Injury Conference, London, Ontario, October 2,3, 2003.
33. An early anti-inflammatory strategy markedly reduces autonomic dysreflexia and chronic pain after clip-compression spinal cord injury in rats in Visceral Function and Pain in Spinal Cord Injury, 10<sup>th</sup> Annual International Symposium on Neural Regeneration, Monterey, California, December 10-14, 2003.
35. An early treatment with an anti-CD11d antibody is highly neuroprotective after spinal cord injury. International Campaign for Cure of spinal cord injury Paralysis Clinical Trials Workshop. Vancouver, British Columbia, February 21,22, 2004. (An international workshop limited to 100 invited participants who are either conducting a trial for a cell or pharmacological treatment for cord injury or who are viewed to have a promising treatment under investigation)
36. Early anti-inflammatory neuroprotective treatments that minimize oxidative damage to the spinal cord do not all translate to improve neurological outcome. Spinal Research Network Meeting, International Spinal Research Trust, London, UK, September 3-4, 2004.

#### **PUBLICATIONS:**

1. Gebber, G.L., D.G. Taylor and **L.C. Weaver**. Electrophysiological studies on organization of central vasopressor pathways. Am. J. Physiol. 224:470-481, 1973.

2. **Weaver, L.C.** and G.L. Gebber. Electrophysiological analysis of neural events accompanying active dilatation. *Am. J. Physiol.* 226:84-89, 1974.
3. **Weaver, L.C.**, T. Akera and T.M. Brody. Opposing responses in sympathetic nerve activity induced by central injections of ouabain. *J. Pharmacol. Exp. Ther.* 195:114-125, 1975.
4. **Weaver, L.C.**, T. Akera and T.M. Brody. Digoxin toxicity: Primary sites of drug action on the sympathetic nervous system. *J. Pharmacol. Exp. Ther.* 197:1-9, 1976.
5. **Weaver, L.C.**, T. Akera and T.M. Brody. Enhancement of phrenic nerve activity by digoxin: An effect dependent upon intact IX and X cranial nerves. *J. Pharmacol. Exp. Ther.* 200:141-146, 1977.
6. **Weaver, L.C.**, T. Akera and T.M. Brody. Digitalis toxicity: Lack of marked effect on brain Na<sup>+</sup>-K<sup>+</sup>-ATPase. *J. Pharmacol. Exp. Ther.* 200:638-646, 1977.
7. Buckley, N.M., P.M. Gootman, N., G.D. Reddy and **L.C. Weaver**. Age dependent cardiovascular effects of afferent stimulation in neonatal pigs. *Biology of the Neonate* 30:268-279, 1977.
8. **Weaver, L.C.** Cardiopulmonary sympathetic afferent influences on renal nerve activity. *Am. J. Physiol.* 233:H592-H599, 1977.
9. Ku, D., T. Akera, T.M. Brody and **L.C. Weaver**. Chronic digoxin treatment on canine myocardial Na<sup>+</sup>-K<sup>+</sup>-ATPase. *Naunyn-Schmeiedeberg's Arch. Pharmacol.* 301:39-47, 1977.
10. **Weaver, L.C.**, L.J. Macklem, K.A. Reimann, R.L. Meckler and R.S. Oehl. Organization of thoracic sympathetic afferent influences on renal nerve activity. *Am. J. Physiol.* 237:H44-H50, 1979.
11. Reimann, K.A. and **Weaver, L.C.** Contrasting reflexes evoked by chemical activation of cardiac afferent nerves. *Am. J. Physiol.* 239:H316-H325, 1980.
12. **Weaver, L.C.**, L.M. Danos, R.S. Oehl and R.L. Meckler. Contrasting reflex influences of cardiac afferent nerves during coronary occlusion. *Am. J. Physiol.* 240:H620-H629, 1981.
13. **Weaver, L.C.** Cardiac sympathetic afferent influences on renal nerve activity. *J. of the Autonomic Nervous System* 3:253-263, 1981. (Proceedings of the 1980 International Congress of Physiology Satellite Symposium: Central Organization of the Autonomic Nervous system)
14. Meckler, R.L., L.J. Macklem and **L.C. Weaver**. Cardiac sympathetic afferent influences on renal function. *Am. J. Physiol.* 241:R267-R270, 1981.
15. **Weaver, L.C.** Neural basis for differential cardiovascular control. In: Circulation, Neurobiology and Behavior, edited by O.A. Smith, R.A. Galosy and S.M. Weiss. New York: Elsevier, 1982, pp. 77-84. (Proceedings of 1981 Working conference on Circulation, Neurobiology and Behavior.)

16. Tobey, J., H. Fry, C.S. Mizejewski, G. Fink and **L.C. Weaver**. Differential sympathetic responses initiated by angiotensin and sodium chloride. *Am. J. Physiol.* 245 (Regulatory Integrative Comp. Physiol. 14):R60-R68, 1983.
17. **Weaver, L.C.**, R.L. Meckler, H.K. Fry and S. Donoghue. Widespread neural excitation initiated from cardiac spinal afferent neurons. *Am.J. Physiol.* 245 (Regulatory Integrative Comp. Physiol. 14):R241-R250, 1983.
18. **Weaver, L.C.**, H.K. Fry, R.L. Meckler and R.S. Oehl. Multisegmental spinal sympathetic reflexes originating from the heart. *Am. J. Physiol.* 245 (Regulatory Integrative Comp. Physiol. 14):R345-R352, 1983.
19. **Weaver, L.C.**, H.K. Fry and R.L. Meckler. Differential renal and splenic nerve responses to vagal and spinal afferent inputs. *Am. J. Physiol.* 246 (Regulatory Integrative Comp. Physiol. 15):R78-R87, 1984.
20. Stein, R., R. Stephenson and **L.C. Weaver**. Central actions of angiotensin oppose baroreceptor induced sympathoinhibition. *Am. J. Physiol.* 246 (Regulatory Integrative Comp. Physiol. 15):R13-R19, 1984.
21. Kim, D., T. Akera and **L.C. Weaver**. Role of sympathetic nervous system in ischemia-induced reduction of digoxin tolerance in anesthetized cats. *J. Pharmacol. Exp. Ther.* 228:537-544, 1984.
22. Calaresu, F.R., J.C. Tobey, S.R. Heidemann and **L.C. Weaver**. Splenic and renal sympathetic responses to stimulation of splenic receptors. *Am. J. Physiol.* 247 (Regulatory Integrative Comp. Physiol. 16):R856-R865, 1984.
23. Meckler, R.L. and **L.C. Weaver**. Comparison of the distributions of renal and splenic neurons in sympathetic ganglia. *J. Autonom. Nervous System* 11:189-200, 1984.
24. **Weaver, L.C.** Organization of sympathetic responses to distension of the urinary bladder. *Am. J. Physiol.* 248 (Regulatory Integrative Comp. Physiol. 17): R236-R240, 1985.
25. Meckler, R.L. and **L.C. Weaver**. Splenic, renal, and cardiac nerves have unequal dependence upon tonic supraspinal inputs. *Brain Research* 338:123-35, 1985.
26. **Weaver, L.C.**, R.L. Meckler, J.C. Tobey and R.D. Stein. Organization of differential sympathetic responses to activation of visceral receptors and arterial baroreceptors. In: Central and Peripheral Regulation of Vascular Resistance, edited by A. Magro, D. Reis, P VanHoutte, and W. Osswald. New York: Plenum Publishing Corporation, 1986.
27. **Weaver, L.C.**, R.D. Stein, J.C. Tobey and R.L. Meckler. Patterns of sympathetic reflexes generated by chemical stimulation of visceral receptors. In: Neural Mechanisms and Cardiovascular Disease, edited by A. Malliani. Padova, Italy: Fidia Research Series/Liviana Press, 1986.
28. Stella, A., **L. C. Weaver**, S. Genovesi, R. Golin and A. Zanchetti. Mesenteric and renal responses to stimulation of intestinal receptors by bradykinin. *J. Hypertension* 4 (Suppl. 6): S48-S50, 1986.

29. Stein, R.D., K.T. Demarest, S. Genovesi and **L.C. Weaver**. Capsaicin treatment attenuates the reflex excitation of sympathetic activity caused by chemical stimulation of intestinal afferent nerves. *Brain Research* 397: 145-151, 1986.
30. **Weaver, L.C.**, R.L. Meckler and R.D. Stein. Organization of sympathetic influences on the kidney and capacitive circulation. In: Organization of the Autonomic Nervous System: Central and Peripheral Mechanisms, edited by J. Ciriello, L. Renaud, F.R. Calaresu and C. Polosa. New York: Alan Liss, 1987.
31. Tobey, J.C. and L.C. Weaver. Pressoreceptor modulation of renal but not splenic sympathetic reflexes. *Am. J. Physiol.* 252 (Regulatory Integrative Comp. Physiol. 21): R26-R33, 1987.
32. **Weaver, L.C.**, S. Genovesi, A. Stella and A. Zanchetti. Neural, hemodynamic, and renal responses to stimulation of intestinal receptors. *Am. J. Physiol.* 253 (Heart Circ. Physiol.): H1167-1176, 1987.
33. Stella, A., **L. Weaver**, R. Golin, S. Genovesi and A. Zanchetti. Cardiovascular effects of afferent renal nerve stimulation. In: *Clin. and Exper. -Theory and Practice A9 (Suppl.1): 97-111*, 1987.
34. Meckler, R.L. and **L.C. Weaver**. Characteristics of ongoing and reflex discharge of single renal and splenic sympathetic postganglionic fibers in cats. *J. Physiol. (London)* 396: 139-153, 1988.
35. Stein, R.D. and **L.C. Weaver**. Multi- and single fibre mesenteric and renal sympathetic responses to chemical stimulation of intestinal receptors in cats. *J. Physiol. (London)* 396: 155-172, 1988.
36. Meckler, R.L. and **L.C. Weaver**. Persistent firing in renal and splenic nerves after acute decentralization but failure to elicit ganglionic reflexes. *Neuroscience Letters* 88: 167-172, 1988.
37. Qu, L., R. Sherebrin and **L.C. Weaver**. Blockade of spinal pathways decreases pre- and postganglionic discharge differentially. *Am. J. Physiol.* 255: R946-R951, 1988.
38. Stein, R.D., **L.C. Weaver** and C.P. Yardley. Ventrolateral medullary neurons: Effects on magnitude and rhythm of discharge of mesenteric and renal nerves in cats. *J. Physiol. (London)*: 408: 571-586, 1989.
39. **Weaver, L.C.**, R.D. Stein and R.L. Meckler. Characteristics of ongoing and reflex discharge of renal postganglionic neurons. Invited review In: Mineral and Electrolyte Metabolism, edited by G.F. DiBona. 15: 24-32, 1989.
40. **Weaver, L.C.** and R.D. Stein. Effects of spinal cord transection on sympathetic discharge in decerebrate-unanesthetized cats. *Am. J. Physiol.* 257(Regulatory Integrative Comp. Physiol.26):R1506-R1511, 1989.
41. Yardley, C.P., R.D. Stein, **L.C. Weaver**. Tonic influences from the rostral medulla affect sympathetic nerves differentially. *Am. J. Physiol.* R323-R331, 1989.
42. Yardley, C.P., C.L. Fitzsimons and **L.C. Weaver**. Cardiac and peripheral vascular contributions to hypotension in spinal cats. *Am. J. Physiol.* 2(Heart Circ. Physiol.26):H1347-H1353, 1989.

43. Yardley, C.P., J.M. Andrade and **L.C. Weaver**. Evaluation of cardiovascular control by neurons in the dorsal medulla of rats. *J. Autonom. Nervous System*. 29:1-11, 1989.
44. Hayes, K. and **L.C. Weaver**. Selective control of sympathetic pathways to the kidney, spleen and intestine by the ventrolateral medulla in rats. *J. Physiol. (London)*, 428:371-385, 1990.
45. Hayes, K., V. Chevendra and **L.C. Weaver**. Pre- and postganglionic activity in white rami of rats. *Neurosci. Lett.* 115:55-61, 1990.
46. Hayes, K., C.P. Yardley and **L.C. Weaver**. Evidence for descending tonic inhibition specifically affecting sympathetic pathways to the kidney in rats. *J. Physiol. (London)* 434:295-306, 1991.
47. Chevendra, V. and **L.C. Weaver**. Distributions of splenic, mesenteric and renal neurones in sympathetic ganglia in rats. *J. Auton. Nerv. Syst.* 33:47-54, 1991.
48. Beluli, D.J. and **L.C. Weaver**. Differential control of renal and splenic nerves without medullary topography. *Am. J. Physiol.* 260:H1072-H1079, 1991.
49. Beluli, D.J. and **L.C. Weaver**. Areas of rostral medulla providing tonic control of renal and splenic nerves. *Am. J. Physiol.* 261:H1687-1692, 1991.
50. Chevendra, V. and **L.C. Weaver**. Distributions of neuropeptide Y, vasoactive intestinal peptide and somatostatin in populations of postganglionic neurones innervating the rat kidney, spleen and intestine. *Neurosci.* 50:727-743, 1992.
51. Dehal, N., A. Karteseva and **L.C. Weaver**. Comparison of the locations and neuropeptide content of postganglionic neurons innervating veins and arteries of the rat hindlimbs. *J. Auton. Nerv. Syst.* 39:61-72, 1992.
52. Hayes, K., and **L.C. Weaver**. Tonic sympathetic excitation and vasomotor control from pontine reticular neurons. *Am. J. Physiol.* 263:H1567-H1575, 1992.
53. Taylor, R.B. and **L.C. Weaver**. Spinal stimulation to locate preganglionic neurons controlling the kidney, spleen, or intestine. *Am. J. Physiol.* 263:H1026-H1033, 1992.
54. Taylor, R.B. and **L.C. Weaver**. Dorsal root afferent influences on tonic firing of renal and mesenteric sympathetic nerves in rats. *Am. J. Physiol.* 264(33):R1193-R1199, 1993.
55. Krassioukov, A.V., A.W. Gelb and **L.C. Weaver**. Action of propofol on central sympathetic mechanisms controlling blood pressure. *Anesthesia. Can. J. Anaesth.* 40:761-769, 1993.
56. Longley, C.D. and **L.C. Weaver**. Proportions of renal and splenic postganglionic sympathetic populations containing galanin and dopamine beta hydroxylase. *Neurosci.* 55:253-261, 1993.
57. Dehal, N.S., G.A. Dekaban, A.V. Krassioukov, R.J. Picard and **L.C. Weaver**. Identification of renal preganglionic neurons in hamsters using transynaptic transport of herpes simplex type 1 virus. *Neurosci.* 56:227-240, 1993.

58. Krassioukov, A.V. and **L.C. Weaver**. Connections between pontine reticular formation and rostral ventrolateral medulla in cardiovascular control. *Am. J. Physiol.* 256:H1386-H1392, 1993.
59. Ermirio, R, P. Ruggeri, C. Molinari and **L.C. Weaver**. Somatic and visceral inputs to neurons of the rostral ventrolateral medulla. *Am. J. Physiol.* 265:R35-R40, 1993.
60. Hayes, K., F.R. Calaresu and **L.C. Weaver**. Pontine reticular neurons provide tonic excitation to neurons in the rostral ventrolateral medulla in rats. *Am. J. Physiol.* R237-244, 1993.
61. Korkola, M.L. and **L.C. Weaver**. Role of dorsal medullary reticular formation in maintenance of vasomotor tone in rats. *J. Auton. Nerv. Syst.* 46: 161-169, 1993.
62. Hong, Y. and **L.C. Weaver**. Distribution of immunoreactivity to enkephalin, substance P and vasoactive intestinal peptide in fibres surrounding splanchnic sympathetic preganglionic neurons in rats. *Neurosci.*, 57:1121-1133, 1993.
63. Hong, Y., D.F. Cechetto and **L.C. Weaver**. Spinal cord regulation of sympathetic activity in intact and spinal rats. *Am. J. Physiol.* 266:H1485-H1493, 1994.
64. Krassioukov, A.V., D.G. Munoz, J. Yang and **L.C. Weaver**. Effect of chromogranin A on central autonomic control of blood pressure. *J. Auton. Nerv. Syst.*, 50:61-71, 1994.
65. Krassioukov, A.V. and **L.C. Weaver**. Central sympathetic mechanisms of blood pressure control in hamsters. *J. Auton. Nerv. Syst.*, 48:181-186, 1994.
66. Avanzino, G.L., P. Ruggeri, D. Bianchi, C. Cogo, R. Ermirio and **L.C. Weaver**. GABA<sub>B</sub> receptor-mediated mechanisms in the RVLM studied by microinjection of two GABA<sub>B</sub> receptor antagonists. *Am. J. Physiol.* 266:H1722-H1728, 1994.
67. Krassioukov, A.V. and **L.C. Weaver**. Reflex and morphological changes in spinal preganglionic neurons after cord injury in rats. *Clin. and Exper. Hypertension*, 17:361-373, 1995.
68. Krassioukov, A.V., Gelb, A.W., and **L.C. Weaver**. Actions of propofol on pontine neurons controlling arterial pressure in rats. *Can. J. Anaesthesia.* 42:150-157, 1995.
69. Joshi, S., M.A. LeVatte, G.A. Dekaban and **L.C. Weaver**. Identification of spinal interneurons antecedent to sympathetic preganglionic neurons using transsynaptic transport of herpes simplex virus type 1. *Neurosci.* 65:893-903, 1995.
70. LeVatte, M.A., **L.C. Weaver**, I.A. York, D. Johnson, G.A. Dekaban. Delivery of a foreign gene to sympathetic preganglionic neurons using recombinant herpes simplex virus. *Neurosci.* 66:737-750, 1995.
71. Krassioukov, A.V. and **L.C. Weaver**. Episodic hypertension due to autonomic dysreflexia in acute and chronic spinal cord-injured rats. *Am. J. Physiol.* 268:H2077-2083, 1995.
72. Krassioukov, A.V. and **L.C. Weaver**. Morphological changes in sympathetic preganglionic neurons after cord injury in rats. *Neurosci.* 70:211-225, 1996.

73. Krenz, N.R. and **L.C. Weaver**. CGRP expression increases in the ventral horn rostral to spinal cord transection, *NeuroReport*, 7:2859-2862, 1996.
74. Maiorov, D.N., **Weaver, L.C.** and A.V. Krassioukov. Relationship between sympathetic activity and arterial pressure in conscious spinal rats. *Am. J. Physiol.* 272:H625-H631, 1997.
75. Mabon, J., LeVatte, M.A., Dekaban, G.A. and **L.C. Weaver**. Identification of sympathetic preganglionic neurons controlling the small intestine in hamsters using a recombinant herpes simplex virus type-1. *Brain Res.* 753:245-250, 1997.
76. Cassam, A.K., Llewellyn-Smith, I.J. and **L.C. Weaver**. Catecholamine enzymes and neuropeptides are expressed in fibres and somata in the intermediate grey matter in chronic spinal rats. *Neurosci.* 78:829-841, 1997.
77. LeVatte, M.A., Dekaban, G.A. and **L.C. Weaver**. Gene transfer into sympathetic preganglionic neurons *in vivo* using a nonreplicating thymidine kinase deficient herpes simplex virus type 1. *Neurosci.* 80:893-906, 1997.
78. Llewellyn-Smith, I.J., Cassam, A.K., Krenz, N.R., Krassioukov, A.V. and **L.C. Weaver**. Glutamate- and GABA-immunoreactive synapses on sympathetic preganglionic neurons caudal to a spinal cord transection in rats. *Neurosci.* 80:1225-1235, 1997.
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113. Dunn, E.A., **Weaver, L.C.**, Dekaban, G.A., Foster, P.J. Cellular imaging of inflammation using advanced microimaging techniques in experimental spinal cord injury. *Mol. Imaging* 4:1-10, 2005.
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115. Gris, D., Marsh, D. R., Dekaban, G.A. and **Weaver, L.C.** Comparison of the effects of methylprednisolone and anti-CD11d antibody anti-inflammatory treatment on autonomic dysreflexia after spinal cord injury. *Experimental Neurology*, in press, 2005.

#### **SUBMITTED:**

1. John, S. M. Bao, F, Kittner, C, Mathison, R.D. and **Weaver, L.C.** The tripeptide feG modulates leukocyte infiltration and oxidative damage in rat injured spinal cord and improves neurological outcomes. *Experimental Neurology*, submitted, 2005
2. **Weaver, L.C.**, Gri, D., Saville, L.R., Oatway, M.A., Chen, Y., Marsh. D.R., Hamilton, E.F. and Dekaban, G.A. Comparison of effects of methylprednisolone and/or a selective antibody to the leukocyte integrin CD11d on outcomes of spinal cord injury in rats. *J. Neurotrauma*, in revision, 2005

#### **INVITED REVIEWS AND BOOKS:**

1. Krassioukov, A.V. and **Weaver, L.C.** Anatomy of the autonomic nervous system. In *Physical Medicine and Rehabilitation: State of the Art Reviews*, Vol. 10, Ed. by R.W. Teasell. Hanley and Belfus, Inc., pp. 1-14, 1995.
2. **Weaver, L.C.** and C. Polosa. Spinal cord circuits providing control of sympathetic preganglionic neurons. In: *The Autonomic Nervous System: Central Nervous Control of Autonomic Function*, edited by D. Jordan, Reading, U.K.: Harwood Academic Publishers, Amsterdam, pp. 29-61, 1997.
3. **Weaver, L.C.**, Marsh, D.R., Gris, D., Meakin, S.O. and Dekaban, G.A. Central mechanisms for autonomic dysreflexia after spinal cord injury. In *Spinal Cord Trauma, Neural Repair and Functional Recovery*. Progress in Brain Research, Ed. by L. McKerracher, S. Rossignol and G. Doucet. Elsevier Science B.V., Amsterdam, 137:83-95, 2002.
4. **Weaver, L.C.** What causes autonomic dysreflexia after spinal cord injury? Editorial in *Clinical*

5. Llewellyn-Smith, I.J. and **Weaver, L.C.** Interneuronal inputs to sympathetic preganglionic neurons: Evidence from transected spinal cord. In. *Neural Control of the Circulation*. Kluwer Publishers, Ed. N. Dun, pp. 266-283, 2003.

6. **Weaver L.C.**, Marsh, D.R. Gris, D. Brown A. and Dekaban, G.A., Mechanisms of autonomic dysreflexia after spinal cord injury. In *Autonomic Dysfunction after Spinal Cord Injury*. Progress in Brain Research, Ed. L.C. Weaver and C. Polosa, Elsevier BV, 2005.

7. **Weaver L.C.** and Dekaban, G.A., Neuroprotective effects of an anti-CD11d integrin antibody after spinal cord injury. *Reviews in the Neurosciences*, Ed. J. P. Huston, Freund Publishing House, Ltd., Duesseldorf, 2005

### **CURRENT OPERATING GRANTS:**

#### **Heart and Stroke Foundation of Ontario**

*Title: Cardiovascular control after spinal cord injury*

Principal Investigator: Lynne C. Weaver

Period: July 1, 2000 - June 30, 2004

Amount: \$366,166

#### **Ontario Neurotrauma Foundation**

*Title: Mechanisms for pain after spinal cord injury*

Principal Investigator: Lynne C. Weaver

Period: July 1, 2001 – June 30, 2004

Amount: \$240,000

#### **Canadian Institutes of Health Research**

New Emerging Team Grant

*Title: Spinal cord injury: discovery and development of rescue and repair strategies*

Principal Applicant: Lynne C. Weaver

Period: July 1, 2003-June 30, 2008

Amount: \$1,035,000

*Title: Mechanisms for autonomic dysreflexia after spinal cord injury*

Principal Applicant: Lynne C. Weaver

Period: July 1, 2001-June 31, 2005

Amount: \$393,979

*Title: Mechanisms for autonomic dysreflexia after spinal cord injury*

Principal Applicant: Lynne C. Weaver

Period: July 2002-June 2003

Lynne C. Weaver  
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Amount: \$116,102 (Equipment grant)

**International Spinal Research Trust**

*Title: Early neuroprotection against inflammation and NGF leads to improved motor, sensory and autonomic outcomes*

Principal Applicant: Daniel Marsh

Period: Sept 1, 2003-August 31, 2005

Amount: \$166,000

*(Revised May 20, 2005)*