

# **LEO PHILIP RENAUD BA, MD, PhD, FRCPC, FRSC**

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## **EDUCATION**

BA	1961	Arts Premed	University of Ottawa
MD	1965	Medicine	University of Ottawa
PhD	1972	Physiology	McGill University
FRCPC	1978	Medical Scientist	Royal College, Ottawa

## **AWARDS**

1961	B.A. (Dean's Honour List)	University of Ottawa
1962-64	Undergraduate Summer Research Award	Medical Research Council (MRC)
1965	M.D. (Silver Medal)	University of Ottawa
1967-70	Fellowship	MRC
1972	Ph.D. (Dean's Honour List)	McGill University
1973-77	Scholarship	MRC
1978-86	Chercheur-Boursier (salary awards)	FRSQ
1984	Medal in Medicine	Royal College, P&S, Ottawa
1990-94	Senior Scientist	MRC
1995-2000	Distinguished Scientist (salary award)	MRC
1997	Basic Science Award	Ottawa-Carleton Life Sci Council
1998	Sarrazin Lecturer	Canadian Physiological Society
2000	Fellow (FRSC)	Royal Society of Canada
2001	J David Grimes Career Achievement award	Ottawa Hospital Foundation
2002	Career Achievement award	Ottawa Life Sciences Council
2003	Award of Excellence	Univ of Ottawa Faculty of Medicine
2005	Distinguished Scientist award	Can Soc Clin Investigation
2005	Biomedical Science Ambassador award	FCIHR; Partners in Research
2005	U of O Alumni	Faculty of Medicine, U of Ottawa
2005-2010	J David Grimes University Chair	CIHR, UO, OHRI, GSK

## **MEDICAL CERTIFICATION**

1966	LMCC
1967	Quebec College of Physicians & Surgeons 67-343
1973	EEG Certificate Quebec College of Physicians and Surgeons
1978	Medical Scientist Royal College of Physicians & Surgeons
1990	Ontario College of Physicians & Surgeons

## **APPOINTMENTS**

**(a) Hospital**

1973-1976	Assistant Physician	Montreal General Hospital
1973-1983	Consultant,	EEG Centre Hospitalier Cote des Neiges
1973-1990	Director, EEG	Montreal General Hospital
1975-1990	Consultant, EEG	Lakeshore General Hospital
1976-1990	Associate Physician	Montreal General Hospital
1990-1998	Director, Neurology Division	Ottawa Civic Hospital

**(b) University**

1973-1976	Assistant Professor	McGill University
1976-1981	Associate Professor	McGill University
1981-1990	Professor	McGill University
June 1990	Professor, Med/Neurology	University of Ottawa
2008	Professor Emeritus	University of Ottawa

**ADMINISTRATION**

**(a) Hospital / Ottawa Health Research Institute (OHRI)**

Member, Montreal General Hosp. Research Institute Advisory Committee (1979-1980).  
Associate Director, Loeb Research Institute, Ottawa Civic Hospital (1990-1998).  
Deputy Director of Research - Ottawa Civic Hospital (Sept 1991 - June 1992)  
Member, Steering Committee - Heart Institute (Sept 1991 - June 1992)  
Member, Strategic Planning Committee Ottawa Civic Hospital (1991-1992)  
Director, Loeb Research Institute Neuroscience Program (1990-1998)  
Chairman, Loeb Institute Scientist Credentials & Recruitment Committee (1990-2000).  
OCH Loeb Research Advisory Committee, Member, (1990-1998)  
Loeb Institute Operations Committee, Member (1990-1998)  
*Senior Scientist & Associate Director, OHRI (2001-date)*  
*Chairman, OHRI Scientist Review Committee (2001-date)*  
Cochair, OH Foundation OHRI Fundraising Campaign (2003)

**(b) University:**

Member, McGill, Dept Neurol & Neurosurgery , Advisory Committee (1979-1990).  
Member, McGill, Dept of Neurology & Neurosurgery , Graduate Studies Comm (1984-1990).  
Member, Search Committee, Director of McGill Cancer Research Center (1984-1987).  
Chairman, Cyclic Review Committee for McGill Dept of Endo & Metabolism (1985).  
Member, McGill Faculty Tenure Committee (1987-1990).  
Member, Executive Comm, McGill Div. Exptl Med, Dept. Medicine (1987-1990).  
Member, Univ of Ottawa Neurology Training Program (1990-1998)  
Member, Univ of Ottawa Fac Med Neuroscience Council (1995-1998)  
Member, Univ of Ottawa Heart Institute Steering Committee (1993-4)  
Member, Univ of Ottawa Neurosurgery Chair Selection Committee (1995-96)  
Member, Faculty Research Advisory Committee (2002-2008)  
Member, Dept of Medicine Teaching Personnel Committee (2000-2009)  
Director (formerly Deputy Chair) Research, Dept of Medicine (2000-2009)  
President, University Medical Associates Research Corp, Dept of Medicine (2000-2010)  
*Chair, U of O Institute for Mental Health Research, Research Committee (2008-date)*

**(C) Extra -University:**

MRC Committees: Member of Endocrinology (1976-1981), Scholarships (1986-1989), Group Grants (1990-1992), Advisory Committee on Programs (1993), Neurosciences “A” (1993-1994), Member and Chair (1995-1997); MRC Regional Director (1996-2001)

CIHR Committees: Canada Research Chairs, External Reviewer (2000-date); Neuroscience Advisory Committee selection (2000); Member, Senior Investigator Committee (2000-2001); Member, Training Programs Committee (2001); Member, EJLB-CIHR Michael Smith Chair in Neurosciences & Mental Health Committee (2002); Neuroscience B (2007), Member.

FRSQ Committee Member Chercheur Boursier (1985-1987).

Heart and Stroke Committees: Member of Fellowships (1992), Committee IV, Scientific Review Member (1995) and Chair (1996-1997).

Alberta Heritage Foundation for Medical Research Senior Scientist Renewal Committee, Member (1993-1996)

The ELJB Foundation Scholar Research Programme, Member (1996)

The Parkinsons Society Foundation Grants Committee Member (1992)

Royal College of Physicians and Surgeons Research Committee (1985 - 1990)

IUPS '86 Organizing Committee

Montreal Neuroscience Society Chapter: President elect (1984), President (1985-87).

Canadian Association for Neuroscience: President (1991)

Canadian Physiological Society: Councillor (1984-1987), Nominating Committee (1987-1988). Auditor (1988-1990), President (1992)

Member, Medical Advisory Council, Parkinson's Society of Ottawa-Carleton

Strategic Planning, University of Ottawa, Academic Progs & Research Development`

Editorial Boards: Receiving Editor, Journal of Neuroendocrinology (1988 to 1996); Associate Editor, J. Neuropsychiatry and Neurosci. (1990-2000); Board Member: Neuropeptides (1980 to 1996); Amer. J. Physiol. (1990-1994); Regulatory Peptides (1991-1994); Neuroscience (1993-1999)

## **SUPERVISION**

### **1) Graduate Students**

Howard Blume	1978-1980	Ph.D.	1984
Maria Cirino	1980-1982	M.Sc.	1984
Salvatore Sgro	1980-1982	M.Sc.	1984
Charles Bourque	1980-1984	Ph.D.	1984
John Randle	1981-1985	Ph.D.	1985
Roguelio Mosqueda	1983 (4 months)	Ph.D.	(Pharmacology)
Jack Jhamandas	1984-1987	Ph.D.	1988
Wilfred Raby	1985-1990	Ph.D.	1990
Ralph Nissen	1986-1992	Ph.D.	1992
Catherine Jarvis	1987-1994	Ph.D.	1994
Chunwei Huang	1988-1994	M.Sc.	1994
Jennifer Wilson	1999- 2002	PhD.	2002
Xiaoyan Cao	2003-2006	MSc	2006
Ross Mantle	2000- 2007	PhD	Withdrew

## 2) **Fellows**

Quentin Pittman	1978-1980	MRC
Yvon Lamour	1979-1980	INSERM
Barry Layton	1979-1982	NIMH
Trevor Day	1981-1984	MRC
Alastair Ferguson	1982-1984	Alberta Heritage
Charles Yang	1988-to date	FCAR
Tom Cunningham	1988-1992	NIMH, Heart & Stroke Foundation
Margaret Sullivan	1988-1992	MRC
Andrew Allen	1990-1991	Australia National Heart Foundation
Michael Hermes	1991-1995	Human Frontiers, Heart & Stroke Fdn
Sheila Johnston	1991-1992	MRC
Vance Trudeau	1992-1993	Alberta Heritage
David Spanswick	1992-1994	Heart & Stroke
Donglin Bai	1994-1997	Heart & Stroke
<i>Miloslav Kolaj</i>	<i>1994-date</i>	Heart & Stroke
Daliang Wang	1997-1999	
Lu-Ning Cui	1997-2001	Heart & Stroke
Michael Hermes	1997	Human Frontiers Neurosci
Murat Oz	1998-2000	
Trevor Richter	2004-2006	
<i>Li Zhang</i>	<i>2003-date</i>	
Yan Galig	2007	
<i>Michael Hermes</i>	<i>2007-date</i>	

## **SALARY AWARDS**

1973-1977	Scholarship	MRC
1978-1986	Chercheur-Boursier	FRSQ
1990-1995	Senior Scientist	MRC
1995-2000	Distinguished Scientist	MRC
2005-2010	<i>J David Grimes Chair</i>	<i>OHRI, CIHR, UofO, GSK</i>

## **CURRENT (RECENT) OPERATING GRANTS**

### CIHR

2005-10 <i>Hypothalamic neuroregulatory mechanisms</i>	\$639,445
2005-10 <i>Converging circadian &amp; arousal signaling</i>	\$766,715
2009-14 <i>Spinal preganglionic neurons &amp; nitric oxide</i>	\$718,615

### (HEART & STROKE FDN)

2005-2008 <i>Suprachiasmatic nucleus efferents</i>	\$179,692
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## **CURRENT TEACHING COMMITMENTS**

CMM: 8105 Molecular Biology of the Neuron: 3 hrs  
CMM: 5311: Cellular & Molecular Control Systems: 6hrs  
CMM: NSC 5104: Introduction to Neural Systems: 9 hrs

## REFEREED PUBLICATIONS

1. **MURPHY, J.T. AND RENAUD, L.P.** Inhibitory interneurons in the ventromedial nucleus of the hypothalamus. *Brain Res.* 9: 385-389, 1968.
2. **MURPHY, J.T. AND RENAUD, L.P.** Mechanisms of inhibition in the ventromedial nucleus of the hypothalamus. *J. Neurophysiol.* 32: 85-102, 1969.
3. **KRNJEVIC, K., PUMAIN, R. AND RENAUD, L.** Excitation of cortical cells by barium. *J. Physiol* 211: 43-44, 1970.
4. **KRNJEVIC, K., PUMAIN, R. AND RENAUD, L.** Effects of  $Ba^{2+}$  and tetraethyl-ammonium on cortical neurons. *J. Physiol.* 215: 223-245, 1971.
5. **KRNJEVIC, K., PUMAIN, R. AND RENAUD, L.** The mechanisms of excitation by acetylcholine in the cerebral cortex. *J. Physiol.* 215: 247-268, 1971.
6. **KELLY, J.S. AND RENAUD, L.P.** Postsynaptic inhibition in the cuneate blocked by GABA antagonist. *Nature New Biol.* 232: 25-26, 1971.
7. **GOTTESFELD, Z., KELLY, J.S. AND RENAUD, L.P.** The in-vivo neuropharmacology of amino-oxyacetic acid in the cerebral cortex of the cat. *Brain Res.* 42: 319-335, 1972.
8. **RENAUD, L.** Inhibitory mechanisms in the cerebral cortex. Ph.D. Thesis, McGill University, 1972.
9. **KELLY, J.S. AND RENAUD, L.P.** On the pharmacology of GABA receptors on the cuneothalamic relay cells of the cat. *Brit. J. Pharmacol.* 48: 369-386, 1973.
10. **KELLY, J.S. AND RENAUD, L.P.** On the pharmacology of glycine receptors on the cuneothalamic relay cells of the cat. *Brit. J. Pharmacol.* 48: 387-395, 1973.
11. **KELLY, J.S. AND RENAUD, L.P.** On the pharmacology of ascending, descending and recurrent postsynaptic inhibition on the cuneothalamic relay cells in the cat. *Brit. J. Pharmacol.* 48: 396-408, 1973.
12. **RENAUD, L.P. AND KELLY, J.S.** Identification of possible inhibitory neurons in the pericruciate cortex of the cat. *Brain Res.* 79: 9-28, 1974.
13. **RENAUD, L.P. AND KELLY, J.S.** Simultaneous recordings from peri- cruciate pyramidal tract and non-pyramidal tract neurons: response to stimulation of inhibitory pathways. *Brain Res.* 79: 29-44, 1974.
14. **KELLY, J.S. AND RENAUD, L.P.** Physiological identification of inhibitory interneurons in the feline pericruciate cortex. *Neuropharmacology* 13: 463-474, 1974.
15. **RENAUD, L.P., KELLY, J.S. AND PROVINI, L.** Synaptic inhibition in pyramidal tract neurons: membrane potential and conductance changes evoked by pyramidal tract and cortical surface stimulation. *J. Neurophysiol.* 37: 1144-1155, 1974.
16. **MARTIN, J.B., RENAUD, L.P. AND BRAZEAU, P. Jr.** Pulsatile growth hormone secretion: suppression by hypothalamic ventromedial lesions and by long-acting somatostatin. *Science* 186: 538-540, 1974.
17. **RENAUD, L.P. AND MARTIN, J.B.** Thyrotropin releasing hormone (TRH): Depressant action on central neuronal activity. *Brain Res.* 86: 150-154, 1975.
18. **RENAUD, L.P., MARTIN, J.B. AND BRAZEAU, P.** Depressant action of TRH, LH-RH and somatostatin on activity of central neurons. *Nature* 255: 233-235, 1975.
19. **RENAUD, L.P. AND MARTIN, J.B.** Electrophysiological studies of connections of hypothalamic ventromedial nucleus neurons in the rat: Evidence for a role in neuroendocrine regulation. *Brain Res.* 93: 145-151, 1975.

- 20. RENAUD, L.P.** An electrophysiological study of amygdalo-hypothalamic projections to the ventromedial nucleus of the rat. *Brain Res.* 105: 45-58, 1976.
- 21. RENAUD, L.P.** Tuberoinfundibular neurons in the basomedial hypothalamus of the rat: Electrophysiological evidence for axon collaterals to hypothalamic and extrahypothalamic areas. *Brain Res.* 105: 59-72, 1976.
- 22. WILLOUGHBY, J.O., MARTIN, J.B., RENAUD, L.P. AND BRAZEAU, P.** Pulsatile growth hormone release in the rat: Failure to demonstrate a correlation with sleep phases. *Endocrinology* 98: 593-598, 1976.
- 23. RENAUD, L.P.** Influence of amygdala stimulation on the activity of identified tuberoinfundibular neurones in the rat hypothalamus. *J. Physiol.* 260: 237-252, 1976.
- 24. RENAUD, L.P., MARTIN, J.B. AND BRAZEAU, P.** Hypothalamic releasing factors: Physiological evidence for a regulatory action on central neurons and pathways for their distribution in brain. *Pharmac. Biochem. Behav.* 5: Suppl. 1, 171-178, 1976.
- 25. RENAUD, L.P.** Histamine microiontophoresis on identified hypothalamic neurons: Three patterns of response in the ventromedial nucleus of the rat. *Brain Res.* 115:339-344, 1976.
- 26. RENAUD, L.P. AND HOPKINS, D.A.** Amygdala afferents from the medio-basal hypothalamus: An electrophysiological and neuroanatomical study in the rat. *Brain Res.* 121:201-213, 1977.
- 27. RENAUD, L.P.** Influence of medial preoptic-anterior hypothalamic area stimulation on the excitability of mediobasal hypothalamic neurones in the rat. *J. Physiol.* 264: 541-564, 1977.
- 28. TAN, A.T., TSANG, D., RENAUD, L.P. AND MARTIN, J.B.** Effect of somatostatin on calcium transport in guinea pig cortex synaptosomes. *Brain Res.* 123: 193-196, 1977.
- 29. BLUME, H.W., PITTMAN, Q.J. AND RENAUD, L.P.** Electrophysiological indications of a 'vasopressinergic' innervation of the median eminence. *Brain Res.* 155: 153-158, 1978.
- 30. PITTMAN, Q.J., BLUME, H.W. AND RENAUD, L.P.** Electrophysiological indications that individual hypothalamic neurons innervate both median eminence and neurohypophysis. *Brain Res.* 157: 364-368, 1978.
- 31. RENAUD, L.P., BLUME, H.W., PITTMAN, Q.J., LAMOUR, Y. AND TAN, A.T.** Thyrotropin releasing hormone (TRH) selectively depresses glutamate excitation of cerebral cortical neurons. *Science* 205: 1275-1277, 1979.
- 32. PITTMAN, Q.J., BLUME, H.W., KEARNEY, R.E. AND RENAUD, L.P.** Influence of midbrain stimulation on the excitability of neurons in the medial hypothalamus of the rat. *Brain Res.* 174:39-53, 1979.
- 33. BLUME, H.W., LAMOUR, Y., ARNAULD, E., LAYTON, B.S. AND RENAUD, L.P.** Sodium di-n-propylacetate (valproate) action on single neurons in rat cerebral cortex and hippocampus. *Brain Res.* 171: 182-185, 1979.
- 34. BLUME, H.W., PITTMAN, Q.J. AND RENAUD, L.P.** Sensitivity of identified medial hypothalamic neurons to GABA, glycine and related amino acids; influence of bicuculline, picrotoxin and strychnine on synaptic inhibition. *Brain Res.* 209: 145-158, 1981.
- 35. PITTMAN, Q.J., BLUME, H.W. AND RENAUD, L.P.** Connections of the hypothalamic paraventricular nucleus with the neurohypophysis, median eminence, amygdala, lateral septum and midbrain periaqueductal gray: an electrophysiological study in the rat. *Brain Res.* 215: 15-28, 1981.
- 36. RENAUD, L.P.** A neurophysiological approach to the identification, connections and pharmacology of the hypothalamic tuberoinfundibular system. *Neuroendocrinology* 33: 186-191, 1981.

- 37. LAYTON, B.S., LAFONTAINE, S. AND RENAUD, L.P.** Connections of medial preoptic neurons with the median eminence and amygdala. An electrophysiological study in the rat. *Neuroendocrinology* 33: 235-240, 1981.
- 38. BOUILLE, C., LAYTON, B.S. AND RENAUD, L.P.** Influence of dorsal hippocampus stimulation on the excitability of medial hypothalamic neurons in the rat. *Neuroendocrinology* 33: 221-327, 1981.
- 39. BLUME, H.W., PITTMAN, Q.J., LAFONTAINE, S. AND RENAUD, L.** Lateral septum-medial hypothalamic connections: An electrophysiological study in the rat. *Neuroscience* 7: 2783-2792, 1982.
- 40. BOURQUE, C.W. AND RENAUD, L.P.** In-vitro neurophysiology of identified rat hypothalamic 'neuroendocrine' neurons. *Neuroendocrinology* 36: 161-164, 1983.
- 41. BOURQUE, C.W. AND RENAUD, L.P.** A perfused in-vitro preparation of hypothalamus for electrophysiological studies on neuro-secretory neurons. *J. Neurosci. Methods* 7: 203-214, 1983.
- 42. ARNAULD, E., CIRINO, M., LAYTON, B.S. AND RENAUD, L.P.** Contrasting actions of amino acids, acetylcholine, noradrenaline and leucine enkephalin on the excitability of supraoptic vasopressin-secreting neurons: a microiontophoretic study in the rat. *Neuroendocrinology* 36: 187-196, 1983.
- 43. ARNAULD, E., LAYTON, B.S., PADJEN, A.L. AND RENAUD, L.P.** Actions of acidic amino acids on the excitability of medial hypothalamic neurons in the rat. *Neuroendocrinology* 37: 184-192, 1983.
- 44. RENAUD, L.P., ROGERS, J. AND SGRO, S.** Terminal degeneration in supraoptic nucleus following subfornical organ lesions: ultrastructural observations in the rat. *Brain Res.* 275: 365-368, 1983.
- 45. DAY, T.A., RO, A. AND RENAUD, L.P.** Depressor area within caudal ventrolateral medulla of the rat does not correspond to the A1 catechol amine cell group. *Brain Res.* 279:299-302, 1983.
- 46. BOURQUE, C.W. AND RENAUD, L.P.** Activity patterns and osmosensitivity of rat supraoptic nucleus neurosecretory neurons in perfused hypothalamic explants. *J. Physiol.* 349: 631-642, 1984.
- 47. DAY, T.A. AND RENAUD, L.P.** Electrophysiological evidence that noradrenergic afferents selectively facilitate the activity of supraoptic vasopressin neurons. *Brain Res.* 303: 233-240, 1984.
- 48. SGRO, S., FERGUSON, A.V. AND RENAUD, L.P.** Subfornical organ-supraoptic nucleus connections: an electrophysiologic study in the rat. *Brain Res.* 303: 7-13, 1984.
- 49. RENAUD, L.P., DAY, T.A. AND FERGUSON, A.V.** CNS regulation of reproduction: Peptidergic mechanisms. *Brain Res. Bull.* 12: 181-186, 1984.
- 50. FERGUSON, A.V., DAY, T.A. AND RENAUD, L.P.** Connections of hypothalamic paraventricular neurons with the dorsal medial thalamus and neurohypophysis: an electrophysiological study in the rat. *Brain Res.* 299: 376-379, 1984.
- 51. FERGUSON, A.V. AND RENAUD, L.P.** Hypothalamic paraventricular nucleus lesions decrease pressor responses to subfornical organ stimulation. *Brain Res.* 305: 361-364, 1984.
- 52. FERGUSON, A.V., DAY, T.A. AND RENAUD, L.P.** Subfornical organ efferents influence the excitability of neurohypophyseal and tuberoinfundibular paraventricular nucleus neurons in the rat. *Neuroendocrinology* 39: 423-428, 1984.

- 53. RANDLE, J.C.R., BOURQUE, C.W. AND RENAUD, L.P.** -adrenergic activation of rat hypothalamic supraoptic neurons maintained in-vitro. *Brain Res.* 307: 374-378, 1984.
- 54. DAY, T.A., FERGUSON, A.V. AND RENAUD, L.P.** Facilitatory influence of noradrenergic afferents on the excitability of rat paraventricular nucleus neurosecretory cells. *J. Physiol.* 355: 237-249, 1984.
- 55. FERGUSON, A.V., DAY, T.A. AND RENAUD, L.P.** Subfornical organ stimulation excites paraventricular neurons projecting to the dorsal medulla. *Amer. J. Physiol.* 247: R1088-R1092, 1984.
- 56. CIRINO, M. AND RENAUD, L.P.** Influence of lateral septum and amygdala stimulation on the excitability of hypothalamic supraoptic neurons. An electrophysiological study in the rat. *Brain Res.* 326: 357-361, 1985.
- 57. BOURQUE, C.W. AND RENAUD, L.P.** Calcium dependent action potentials in rat supraoptic neurons recorded in-vitro. *J. Physiol.* 363:419-428, 1985.
- 58. BOURQUE, C.W. AND RENAUD, L.P.** Activity dependence of action potential duration in rat supraoptic neurosecretory neurons recorded in-vitro. *J. Physiol.* 363: 429-439, 1985.
- 59. RENAUD, L.P.** Hypothalamic peptidergic neurons: a haven for in-vivo and in-vitro exploration. *IBRO News* 12: 5-9, 1985.
- 60. DAY, T.A., RANDLE, J.C.R. AND RENAUD, L.P.** Opposing alpha- and beta-adrenergic mechanisms mediate actions of noradrenaline on supraoptic vasopressin neurones. *Brain Res.* 358: 171-179, 1985.
- 61. FERGUSON, A.V., BOURQUE, C.W. AND RENAUD, L.P.** Subfornical organ and supraoptic nucleus connections with septal neurons in rats. *Amer. J. Physiol.* 249: R214-R218, 1985.
- 62. RENAUD, L.P., FERGUSON, A.V., DAY, T.A., BOURQUE, C.W. AND SGRO, S.** Electrophysiology of the subfornical organ and its hypothalamic connections: an in-vivo study in the rat. *Brain Res. Bull.* 15: 83-86, 1985.
- 63. DAY, T., FERGUSON, A.V. AND RENAUD, L.P.** Noradrenergic afferents facilitate the activity of tuberoinfundibular neurons of the hypothalamic paraventricular nucleus. *Neuroendocrinology* 41: 17-22 1985.
- 64. BOURQUE, C.W., RANDLE, J.C.R. AND RENAUD, L.P.** Calcium-dependent potassium conductance in rat supraoptic nucleus neurosecretory neurons. *J. Neurophysiol.* 54: 1375-1382, 1985.
- 65. DAY, T.A., JHAMANDAS, J. AND RENAUD, L.P.** Comparison between the actions of avian pancreatic polypeptide, neuropeptide Y and norepinephrine on the excitability of rat supraoptic vasopressin neurons. *Neuroscience Lett.* 62: 181-185, 1985.
- 66. VAN HOUTEN, M., KHAN, M.N., WALSH, R.J., BAQUIRAN, G.B., RENAUD, L.P., BOURQUE, C.W., SGRO, S., GAUTHIER, S., CHRETIEN, M. AND POSNER, B.I.** NH-terminal specificity and axonal localization of adrenocorticotropin binding sites in rat median eminence. *Proc. Natl. Acad. Sci. USA* 82:1271-1275, 1985.
- 67. RANDLE, J.C.R., BOURQUE, C.W. AND RENAUD, L.P.** Serial reconstruction of Lucifer yellow labeled supraoptic nucleus neurons in perfused hypothalamic explants. *Neuroscience* 17: 453-467, 1986.
- 68. BOURQUE, C.W. RANDLE, J.C.R. AND RENAUD, L.P.** Non-synaptic depolarizing potentials in rat supraoptic neurones recorded in vitro. *J. Physiol.* 376: 493-505, 1986.

- 69. BOURQUE, C.W., BROWN, D.A. AND RENAUD, L.P.** Ba<sup>++</sup> ions induce prolonged plateau depolarizations in neurosecretory neurones of the adult rat supraoptic nucleus. *J. Physiol.* 375: 573-586, 1986.
- 70. JHAMANDAS, J. AND RENAUD, L.P.** Diagonal band neurons may mediate arterial baroreceptor input to hypothalamic vasopressin-secreting neurons. *Neuroscience Lett.* 65: 214-218, 1986.
- 71. RANDLE, J.C.R., MAZUREK, M., KNEIFEL, D., DUFRESNE, J. AND RENAUD, L.P.** Alpha-1 adrenergic receptor activation releases vasopressin and oxytocin from perfused rat hypothalamic explants. *Neuroscience Lett.* 65: 219-223, 1986.
- 72. FERGUSON, A.V. AND RENAUD, L.P.** Systemic angiotensin acts at subfornical organ to facilitate activity of neurohypophysial neurons. *Amer. J. Physiol.* 251: R712-R717, 1986.
- 73. RANDLE, J.C.R., BOURQUE, C.W. AND RENAUD, L.P.** α<sub>1</sub> adrenergic receptor activation depolarizes rat supraoptic nucleus neurosecretory neurons in vitro. *Amer. J. Physiol.* 251: R569-R574, 1986.
- 74. JHAMANDAS, J. AND RENAUD, L.P.** A gamma-aminobutyric-acid-mediated baroreceptor input to supraoptic vasopressin neurones in the rat. *J. Physiol.* 381: 595-606, 1986.
- 75. RANDLE, J.C.R., DAY, T.A., JHAMANDAS, J., BOURQUE, C.W. AND RENAUD, L.P.** Neuropharmacology of supraoptic nucleus neurons: norepinephrine and γ-aminobutyric acid receptors. *Fed. Proc.* 45: 2312-2317, 1986.
- 76. RANDLE, J.C.R., BOURQUE, C.W. AND RENAUD, L.P.** Characterization of spontaneous and evoked inhibitory postsynaptic potentials in rat supraoptic neurosecretory neurons in vitro. *J. Neurophysiol.* 56:1703-1718, 1986.
- 77. RANDLE, J.C.R. AND RENAUD, L.P.** Actions of gamma-aminobutyric acid on rat supraoptic nucleus neurosecretory neurons in vitro. *J. Physiol.* 387: 629-647, 1987.
- 78. JHAMANDAS, J.H. AND RENAUD, L.P.** Neurophysiology of a central baroreceptor pathway projecting to hypothalamic vasopressin neurons. *Can. J. Neurol. Sci.* 14: 17-24, 1987.
- 79. SILVERMAN, A.J., JHAMANDAS, J.H. AND RENAUD, L.P.** Localization of luteinizing hormone releasing hormone (LHRH) neurons that project to the median eminence. *J. Neuroscience* 7: 2312-2319, 1987.
- 80. JHAMANDAS, J.H. AND RENAUD, L.P.** Bicuculline blocks an inhibitory baroreflex input to supraoptic vasopressin neurons. *Amer. J. Physiol.* 252: R947-R952, 1987.
- 81. RENAUD, L.P., TANG, M., McCANN, M.J., STRICKER, E.M. AND VERBALIS, J.G.** Cholecystikinin and gastric distention activate oxytocinergic cells in rat hypothalamus. *Amer. J. Physiol.* 253: R661-R665, 1987.
- 82. RENAUD, L.P.** Magnocellular neuroendocrine neurons: update on intrinsic properties, synaptic inputs and neuropharmacology. *TINS* 10:498-502, 1987.
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