

BIOGRAPHICAL SKETCH

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NAME Chaban, Victor	POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME CHABAN			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Franko National University, Ukraine	M.Sci.	1990	Physiology
Bogomoletz Institute, Ukrainian Acad. Sci., Kiev	Ph.D.	1994	Physiology
University of California, Los Angeles	postdoc	2000	Neuroscience

A. Positions and Honors.

Positions and Employment

1994 - 1996 Adjunct Researcher, Nencki Institute of Experimental Biology, Polish Acad. Sci., Warsaw
1996 - 2000 Postgraduate Researcher, Departments of Neurobiology, Physiology and Medicine; UCLA
2001 - 2005 Assistant Researcher, Department of Neurobiology, UCLA, Los Angeles, CA
2005- Assistant Professor, Charles R. Drew University of Medicine and Science, Los Angeles, CA

Other Experience and Professional Memberships

1996 - Member, Southern California Society for Microscopy and Microanalysis
2002- Member, Society for Neuroscience
2003 - Member, UCLA Center for Neurovisceral Science and Women Health
2004- Member, Society for Women's Health Research

Honors

1994 European Science Foundation Fellowship, Polish Academy of Sciences.
1995 Wood -Whellan Award, Int. Union of Biochemistry & Molecular Biology
1996 UNESCO Global Network of Cell and Molecular Biology Fellowship

B. Selected peer-reviewed publications (in chronological order).

1. Goida E., Chaban V., Medina I. Electrophysiological parameters of ion-transporting system in the early developmental stages of fish and amphibian. *Physiological Journal* (Kiev) 1992, 38:102-105.
2. Bregestowsky P., Medina I., Goida E, Chaban V. Role of cytoskeleton in the regulation of cyclic changes of electric parameters of *Misgurnus fossilis* embryonic membrane. *Ontogenesis* 1993, 3:81-91.
3. Baranska J., Chaban V., Czarny M., Sabala P. Changes in $[Ca^{2+}]_i$ concentration in phorbol ester and thapsigargin treated glioma C6 cells. The role of protein kinase C in regulation of Ca^{2+} entry. *Cell Calcium* 1995, 17: 207-215.
4. Sabala P., Wiktorek M., Czarny M., Chaban V., Baranska J. Sphingosine stimulates Ca^{2+} mobilization and modulates Ca^{2+} signals, evoked by thapsigargin in glioma C6 cells. *Acta Neurobiologiae, Experimentalis* 1996, 56: 507-513.
18: 602-610.

Principal Investigator/Program Director (Last, First, Middle):

5. Felix J., Chaban V., Woodruff M., Dirksen E. Mechanical stimulation initiates intercellular Ca^{2+} signaling in intact tracheal epithelium maintained under normal gravity and simulated microgravity. *American Journal of Respiratory Cell Molecular Biology*, 1998.
6. Young S.H., Ennes H.S., McRoberts J.A., Chaban V.V., Dea S.K., Mayer E.A. Calcium waves in colonic myocytes produced by mechanical and receptor-mediated stimulation. *American Journal of Physiology*, 1999, 276 (5 Pt. 1), G: 1204-G:1212.
7. Woodruff M., Chaban V., Worley C., Dirksen E. PK C role in mechanically – induced Ca^{2+} - waves and ATP- induced Ca^{2+} oscillations in airway epithelial cells. *American Journal of Physiology*, 1999, 276, (4) Pt.1, L: 669- L: 678.
8. Gschossmann J., Chaban V., McRoberts J., Raybould H., Ennes H, Lembo T, Mayer E. Mechanical activation of dorsal root ganglion cells in vitro: comparison with capsaicin and modulation by kappa-opioids, *Brain Research*, 2000, 856, (1-2), 101-110.
9. McRoberts J., Coninho S., Marvizon J.C., Grady EF, Tognetto M, Sengupta JN, Ennes HS, Chaban VV, Amadesi S, Creminon C, Lanthorn T, Geppetti P, Bunnnett.,Mayer E. Role of peripheral NMDA receptors in visceral nociception in rats *Gastroenterology*, 2001, 120 (7): 1737-1748.
10. Chaban V., McRoberts J., Ennes H., Mayer E.A. Nitric oxide syntase inhibitors enhance the mechanosensitive Ca^{2+} influx in cultured DRG neurons *Brain Research*, 2001, 903 (1-2): 74-85.
11. Micevych P., Chaban V., Quesada A., Sinchak K. Estrogen modulates CCK-opioid interactions in the nervous system *Pharmacology and Toxicology* 2002, 91, 387-397.
12. Chaban V., Mayer E., Ennes H., Micevych P. Estradiol inhibits ATP-induced $[Ca^{2+}]_i$ increase in DRG neurons *Neuroscience* 2003, 118 (6), 941-948.
13. Chaban V., Lakher A., Micevych P. A membrane estrogen receptor mediates intracellular calcium release in astrocytes. *Endocrinology* 2004, 145 (8): 3788-3795.
14. Chaban V., Li, J., Ennes H., Nie J., Mayer E., McRoberts J. N-methyl D-aspartate (NMDA) receptors enhance mechanical responses and voltage-dependent Ca^{2+} channels in rat DRG neurons through protein kinase C *Neuroscience* 2004, 128, 347-357.
15. Chaban V and Micevych P. Estrogen receptor- α mediates estradiol attenuation of ATP-induced Ca^{2+} signaling in dorsal root ganglion neurons. *Journal of Neuroscience Research* 2005, 81(1): 31-37.
16. Micevych P., Chaban V., Ogi J., Sinchak K. Estrogen induced progesterone synthesis in hypothalamic astrocytes *Journal of Neuroscience* (submitted).

Papers presented at professional meeting (selected):

17. Chaban V., Goida E., Sanagorski D. Influence of adrenalin on the membrane potential changes in developing *Misgurnus Fossilis* embryo and the role of cytoskeleton in this process. Mat of 7th Int. Catecholamine Symposium, 1992, Amsterdam, P. 47.
18. Chaban V., Goida E., Medina I. Effect of growth factors on membrane conductivity of embryonic cells. Mat. 7th Conf. of Int. Society of Differentiation “Cellular Programs for Growth, Differentiation and Neoplasia”, 1992, Helsinki, P. 28.

19. Chaban V. Role of second messengers in electrophysiological processes in embryonic cells. Mat. Int. Symp. "Role of Cell Adhesion Molecules in Immunopathology", 1993, Warsaw, P.16.
20. Chaban V. and Goida E. Influence of cAMP and Ca^{2+} on membrane potential and ion conductivity of developing embryo. Mat. 12th School of Biophysics of Membrane Transport, 1994, Krakow, P.141.
21. Chaban V. and Goida E. Membrane-dependent processes in early embryonic development. Mat. 9th Conf. of International Society of Differentiation, 1994, Kobe, P.347.
22. Chaban V, Bunting R, Mason W. Effect of sphingosine and TPA on the changes in $[Ca^{2+}]_i$ in neuroblastoma SH-SY5Y and glioma C6 cells. *Molecular Biology of the Cell* 1995, 6: 383.
23. Chaban V., Sabala P., Baranska J. Changes in $[Ca^{2+}]_i$ in phorbol-treated glioma C6 cells. *Biologicals* 1996, 9: 211.
24. Felix J., Chaban V., Dirksen E. Mechanical stimulation initiates intracellular calcium signaling in tracheal epithelium maintained under normal and simulated microgravity. *FASEB Journal*, 1997, 11(3): 1795.
25. Chaban V, Popper P, Micevych P. Subcellular localization of δ - opiate receptor immunoreactivity and binding in GT 1-7 cells. *Society for Neuroscience* 1997, 23:1977.
Woodruff M., Chaban V., Dirksen E. Ca^{2+} signaling in tracheal epithelial cells. *FASEB Journal*, 1998, 12 (5), A: 630.
26. Chaban V., Young S., Ennes H., McRoberts J., Mayer E.A. Evidence for modulation of mechanosensitivity by endogenous nitric oxide production in cultured mouse DRG neurons. *Gastroenterology*, 1999, 116, A: 1038.
27. Young SH, Ennes HS, Chaban V, Mayer E. Mechanosensitive calcium influx in interstitial cells of Cajal (ICC) from mouse intestine. *Gastroenterology* 1999; 116: G: 4510.
28. Chaban V., Ennes H., Mayer E.A. Evidence for functional k-opioid receptors on cultured mouse colonic interstitial cells of Cajal, *Gastroenterology*, 1999, 116, A:1038.
29. McRoberts J.A., Chaban V.V., Ennes H.S. and Mayer E.A. Expression of NMDA receptors on adult rat DRG neurons in primary culture *Gastroenterology*, 2000, 118 (4): 5465.
30. Chaban V., Ennes H., McRoberts J, Mayer E Nitric oxide synthase inhibitors enhance mechanosensitive Ca^{2+} influx in cultured DRG neurons *Gastroenterology*, 2000, 118: (4) A: 858-859.
31. McRoberts J.A., Chaban V.V., Ennes H.S., Wei J.Y. and Mayer E. Potentiation of mechanical responses by NMDA in DRG neurons and spinal afferents *Society for Neuroscience*, 2001.
32. Chaban V.V. and Micevych P.E. 17β -estradiol inhibition of ATP-induced $[Ca^{2+}]_i$ increase in cultured DRG neurons *Society for Neuroscience*, San Diego, 2001.
33. Chaban V., Sinchak K., Micevych P. 17β -estradiol stimulates calcium signaling in neonatal rats astrocytes *Society for Neuroscience*, Orlando, 2002.
34. Chaban V., Mayer E., Ennes H., Micevych P. Rapid effects of 17β -estradiol on ATP-induced Ca^{2+} signaling in cultured dorsal root ganglion neurons from Wt and ER α KO mice, Digestive Diseases Week -2003.

35. Chaban V., Rissmann E., Micevych P. Rapid effect of estradiol on $[Ca^{2+}]_i$ in DRG neurons requires estrogen receptor- α *Society for Neuroscience*, New Orleans, 2003.
36. Chaban V. & Micevych P. Estrogen modulation of DRG responses to nociceptive stimuli. Mat. Neuropeptide-2004 Symposium, Alicante, Spain, *Peptides* 2004.
37. Chaban V, Lakhter A., Micevych P. Estradiol rapidly induces intracellular Ca^{2+} levels through a membrane estrogen receptor in astrocytes, *Society for Neuroscience*, San Diego, 2004.
38. Chaban V. & Micevych P. Rapid effects of estradiol on Ca^{2+} signaling in DRG neurons, cortical and hypothalamic astrocytes. Mat. 4th Int. Meeting on Rapid Responses to Steroid Hormones, San Diego, 2005.
39. Chaban V., Lee E., McDonald J., Rapkin A., Micevych P. Rapid effect of estradiol on nociceptive signaling of viscerally-specific DRG neurons *Society for Neuroscience*, Washington DC, 2005.
40. Chaban V. & Micevych P. Estradiol modulates response of visceral DRG neurons to nociceptive stimuli. Mat. of Visceral Pain Satellite Symposium of the 2005 World Congress on Pain, Barossa Valley, South Australia.