

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Chaban, Victor		POSITION TITLE Associate Professor of Medicine and Health Sciences	
eRA COMMONS USER NAME (credential, e.g., agency login) Chaban			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Universitas Leopoliensis, Ukraine	B.S.(summa cum laude)	01/90	Physiology with minor in Biophysics
Bogomoletz Institute, Ukrainian Acad. Sci, Kiev	Ph.D.	02/94	Physiology
University of California, Los Angeles	postdoctoral	06/01	Neuroscience
Charles R. Drew University of Med & Science	M.S.	05/09	Clinical Research

**A. Personal Statement/ PI Objectives**

Dr. Chaban is a Director of CDU-NCRR Clinical and Translational Research Center “Accelerating Excellence in Translational Science” (AXIS). Dr. Chaban also is a member of Executive Board for the UCLA Graduate Training Program in Translational and Clinical Investigation. Dr. Chaban is an Associate Professor of Medicine at the Department of Medicine and Associate Professor of Health Sciences in the Department of Health and Life Sciences at Charles R. Drew University of Medicine and Science (CDU).

**B. Positions and Honors**Positions and Employment

1994- 1996 Researcher, Nencki Institute of Experimental Biology, Polish Acad. Sci., Warsaw  
 1996- 2000 Postgraduate Researcher, Departments of Physiology and Medicine; UCLA  
 2001- 2005 Assistant Research Neurobiologist, Department of Neurobiology, UCLA  
 2005- 2009 Assistant Professor of Biomedical Sciences, College of Science and Health, CDU  
 2005- 2007 Visiting Assistant Professor, Department of Neurobiology, UCLA  
 2009- Associate Professor of Medicine, College of Medicine, CDU  
 2010- Associate Professor of Health Sciences, Department of Health and Life Sciences, CDU  
 2011- Director, Clinical and Translational Research Center “Accelerating Excellence in Translational Science” (AXIS), CDU-NCRR

Other Professional Experience

2005- Member, UCLA Center for Neurovisceral Science and Women Health  
 2008- Editorial Board, Clinical Pharmacy, Pharmacotherapy and Medical Standardization  
 2010- Executive Board, UCLA Graduate Program in Translational and Clinical Research  
 2011- Editorial Board, Journal of Autacoids

Honors

1995 Wood- Whellan Award, International Union of Biochemistry & Molecular Biology  
 1996 UNESCO Global Network of Cell and Molecular Biology Fellowship  
 2001 Post-Doctoral Award, Winter Conference on Brain Research, Snowbird, UT  
 2004 Young Investigator Award, International Symposium Neuropeptide-2004, Alicante, Spain  
 2007 CRED Scholar Award, 2<sup>nd</sup> Multidisciplinary Conference in Clinical Research, San Juan, PR  
 2008 President’s Award for Excellence in Serving to the CDU  
 2009 Emerging Scientist Award, Life Sciences Institute, CDU

### C. Selected Peer-reviewed Publications

1. 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. PMID: 11382390
2. 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, Bunnett.,Mayer E. Role of peripheral NMDA receptors in visceral nociception in rats *Gastroenterology*, 2001, 120 (7): 1737-1748. PMID: 11375955
3. Micevych P., Chaban V., Quesada A., Sinchak K. Estrogen modulates CCK-opioid interactions in the nervous system *Pharmacology and Toxicology* 2002, 91, 387-397. PMID: 12688384
4. 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. PMID: 12732239
5. Chaban V., Lakher A., Micevych P. A membrane estrogen receptor mediates intracellular calcium release in astrocytes. *Endocrinology* 2004, 145 (8): 3788-3795. PMID: 15131017
6. 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. PMID: 15350646
7. Chaban V. and Micevych P. Estrogen receptor mediates estradiol attenuation of ATP-induced  $Ca^{2+}$  signaling in dorsal root ganglion neurons. *Journal of Neuroscience Research* 2005, 81(1): 31-37. PMID: 15952176
8. Micevych P., Chaban V., Ogi J., Sinchak K. Estrogen induced progesterone synthesis in hypothalamic astrocytes. *Endocrinology* 2007 148, 2, 782-789 PMID: 17095591
9. Chaban V., Christensen A., Wakamatsu M., McDonald M., Rapkin A., McDonald J., Micevych P. The same DRG neurons innervate uterus and colon in the rat. *Neuroreport* 2007, 18(3):209-12. PMID: 17314658
10. Chaban V. Visceral sensory neurons that innervate both uterus and colon express nociceptive TRPV1 and P2X3 receptors in rats. *Ethnicity and Disease* 2008 (18): Suppl 2, 20-24. PMID: 18646315
11. J. Li, J. McDonald, A. Rapkin, P. Micevych, V. Chaban Inflammation in the uterus induces pERK and Substance P activation in DRG neurons innervating both uterus and colon in rats. *Journal of Neuroscience Research* 2008, 86: 2746-2752 PMID: 18478547
12. Chaban V. Visceral sensory neurons that innervate both uterus and colon express nociceptive TRPV1 and P2X<sub>3</sub> receptors in rats. *Ethnicity & Disease*. 2008 Spring;18, (2):S2-20-4 PMID: 18646315
13. Chaban V. Peripheral sensitization of sensory neurons. *Ethnicity & Disease*. 2010, 20 (1):S1-3-6. PMID: 20521376
14. Chaban V., Li J., McDonald J., Rapkin A., Micevych P. Estradiol attenuates ATP-induced increase of intracellular calcium through group II metabotropic glutamate receptors in rat DRG neurons *Journal of Neuroscience Research* 2011 (in press).

Chapter in books:

15. Chaban V. Estrogen modulation of visceral nociception. In: "Neuroactive Steroids in Brain Function, and Mental Health: New Perspectives for Research and Treatment" (Ritzner and Weizman- eds), Springer 2008, p. 89-102.

16. Chaban V. Primary afferent nociceptors and visceral pain. In "Endometriosis", InTech, 2011 ISBN 978-953-307-7369.

## **D. Research Support**

### Ongoing Research Support

NINDS NS 06393

*Estrogen Receptors and Nociceptive Signaling in Primary Afferent Neurons*

The major goal of this grant is to understand the role of estrogen receptors in the modulation of nociception in sensory neurons located in the dorsal root ganglia.

Role: Principal Investigator

NCRR U54RR026138

*Clinical and Translational Research Center, "Accelerating Excellence in Translational Science (AXIS)*

The vision of the Center is to integrate clinical and translational research that provides high-quality, cost-effective and culturally relevant solutions to improve health and wellness in minority and underserved populations with 11 core functions in: Biomedical Information, Community Engagement, Concierge, Clinical Resource Center, Epidemiology and Biostatistics, Evaluation, Innovations and Partnerships, Pilot Program, Regulatory, research Education and Training and Technology Core Laboratories.

Role: Program Director

NCRR K30 RR022259 (UCLA Subaward 1400 G NB117)

*UCLA Graduate Training Programs in Translational and Clinical Research*

The major goal of this award is to provide courses on faculty development in conjunction with other clinical training between different clinical and research centers.

Role: Sub-award Principal Investigator

### Completed Research Support

P20 MD000545

*CDU College of Science and Health Undergraduate Biomedical Research and Training Program*

The major goal of this project was to develop research infrastructure in the College of Science and Health.

Role: Sup-project Principal Investigator