

CURRICULUM VITAE.

Name, title, position:

Vasily A. Zolotarev, Ph.D., laboratory director

Date of birth:

08/81/1961.

Education/training:

1983 - MS in biology; Biological Faculty of Leningrad State University, USSR

1984 - Post graduate; Pavlov Institute of Physiology, St. Petersburg, Russia

1990 – Ph.D.; Pavlov Institute of Physiology, St. Petersburg, Russia; Ph.D. theses: “Mechanisms of excitation of neurons of the subepicardial plexus of the cat heart in vitro”.



Positions and Honors

Employment History:

1983-1988: Laboratory Assistant, Pavlov Institute of Physiology, St. Petersburg, Russia

1988-1991: Junior researcher, Laboratory of Physiology of the Autonomic Nervous System; Pavlov Institute of Physiology; St. Petersburg, Russia.

1991-1996: Researcher; Laboratory of Physiology of Digestion; Pavlov Institute of Physiology.

1996-2011: Senior researcher, Laboratory of Physiology of Digestion; Pavlov Institute of Physiology.

2011- : director; Laboratory of Physiology of Digestion; Pavlov Institute of Physiology.

Honors:

2005-2006: honorary scholarship of the Governor of the St. Petersburg region, Russia.

Membership:

1986- : Russian Physiological Society;

2004- : Affiliated Scientist, Monell Chemical Senses Center, Philadelphia, PA, USA;

2008-2011: Japanese Gastroenterology Association; Japan.

2008-2011: Association for Chemoreception Sciences; USA.

2010-2112: European Chemoreception Research Organization.

Selected peer-reviewed publications or manuscripts in press (from a total of 32)

Khropycheva R.P., **Zolotarev V.A.** Effect of proton pump inhibitors on gastric secretions of bicarbonates and pepsinogen induced by chemical irritation of the gastric mucosa. *Bull. Exp. Biol. Med.* 142, 2011 (Russian, in press).

Bachmanov AA, Bosak NP, Floriano WB, Inoue M, Li X, Lin C, Murovets VO, Reed DR, **Zolotarev VA**, Beauchamp GK. Genetics of sweet taste preferences. *Flavour Fragr J.* 2011 Jul; 26(4):286-294.

Khropycheva R., Andreeva J., Uneyama H., Torii K., **Zolotarev V.** Dietary glutamate signal evokes gastric juice excretion in dogs. *Digestion* 2011; 83(suppl 1):7–12. DOI: 10.1159/000323398.

Murovets V.O., **Zolotarev V.A.**, Bachmanov A.A. The role of the Sac locus in the alcohol taste preference in inbred mouse strains // *Doklady Biological Sciences.* – 2010. – Vol. 432. – P. 181-183.

Khropycheva R., Uneyama H., Torii K., **Zolotarev V.** Dietary monosodium glutamate enhances gastric secretion. *Journ. Med. Invest.* 2009, V. 56, Suppl. 1., P. 101-107.

Zolotarev V., Khropycheva R., Uneyama H., Torii K. Effect of free dietary glutamate on gastric secretion in dogs. *Ann. N. Y. Acad. Sci.* 2009, V.1170, P. 87-90

Uneyama H., Kropycheva R.P., Andreeva Y.V., Torii K., **Zolotarev V.A.** Physiological regulation of the oral umami taste sensation in the rat gastric secretion. *Jpn. J. Taste and Smell Res.* 15: 371-374, 2008.

Zolotarev V.A., Kropycheva R.P., Polenov S.A. Pattern-dependent vagal control of gastric secretion. Role of histamine mediation. *Doklady Biological Sciences.* 401(3): 1-4. 2005 (Russian).

Zhuikova S.E., Kropycheva R.P., **Zolotarev V.A.**, Polenov S.A., Samonina G.E. New peptide regulators of gastric secretion in rats (amilin, PGP, semax). *Clinical gastroenterol.* 2: 161-8. 2003 (Russian).

Polenov S.A., **Zolotarev V.A.**, Lensman M.V., Wei E.T., Dvoretzki D.P., Gourine V.N.. Effects of selective corticotropin-releasing hormone receptor agonists on anxiety-like behavior and acquisition of learning in rats. (2003) *News of Biomed. Sci.* No 3: 101-107.

Netukova N.L., Pesotskaja Ya.A., Pashkevich S.G., **Zolotarev V.A.**, Novoselova A.M., Polenov S.A. Patterns of activation of the solitari nucleus and ultra structural changes in ventral area of the medulla of rats. (2002) *News of Biomedical Sciences.* No.1: 58-61. (Russian)

- Zolotarev V.A.**, Kropycheva R.P., Polenov S.A. Selective regulation of acid, pepsinogen, and bicarbonate secretion in the stomach by different C-fiber populations of vagus nerve. (2002) Bull Exp Biol Med. 133(3):210-3.
- Zolotarev V.A.**, Nozdrachev A.D. Capsaicin-sensitive fibers of the vagus. (2001) Ross. Fiziol. Zh. 87(2): 182-203. (Review. Russian).
- Kropycheva R.P., **Zolotarev V.A.**, Polenov S.A. Quantitative evaluation of the role of cholinergic, gastrin, and histamine regulation of pepsinogen production in the stomach of anesthetized rats. (2000) Bull. Eksp. Biol. Med. 129(1):12-5. (Russian).
- Khropycheva R.P., **Zolotarev V.A.**, Polenov S.A. The role of histamine in vagal and gastrin effects on the secretory function of the rat stomach. (2000) Ross. Fiziol. Zh. Im. I. M. Sechenova. 86(11):1539-47. (Russian).
- Zolotarev V.A.**, Polenov S.A., Lepnev G.P., Razumova N.A. A method for the continuous quantitative estimation of acid and bicarbonate secretion in the stomach of narcotized rats. (1996) Ross. Fiziol. Zh. 82(7):111-6. (Russian).

Research support.

- Genetic background of masking of taste sensing of alcohol by sweeteners. Role of Tas1r3 gene. **PI-V.A.Zolotarev**. (Grant of the Government of Saint-Petersburg, Russia. 43-2010, 2010)
- Analysis of alcohol-related ingestive behavior in mice. **Co-PI V.Zolotarev** NIH R03TW007429 2007-2009.
- Development of new creatine derived drugs with potent capability of increasing cerebral high-energy stores: A novel approach for prevention and treatment of brain ischemia and stroke. **Investigator** (Grant of INTAS N2000-040412001/10, PI- M.Balestrino, Italy)
- Studies on the role of corticotropin-releasing hormone (CRH) in central control of cognitive and visceral functions. **Investigator** (Russian-Belarus Grant, RFBR-Bel2002a No 02-04-81006, 2002/01-2002/12, PI D.P.Dvoretzki).
- The study of local effector function in nervous control of stomach of neuropeptides released from primary afferents. **PI- V.A.Zolotarev** (Russian Foundation of Basic Research, Grant No. 01-04-49600; 2001/01-2002/12)
- Studies on the role of nitric oxide in neural control of visceral functions. **Investigator** (Russian Foundation of Basic Research, Grant No.01-04-49598. 2001/01-2002/12, PI- S.A.Polenov).
- A search of informational value of different patterns of the autonomic nerves activities in control of visceral functions. **Investigator** (Russian-Belarus Grant, RFBR-Bel2000a No 00-04-81113. 2001/01-2002/12, PI- S.A.Polenov).
- Local efferent function of neurotransmitters of primary afferents in modulation of gastric secretion and microcirculation. **PI-V.A.Zolotarev** (Russian Foundation of Basic Research, Grant No. 9-04-49492; 1999/04-2001/04).
- Search for novel corticotropin-releasing hormone analogs of potential therapeutic utility in Alzheimer's disease. **Investigator** (U.S. Civilian Research Development Foundation, Grant No. RBI-161 (prop. 28) 1996/01-1998/12, PI- E.T.Wei, Berkeley, U.S.)
- Investigation of the role of burst pattern of autonomic nerve discharge and the role of peptide cotransmitters in nervous control of visceral functions. **Investigator** (Russian Foundation of Basic Research, Grant No. 96-04-48626, 1996/01-1997/12; PI- S.A.Polenov)

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