

BIOGRAPHICAL SKETCH

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NAME Shuping Vincent Wu	POSITION TITLE Adjunct Associate Professor		
eRA COMMONS USER NAME			
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
National Taiwan University	B.S.	1972-1976	Plant Pathology
University of California, Riverside	Ph.D.	1977-1982	Biochemistry
Xoma Corporation, Santa Monica, CA	Post-doc	1982	Molecular Biology

A. Positions and Honors.**Positions and Employment**

- 1985 – 1991 Assistant Research Biochemist, CURE/Digestive Diseases Research Center, Dept. of Medicine, UCLA School of Medicine, Los Angeles, CA
- 1992 – 1996 Adjunct Assistant Professor, CURE/Digestive Diseases Research Center, Dept. of Medicine, UCLA School of Medicine, Los Angeles, CA
- 1996 – Present Adjunct Associate Professor, CURE/Digestive Diseases Research Center, Dept. of Medicine, UCLA School of Medicine, Los Angeles, CA
- 1999 – Present Research Biochemist, VA Greater Los Angeles Healthcare System, Los Angeles, CA

Other Experience and Professional Memberships

- Member, American Association of the Advancement of Science
- Member, American Gastroenterology Association (AGA)
- Member, Association for Chemoreception Sciences (AChemS)

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

- Sethi T, Herget T, **Wu SV**, Walsh JH, Rozengurt E. CCKA and CCKB receptors are expressed in small cell lung cancer lines and mediate Ca²⁺ mobilization and clonal growth. *Cancer Res* 1993;53:5208-5213.
- Martin MG, **Wu SV**, Ohning G, Wong H, Walsh JH. Parenterally or enterally administered anti-somatostatin antibody induces increased gastrin in suckling rats. *Am J Physiol* 1994;266:G417-G424.
- Yang H, **Wu SV**, Ishikawa T, Tache Y. Cold exposure elevates thyrotropin-releasing hormone gene expression in medullary raphe nuclei: Relationship with vagally-mediated gastric erosions. *Neuroscience* 1994;61:655-633.
- Prinz C, Sachs G, Walsh JH, Coy DH, **Wu SV**. The somatostatin receptor subtype on rat enterochromaffinlike cells. *Gastroenterology* 1994;107:1067-74.
- Wu SV**, Walsh JH, Campbell BJ, Dimaline R. Molecular characterization and physiological regulation of a TATA-less gene encoding chicken gastrin. *Eur J Biochem* 1995;230:439-46.
- Takehara Y, Sumii K, Tari A, Yoshihara M, Sumii M, Haruma K, Kajiyama G, **Wu SV**, Walsh JH. Evidence that endogenous GRP in rat stomach mediates omeprazole-induced hypergastrinemia. *Am J Physiol* 1996;271:G799-G804.
- Zeng N, Walsh JH, Kang T, **Wu SV**, Sachs G. Peptide YY inhibition of rat gastric enterochromaffin-like cell function. *Gastroenterology* 1997;112:127-135.
- Wu SV**, Yang M, McRobert JA, Ren J, Seensalu R, Zeng N, Dagrak M, Birnbaumer M, Walsh JH. First intracellular loop of the human cholecystokinin-A receptor is essential for cyclic AMP signaling in transfected HEK-293 cells. *J Biol Chem* 1997;272:9037-9042.
- Wang YH, Go VL, **Wu SV**, Wei JY. Stem cell factors alters membrane potential of purified peritoneal cells in culture. *Am J Physiol* 1997;272:1017-1024.

10. Hoffmann P, Zeeh JM, Lakshmanan J, **Wu SV**, Procaccino F, Reinshagen M, McRoberts JA, Eysselein VE. Increased expression of transforming growth factor a precursors in acute experimental colitis in rats. *Gut* 1997;41:195-202.
11. Sternini C, Wong H, **Wu SV**, De Giorgio R, Yang M, Reeve J Jr, Brecha NC, Walsh JH. Somatostatin 2A receptor is expressed by enteric neurons, and by interstitial cells of Cajal and enterochromaffin-like cells of the gastrointestinal tract. *J Comp Neurol* 1997;386:396-408.
12. Martin MG, **Wu SV**, Walsh JH. Ontogenetic development and distribution of antibody transport and Fc receptor mRNA expression in rat intestine. *Dig Dis Sci* 1997;42:1062-1069.
13. Martinez V, **Wu SV**, Tache Y. Intracisternal antisense oligodeoxynucleotides to the thyrotropin-releasing hormone receptor blocked vagal-dependent stimulation of gastric emptying induced by cold in rats. *Endocrinology* 1998;139:3730-3735.
14. Ohning GV, Song M, Wong HC, **Wu SV**, Walsh JH. Immunolocalization of gastrin-dependent histidine decarboxylase activity in rat gastric mucosa during feeding. *Am J Physiol* 1998;275:G660-667.
15. Yang H, Yuan P, **Wu SV**, Tache Y. Feedback regulation of TRH gene expression by thyroid hormone in the caudal raphe nuclei in rats. *Endocrinology* 1999;140:43-49.
16. **Wu SV**, Yang M, Avedian D, Birbaumer M, Walsh JH. Single amino acid substitution of serine82 to asparagine in first intracellular loop of human cholecystokinin (CCK)-B receptor confers full cyclic AMP responses to CCK and gastrin. *Mol Pharmacol* 1999;55:795-803.
17. Yang H, **Wu SV**, Pichuanes S, Song M, Wang J, Zhou D, Xu Z, Quan S, Polito A, Walsh JH. High prevalence of cagA-positive strains in *Helicobacter pylori*-infected, healthy, young Chinese adults. *J Gastroenterol Hepatol* 1999;14:476-480.
18. Harris DM, Flannigan KL, Go VL, **Wu SV**. Regulation of cholecystokinin-mediated amylase secretion by leptin in rat pancreatic acinar tumor cell line AR42J. *Pancreas* 1999;19:224-230.
19. Johnson J, **Wu SV**, Wong H, Walsh JH, Brecha N. Somatostatin receptor subtype 2A expression in the rat retina. *Neuroscience* 1999;94:675-683.
20. Solomon TE, Varga G, Zeng N, **Wu SV**, Walsh JH, Reeve JR Jr. Different actions of secretin and Gly-extended secretin predict secretin receptor subtypes. *Am J Physiol Gastrointest Liver Physiol* 2001;280:G88-94.
21. **Wu SV**, Rozengurt N, Yang M, Young SH, Sinnott-Smith J, Rozengurt E. Expression of bitter taste receptors of the T2R family in the gastrointestinal tract and enteroendocrine STC-1 cells. *Proc Natl Acad Sci U S A* 2002;99:2392-7.
22. Harris DM, Go VL, Reeve JR Jr, **Wu SV**. Stimulation of amylase release by Orexin is mediated by Orexin 2 receptor in AR42J cells. *Pancreas* 2002;25:405-410.
23. Young SH, **Wu SV**, Rozengurt E. Ca²⁺-stimulated Ca²⁺ oscillations produced by the Ca²⁺-sensing receptor require negative feedback by protein kinase C. *J Biol Chem* 2002;277:46871-46876.
24. Reeve JR Jr, **Wu SV**, Keire DA, Faull K, Chew P, Solomon TE, Green GM, Coskun T. Differential bile-pancreatic secretory effects of CCK-58 and CCK-8. *Am J Physiol Gastrointest Liver Physiol* 2004;286:G395-402.
25. Jiang L, Wang J, Solorzano-Vargas RS, Tsai HV, Gutierrez EM, Ontiveros LO, Kiela PR, **Wu SV**, Martin MG. Characterization of the rat intestinal Fc receptor (FcRn) promoter: Transcriptional regulation of FcRn gene by the Sp family of transcription factors. *Am J Physiol Gastrointest Liver Physiol* 2004;286:G922-G931.
26. Yang H, Wang L, **Wu SV**, Tay J, Goulet M, Boismenu R, Czimmer J, Wang Y, Wu S, Ao Y, Tache Y. Peripheral secretin-induced Fos expression in the rat brain is largely vagal dependent. *Neuroscience* 2004;128:131-41.
27. Keire DA, **Wu SV**, Diehl DL, Chew P, Ho FJ, Davis MT, Lee TD, Shively JE, Walsh JH, Reeve JR Jr. Rat progastrin processing yields peptides with altered potency at the CCK-B receptor. *Regul Pept* 2004 (in press).

C. Research Support

Ongoing Research Support

VA Merit review/VA (Taché, PI)

06/01/00 – 05/31/08

Peripheral mechanism of post operative Ileus.

Aims at establishing the mechanisms by which surgery induces gastrointestinal ileus and at determining the role of the CRF system in the process.

Role: Co-Investigator

Completed Research Support

UC-Mexus 07/01/03 – 12/31/04

Role of FAK kinase in the induction of MMP-2 and MMP-9

Major Goals: To define the role of FAK in MMP induction in breast cancer cell line.

Role: PI

NIH/NIDDK DK41301 12/01/99 – 11/30/04

CURE-Gastroenteric Biology Center Grant

Role: Co-director of Peptide Biochemistry and Molecular Probe Core

NIH DK17294 04/01/00 – 11/30/04

Hormonal regulation of gastric acid secretion

To examine the roles and mechanisms by which gastrin regulates gastric acid secretion and mucosal proliferation.

Role: Co-investigator

NIH/NIAAA P50AA11999 Wu (PI) 01/01/01 – 12/31/01

Alcoholic Liver and Pancreatic Diseases Center Grant

Pilot study: Molecular mechanisms of alcohol-sensitized CCK actions

Role: PI

VA Merit Review 821 11/01/98 – 10/31/01

Inhibitory mediators of gastric acid secretion

To define the role of gastric acid secretion by activation of neurohumoral pathways

Role: Co-Investigator