

BIOGRAPHICAL SKETCH

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NAME Lixin Wang	POSITION TITLE Assistant Researcher		
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
Beijing Univ., Medical School, Beijing, China	M.D.	1976-1978	Medicine
Beijing Univ., Medical School, Beijing, China	M.Sc.	1980-1983	Neuroanatomy
Beijing Univ., Medical School, Beijing, China	Ph.D.	1984-1987	Neuroanatomy
UCLA, Brain Research Institute, Los Angeles, CA	Post Doc.	1998-1999	Psychoneuroimmunology

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

- 1978 – 1980 Assistant Lecturer, Department of Anatomy, Beijing University Medical School, Beijing, China
 1985 – 1988 Lecturer, Department of Anatomy, Beijing University Medical School, Beijing, China
 1989 – 1990 Visiting Scientist, Dept. of Histology and Neurobiology, Karolinska Institute, Stockholm, Sweden
 1990 – 1992 Associate Professor, Department of Anatomy, Beijing University Medical School, Beijing, China
 1993 – 2000 Visiting Researcher, postdoctoral researcher, Dept. of Medicine/Digestive Diseases Division, UCLA, CA
 2001 – Present Assistant Researcher, Department of Medicine/Digestive Diseases Division, UCLA, CA

Other Experience and Professional Memberships

Member, Society for Neuroscience

Honors

- 1989 – 1990 Wenner Gren Foundation Fellowship
 1992 – 1993 Wenner Gren Foundation Fellowship
 1991 – 1992 Good Teacher Award, Beijing University Medical School
 2002 American Motility Society Travel Award

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

1. **Wang L**, Martínez V, Barrachina MD, Taché Y. Fos expression in the brain induced by peripheral injection of CCK or leptin plus CCK in fasted lean mice. **Brain Res** 1998;971:157-166.
2. **Wang L**, Cardin S, Martínez V, Taché Y, Lloyd KCK. Duodenal loading with glucose induces Fos expression in rat brain: Selective blockade by devazepide. **Am J Physiol** 1999;277:R667-R674.
3. Martínez V, Barrachina M-D, **Wang L**, Taché Y. Intracerebroventricular leptin inhibits gastric emptying of a solid nutrient meal in rats. **NeuroReport** 1999;10:3217-3221.
4. **Wang L**, Martínez V, Vale W, Taché Y. Fos induction in selective hypothalamic neuroendocrine and medullary nuclei by intravenous injection of urocortin and corticotropin-releasing factor in rats. **Brain Res** 2000;855:47-57.
5. Yang H, Yuan PQ, **Wang L**, Taché Y. Activation of the parapyramidal region in the ventral medulla stimulates gastric acid secretion through vagal pathways in rats. **Neuroscience** 2000;95:773-779.
6. Million M, **Wang L**, Martinez V, Taché Y. Differential Fos expression in the paraventricular nucleus of the hypothalamus, sacral parasympathetic nucleus and colonic motor response to water avoidance stress in Fischer and Lewis rats. **Brain Res** 2000;877:345-353.
7. Martínez V, **Wang L**, Taché Y. Central TRH receptor 1 antisense blocks cold-induced gastric emptying but not brain c-Fos induction. **Peptides** 2001;22:81-90.

8. **Wang L**, Martinez V, Rivier JE, Taché Y. Peripheral urocortin inhibits gastric emptying and food intake in mice: differential role of CRF receptor 2. **Am J Physiol Regul Integr Comp Physiol** 2001;281:R1401-10.
9. Martinez V, **Wang L**, Rivier JE, Vale W, Taché Y. Different actions of peripheral corticotropin-releasing factor (CRF), urocortin II and urocortin III on gastric emptying and colonic transit in mice: Role of CRF receptor subtypes 1 and 2. **J Pharmacol Exp Ther** 2002;301:611-617.
10. **Wang L**, Saint-Pierre DH, Taché Y. Peripheral ghrelin selectively increases Fos expression in neuropeptide Y-synthesizing neurons in mouse hypothalamic arcuate nucleus. **Neurosci Lett** 2002;325:47-51.
11. Rivier J, Gulyas J, Kirby D, Low W, Perrin MH, Kunitake K, DiGrucchio M, Vaughan J, Reubi JC, Waser B, Koerber SC, Martinez V, **Wang L**, Taché Y, Vale W. Potent and long-acting corticotropin releasing factor (CRF) receptor 2 selective peptide competitive antagonists. **J Med Chem** 2002;45:4737-4747.
12. Maillot C, **Wang L**, Million M, Taché Y. Intraperitoneal corticotropin-releasing factor and urocortin induce Fos expression in brain and spinal autonomic nuclei and long lasting stimulation of colonic motility in rats. **Brain Res** 2003;974:70-81.
13. Basa NR, **Wang L**, Arteaga JR, Heber D, Livingston EH, Taché Y. Bacterial lipopolysaccharide shifts fasted plasma ghrelin to postprandial levels in rats. **Neurosci Lett** 2003;343:25-8.
14. Luckey A, **Wang L**, Jamieson PM, Basa NR, Million M, Czimmer J, Vale W, Taché Y. Corticotropin-releasing factor receptor 1-deficient mice do not develop postoperative gastric ileus. **Gastroenterology** 2003;125:262-268.
15. Chatzaki E, Murphy BJ, **Wang L**, Million M, Ohning GV, Crowe PD, Petroski R, Taché Y, Grigoriadis DE. Differential profile of CRF receptor distribution in the rat stomach and duodenum assessed by newly developed CRF receptor antibodies. **J Neurochem** 2004;88:1-11.
16. Martinez V, **Wang L**, Rivier J, Grigoriadis D, Taché Y. Central CRF, urocortins and stress increase colonic transit via CRF1 receptors while activation of CRF2 receptors delays gastric transit in mice. **J Physiol** 2004;556:221-34.
17. Chatzaki E, Crowe PD, **Wang L**, Million M, Taché Y, Grigoriadis DE. CRF receptor type 1 and 2 expression and anatomical distribution in the rat colon. **J Neurochem** 2004;90:309-16.
18. Yang H, **Wang L**, Wu SV, Tay J, Goulet M, Boismenu R, Czimmer J, Wang Y, Wu S, Ao Y, Taché Y. Peripheral secretin-induced Fos expression in the rat brain is largely vagal dependent. **Neuroscience** 2004;128:131-41.
19. Martinez V, **Wang L**, Million M, Rivier J, Taché Y. Urocortins and the regulation of gastrointestinal motor function and visceral pain. **Peptides** 2004;25:1733-44.
20. Kobelt P, Tebbe JJ, Tjandra I, Stengel A, Bae HG, Andresen V, van der Voort IR, Veh RW, Werner CR, Klapp BF, Wiedenmann B, **Wang L**, Taché Y, Monnikes H. CCK inhibits the orexigenic effect of peripheral ghrelin. **Am J Physiol Regul Integr Comp Physiol** 2005;288:R751-8.
21. Yuan PQ, Kimura H, Million M, Bellier J-P, **Wang L**, Ohning GV, Taché Y. Central vagal stimulation activates enteric cholinergic neurons in the stomach and VIP neurons in the duodenum in conscious rats. **Peptides** (In press)
22. Million M, **Wang L**, Wang YH, Adelson DW, Yuan P-Q, Maillot C, Couthino SV, McRoberts JA, Bayati A, Matsson H, Wu SV, Wei J-Y, Rivier J, Vale W, Mayer EA, Taché Y. CRF2 receptor activation prevents colorectal distension-induced visceral hyperalgesia and spinal ERK 1/2 expression in rats. **Gut** (In press)

Reviews:

23. **Wang L**, Barrachina MD, Martínez V, Wei JY, Taché Y. Synergistic interaction between CCK and leptin to regulate food intake. **Regul Pept** 2000;92:79-85.
24. Taché Y, Martínez V, Million M, **Wang L**. Stress and the gastrointestinal tract III. Stress-related alterations of gut motor function: role of brain corticotropin-release factor receptors. **Am J Physiol Gastro Liver Physiol** 2001;280:G173-7.
25. St. Pierre DH, **Wang L**, Taché Y. Ghrelin: novel player in the regulation of growth hormone and energy balance. **News Physiol Sci** 2003;18:242-246.
26. Tache Y, Martinez V, **Wang L**, Million M. CRF1 receptor signaling pathways are involved in stress-related alterations of colonic function and viscerosensitivity: implications for irritable bowel syndrome. **Br J Pharmacol** 2004;141:1321-30.

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: Investigator

NIH DK 57238 (Tache, PI)

09/01/00 – 08/31/05

Peripheral Mechanism of Corticotropin Releasing Factor in Stress-Induced Colonic Motor Function

This is the parent grant of the DK 57238-01A1S1 and aims to establish the neuro-chemical and intracellular mechanisms whereby peripheral injection of CRF stimulates colonic motor function and determine their relevance in the colonic response to stress.

Role: Investigator

NIH DK 64539 (P50) (Mayer, PI)

10/01/02 – 09/30/07

Sex-Related Differences in Colonic Response to Stress: Role of CRF.

Aims at establishing the role and mechanisms of the CRF system in sex related differences on visceral pain responses.

Role: Investigator in one of the 4 grants

NIH DK 33061-17 (Taché, PI)

04/01/03 – 08/31/08

Corticotropin-Releasing Factor: Action on GI Function.

Aims to determine the roles and mechanisms of the spinal and supra-spinal CRF system on gastrointestinal function in health and stress condition.

Role: Investigator

Completed Research Support

None