

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format on for each person. (See attached sample). **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
Hong Yang		Research Physiologist	
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 Medical University, P.R. China	M.D.	1977	Medicine
Beijing Medical University, P.R. China	Masters	1982	Physiology
Beijing Medical University, P.R. China	Ph.D.	1986	Physiology
CURE, Dept. of Medicine, UCLA	Postdoctoral	1992	Brain-Gut Interactions

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

1978 – 1980	Faculty of Teaching and Research Assistant in Biochemistry, Beijing Medical University
1982 – 1986	Faculty of Teaching and Research Assistant in Physiology, Beijing Medical University
1986 – 1987	Faculty Researcher and Lecturer in Physiology, Beijing Medical University
1987 – 1992	Visiting Assistant Researcher, Dept. of Medicine, UCLA
1992 – 1996	Assistant Researcher, Dept. of Medicine, UCLA
1996 – 2002	Associate Researcher, Dept. of Medicine, UCLA
2002 – Present	Research Physiologist, Dept. of Medicine, UCLA

Other Experience and Professional Memberships

1990 – Present	Member, Society for Neuroscience
1994 – Present	Member, American Gastroenterological Association
2001 – Present	Member, The American Physiological Society

Honors

1990	Pilot and Feasibility Award, CURE, Dept. of Medicine, UCLA
1995 – 2000	NIH R29DK50255: Hypothyroid and Autonomic Changes: Role of Medullary TRH.
2002	Stein-Oppenheimer Award: Energy Balance and Autonomic Regulation: Role of NPY, David Geffen School of Medicine, UCLA
2003	Department of Veterans Affairs Merit Review Award: Brain Medullary Mechanism of Hypothyroidism Induced Autonomic Disorders

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

1. **Yang H.** Effect of morphine and endorphins on feeding behavior. *Progress in Physiological Science* 1983;14:370-371.
2. **Yang H, Zhang XJ.** The hyperglycemic effect of morphine after brain injection in rabbits. *J Beijing Medical College* 1984;16:11-15.
3. **Yang H, Zhang XJ.** The role of brain endogenous opioids in stress-induced hyperglycemia. *Acta Physiologica Sinica* 1984;36:117-121.
4. **Yang H, Wu XR, Zhang XJ.** Effect of intracerebroventricular injection of 5-hydroxytryptamine on plasma glucose concentration in rabbits. *J Beijing Medical College* 1984;16:187-189.
5. **Yang H, Zhang XJ.** The role of brain 5-hydroxytryptamine in the genesis of stress-induced gastric ulcer in rats. *Acta Physiologica Sinica* 1985;37:416-424.

6. **Yang H**, Zhang XJ, Wang CC. The enhancing effect of intracerebroventricular injection of bovine pancreatic polypeptide and neuropeptide Y on stress-induced gastric ulceration in rats. *Chinese J Physiological Sciences* 1985;1:96-101.
7. **Yang H**, Qiu C-F, Zhang S-X, An S-Z, Zhang XJ. Role of central 5-HT in the activation of hypothalamic-pituitary-adrenal and hypothalamic-pituitary-thyroid axes during stress ulceration. *Chinese J Physiol Sci* 1987;3:280-289.
8. Ishikawa T, **Yang H**, Taché Y. Medullary sites of action of the TRH analogue, RX77368, for stimulation of gastric acid secretion in the rat. *Gastroenterology* 1988;95:1470-1476.
9. **Yang H**, Cuttitta F, Raybould H, Taché Y. Intrathecal injection of bombesin inhibits gastric acid secretion in the rat. *Gastroenterology* 1989;96:1403-1409.
10. **Yang H**, Ishikawa T, Taché Y. Microinjection of TRH analogs into the raphe pallidus stimulates gastric acid secretion in the rat. *Brain Res* 1990;531:280-285.
11. Taché Y, **Yang H**. Brain regulation of gastric acid secretion by peptides: sites and mechanisms of action. In: *Neurobiology of Stress Ulcers*, New York: Ann NY Acad Sci, Vol 597, 1990, pp 88-145.
12. **Yang H**, Stephens R, Taché Y. TRH analog microinjected into specific medullary nuclei stimulates gastric serotonin secretion in rats. *Am J Physiology* 1992;262:G216-G222.
13. **Yang H**, Ohning G, Taché Y. TRH in the dorsal vagal complex mediates the acid response to excitation of raphe pallidus neurons in rats. *Am J Physiol* 1993;265:G880-886..
14. **Yang H**, Wu SV, Ishikawa T, Taché Y. Cold exposure elevates TRH messenger RNA in medullary raphe nuclei: relationship with vagally mediated gastric erosions. *Neuroscience* 1994;61:655-663.
15. **Yang H**, Zhang XJ, Taché Y, Yoneda M, Wang CC. Central serotonin influences the development of cold-restraint stress-induced gastric ulceration: role of autonomic and endocrine mechanisms. In: Singer MV, Ziegler R, Rohr G (Eds.), *Gastrointestinal Tract and Endocrine System*, Kluwer: Academic Publishers, 1995, pp 77-82.
16. **Yang H**, Taché Y. Peptide YY in brainstem nuclei stimulates gastric acid secretion through vagal pathways in rats. *Am J Physiol* 1995;268:G 943-G948.
17. **Yang H**, Taché Y. Caudal medullary raphe nuclei and vagal regulation of gastric function. In: Singer MV, Ziegler R, Rohr G (Eds.), *Gastrointestinal Tract and Endocrine System*, Kluwer: Academic Publishers, 1995, pp 39-49.
18. **Yang H**, Taché Y. Inhibitory effect of substance P in the dorsal motor nucleus of the vagus on TRH-induced gastric acid secretion. *Am J Physiol* 1997;272:G987-G993.
19. **Yang H**, Li WP, Reeve JR Jr, Taché Y. PYY preferring receptor in the dorsal vagal complex mediates PYY stimulation of gastric acid secretion in rats. *Br J Pharmacol* 1998;123:1549-1554.
20. **Yang H**, Yuan PQ, Wu V, Taché Y. Feedback regulation of thyrotropin-releasing hormone gene expression by thyroid hormone in the caudal raphe nuclei in rats. *Endocrinology* 1999;140:43-49.
21. Yuan PQ, **Yang H**. Hypothyroidism induces Fos-like immunoreactivity in ventral medullary neurons that synthesize TRH. *Am J Physiol* 1999;277:E927-E936.
22. Yuan PQ, **Yang H**. Hyperthyroidism decreases thyrotropin-releasing hormone gene expression in the caudal raphe nuclei and the parapyramidal regions in rats. *Neurosci Lett* 1999;276:189-192.
23. **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.
24. Yuan PQ, **Yang H**. Location of thyroid hormone receptor β_2 in medullary TRH synthesizing neurons. *Brain Res* 2000;868:22-30.
25. **Yang H**, Kawakubo K, Wong H, Ohning G, Taché Y. Peripheral PYY inhibits intracisternal TRH-induced gastric acid secretion by acting in the brain. *Am J Physiol* 2000;279:G575-G581.
26. Yuan PQ, Taché Y, Miampamba M, **Yang H**. Acute cold exposure induces vagal mediated Fos expression in gastric myenteric cells in conscious rats. *Am J Physiol* 2001;281:G560-G568.
27. **Yang H**, Taché Y, Ohning G, Go VLW. Activation of raphe pallidus neurons increases insulin through medullary TRH-vagal pathways. *Pancreas* 2002;25:301-307.
28. Yuan PQ, **Yang H**. Neuronal activation of brain vagal-regulatory pathways and upper gut enteric neurons by insulin hypoglycemia. *Am J Physiol Endocrinol Metab* 2002;283:E436-E448.
29. **Yang H**. Central and peripheral regulation of gastric acid secretion by peptide YY. *Peptides* 2002;23:349-358.
30. **Yang H**. Hypothyroidism and autonomic changes: role of medullary TRH. In: Taché Y (Ed.), *Brain-Gut Peptides in the New Millennium: A Tribute to John Walsh by His Collaborators*. Los Angeles: Lippincott Williams & Wilkins, 2002; pp 243-253.
31. Doong M-L, **Yang H**. Intravenous glucose infusion decreases intracisternal thyrotropin-releasing hormone induced vagal stimulation of gastric acid secretion in anesthetized rats. *Neurosci Lett* 2003;340:49-52.

C. Research Support

Ongoing Research Support

DK 41301 Rozengurt (PI) 12/1/99 – 11/30/04
NIH/NIDDK Center Grant
Animal Core

To provide guidance and expertise in the performance of in vivo studies and to assess gastric secretory and motor functions in collaboration with other cores; to test in vivo biological activity of antibodies.

Role: Co-Investigator

VA Merit Review Award Yang (PI) 4/01/03 – 3/31/06
Department of Veterans Affairs

Brain Medullary Mechanism of Hypothyroidism Induced Autonomic Disorders

This grant investigates the role of brain medullary vagal regulatory peptides in hypothyroidism induced autonomic disorders.

Role: PI

Completed Research Support

R29 DK 50255 Yang (PI) 8/01/95 – 7/31/00
NIH/NIDDK

Hypothyroid and autonomic changes: role of medullary TRH

The overall goals are to study whether thyroid hormone exerts a feedback regulation on medullary TRH gene expression and the involvement of this mechanism in the autonomic disorders observed in hypothyroidism.

Role: PI

RO1 DK 30110 Taché (PI) 2/01/96 – 01/31/01
NIH/NIDDK

Brain Regulation of Gastric Function by Neuropeptides

The objective of this grant is to characterize the mechanisms of action and physiological roles of medullary TRH and somatostatin in the vagal regulation of gastric function.

Role: Co-Investigator

Stein-Oppenheimer Award Yang (PI) 4/01/02 – 03/31/03
David Geffen School of Medicine, UCLA

Energy balance and autonomic regulation: role of NPY.

To study the role of medullary NPY in the regulation of vagal activity and the response of medullary NPY to energy unbalance.

Role: PI