

**BIOGRAPHICAL SKETCH**

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|   |  |         |                 |
|---|--|---------|-----------------|
| NAME<br>Yvette Taché  | POSITION TITLE<br>Professor in Residence |         |                 |
| eRA COMMONS USER NAME<br>Tache2   |  |         |                 |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> |  |         |                 |
| INSTITUTION AND LOCATION  | DEGREE<br><i>(if applicable)</i>         | YEAR(s) | FIELD OF STUDY  |
| Univ. of Lyon, Sciences Fac. Lyon, France   | Maitrise                                 | 1968    | Physiology      |
| Univ. of Lyon, Med., Lyon, France   | D.E.R.B.E.                               | 1969    | Human Biology   |
| Univ. of Montreal Med. Faculty, Montreal, Canada  | Ph.D.                                    | 1974    | Exper.Med/Surg. |

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

- 1977 – 1981 Assistant Professor, Dept. of Pediatrics, Faculty of Medicine, Univ. of Montréal, Canada  
 1978 – 1980 Visiting Scientist, Peptide Biology Laboratory, Salk Institute, La Jolla, CA  
 1981 – 1982 Associate Professor, Dept. of Pediatrics, Faculty of Medicine, University of Montréal, Canada  
 1982 – 1985 Associate Professor in Residence, Dept. of Medicine, Faculty of Medicine, UCLA, L.A., CA  
 1987 – Pres. Professor in Residence, Department of Medicine, Faculty of Medicine, UCLA, Los Angeles, CA  
 1987 – 2000 Associate Director, CURE: Digestive Disease Research Center (DDRC), UCLA Digestive Diseases Division  
 2000 – 2002 Director CURE NIHDDK CURE: DDRC, UCLA Digestive Diseases, Division  
 2002 – Pres. Co-Director, Center for Neurovisceral Sciences & Women's Health and Associate Director CURE:DDRC and Associate Director, CURE/DDRC, UCLA Digestive Division

**Honors**

1988 – 1998: Research Scientist Award (National Institute of Mental Health, ADAMHA); 1988: UCLA Woman of Science Award; 1991 – 1995: NIH Study Section GMA2 (member); 1994: Doctor Honoris Causa, Pécs University Medical School, Pécs Hungary; 1996 – 2004: NIH Merit Award; 1997 – 2001: American Gastroenterology Association Council; 1998: Janssen Award for Basic Research in Gastroenterology; 2000 – 2008: VA Merit Award; 2003: Distinguished Research Award in Gastrointestinal Physiology (American Physiological Society); 2003 – 2008: Research Career Scientist Award, Dept. of Veteran's Affairs, Veterans Health Organization; 2005 International Foundation for Functional Gastrointestinal Disorders Senior Investigator-Basic Science Award.

**B. Selected peer-reviewed publications. (266 published peer-reviewed articles, 101 reviews/chapters)**

1. Wang L, Martinez 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.
2. Martinez V, Rivier J, Coy D, **Taché Y.** Intracisternal injection of somatostatin receptor 5 preferring agonists induces a vagal cholinergic stimulation of gastric emptying in rats. *J Pharm Exp Ther* 2000;293:1099-1105
3. 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.
4. Maillot C, Million M, Gauthier A, **Taché Y.** Peripheral corticotropin-releasing factor receptor and stress stimulated colonic motor activity involves type 1 receptor in rats. *Gastroenterology* 2000;119:1569-1579.
5. Yuan P-Q, **Taché Y,** Miampamba M, Yang H. Acute cold exposure induces vagally mediated Fos expression in gastric myenteric neurons in conscious rats. *Am J Physiol Gastrointest Liver Physiol* 2001;281:G560-G568.
6. Martinez V, **Taché Y.** Role of CRF receptor 1 in central CRF-induced stimulation of colonic propulsion in rats. *Brain Res* 2001;893:29-35.

7. Miampamba M, Yang H, Sharkey KA, **Taché Y**. Intracisternal TRH analog induces Fos expression in gastric myenteric neurons and glia in rats. *Am J Physiol Gastrointest Liver Physiol* 2001;280:G979-G991.
8. Kresse AE, Million M, Saperas E, Rivier C, **Taché Y**. Colitis induces CRF expression in hypothalamic magnocellular neurons and blunts gene stress in rats. *Am J Physiol* 2001;281:G1203-G1213.
9. 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-R1410.
10. **Taché Y**, Martinez V, Million M, Wang L. Stress and the gastrointestinal tract. III. Stress-related alterations of gut motor function: Role of brain corticotropin-releasing factor receptors. *Am J Physiol Gastrointest Liver Physiol* 2001;280:G173-G177.
11. Million M, Maillot C, Saunders P, Rivier J, Vale W, **Tache Y**. Human urocortin II, a new CRF-related peptide, displays a selective CRF<sub>2</sub> mediated action on gastric transit in rats. *Am J Physiol Gastrointest Liver Physiol* 2002;282:G34-G41.
12. Martinez V, Wang L, Rivier JE, **Taché Y**. Differential actions of peripheral 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.
13. Saunders PR, Maillot C, Million M, **Taché Y**. Peripheral corticotropin-releasing factor induces diarrhea in the rat via receptor subtype 1. *Eur J Pharmacol* 2002;435:231-235.
14. Miampamba M, Maillot C, Million M, **Taché Y**. Peripheral CRF activates myenteric neurons in the proximal colon through CRF<sub>1</sub> receptor in conscious rats. *Am J Physiol* 2002;282:G857-G865.
15. Chen C-Y, Million M, Adelson DW, Martinez V, Rivier J, **Taché Y**. Intracisternal urocortin inhibits central vagal stimulated gastric motility in rats: role of CRF receptor 2 in rats. *Br J Pharmacol* 2002;136:237-247.
16. Wang L, St-Pierre DH, **Taché Y**. Peripheral ghrelin increases Fos expression in neuropeptide Y synthesizing neurons in mouse hypothalamic arcuate nucleus. *Neurosci Lett* 2002;325:47-51.
17. Martinez V, Barrachina MD, Ohning G, **Taché Y**. Cephalic phase of acid secretion involves activation of medullary TRH receptor subtype 1 in rats. *Am J Physiol* 2002;283:G1310-G1319.
18. Chen CY, Doong ML, Rivier JE, **Taché Y**. Intravenous urocortin II decreases blood pressure through CRF(2) receptor in rats. *Regul Pept* 2003;113:125-30.
19. 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.
20. 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.
21. Million M, Grigoriadis DE, Sullivan S, Crowe PD, McRoberts JA, Zhou H, Saunders PR, Maillot C Mayer EA, **Taché Y**. A novel water-soluble selective CRF<sub>1</sub> receptor antagonist, NBI 35965, blunts stress-induced visceral hyperalgesia and colonic motor function in rats. *Brain Res* 2003;985:32-42.
22. 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.
23. 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 stomach and duodenum assessed by newly developed CRF receptor antibodies. *J Neurochem* 2004;88:1-11.
24. Adelson SW, Million M, Kanamoto K, Palanca T, **Taché Y**. Coordinated gastric and sphincter motility evoked by intravenous CCK-8 as monitored by ultrasonomicrometry in rats. *Am J Physiol Gastrointest Liver Physiol* 2004;286:G321-G332.
25. 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;90:309-316.
26. Martinez V, Wang L, Rivier J, Grigoriadis D, **Taché Y**. Central CRF, urocortins and stress increase colonic transit via CRF<sub>1</sub> receptors while activation of CRF<sub>2</sub> receptors delays gastric transit in mice. *J Physiol* 2004;556.1:221-234.
27. **Taché Y**. CRF receptor antagonists: potential future therapy in gastroenterology? *Gut* 2004;53:919-921.
28. **Taché Y**, Perdue M. Role of peripheral CRF signaling pathways in stress-related alterations of gut motility and mucosal function. *Neurogastroenterol Motil* 2004;16(Suppl 1):137-142.

## C. Research Support

### Ongoing Research Support

R01 DK 33061 Taché (PI)

07/01/95 – 06/30/08

NIH/DDK

Corticotropin Releasing Factor: Actions on GI Function

The overall goals are to define the role of the paraventricular nucleus of the hypothalamus and locus coeruleus underlying CRF and IL-1 actions in the brain to induce alterations of gastric and colonic motor function and their implications at these brain sites to the stress response in rats.

Role: PI

R01 DK 57238 Taché (PI)

09/01/00 – 08/30/05

NIH/DDK

Peripheral Mechanisms of Stress-induced Activation of Colonic Motor Function.

The objectives of this grant are to establish the receptors and pathways through which stress neurotransmitters activate colonic motor function.

Role: PI

VA MERIT AWARD Taché (PI)

04/01/00 – 03/30/08

Peripheral Mechanisms of Post-Operative Ileus

To assess the mechanisms underlying post-operative gastric stress with a specific emphasis on the role of the sensory afferent pathways.

Role: PI

1P50 DK 64539 Mayer (PI)

09/30/02 – 08/31/07

NIHDDK

Women's Health and Functional Visceral Disorder Center

Project 2: Sex Differences in the Colonic Responses to Stress: Role of CRF Pathways

The objectives are to establish the role and mechanisms of the CRF system in sex related differences on visceral pain responses.

Role: PI

1 R24 AT002681 Mayer (PI)

09/15/04 – 07/31/09

NIH/NCCAM

Mind/Brain/Body Interactions in Stress-Related Disorders

The goal of this infrastructure grant is to develop 4 research cores (Health Outcomes, Neuroimaging, Animal Models, Psychophysiology and Pain Assessment) to provide novel, cutting edge expertise and technologies to UCLA investigators interested in the study of mind brain body interactions. After the full build up of the cores, there will be a Pilot and Feasibility program for years 3-5 of the grant with 4 annual awards. These projects will utilize the resources of the cores as well as the expertise of the involved faculty.

The animal core will make available mutant with floxed NR1, CRF1 and GluR2 subunit of glutamate receptors along with estrogen  $\alpha$  and  $\beta$  receptors. It will also create mouse with regulable HPA axis and mice with *Cre*-expression driven by the  $\mu$ -opioid receptors. These mice will be also genotyped in relation with changes in behavioral response to stress and gut function.

Role: Co-Director

DK 41301 Rozengurt (PI)

12/01/04– 11/30/09

NIH/DDK Center Grant

Animal Core Y. Taché/J. Kaunitz

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: PI

1 R21 DK068155-01A1 Million (PI)

07/01/05 – 06/30/07 (Pending)

Principal Investigator/Program Director (Last, First, Middle):

NIH/NIDDK

Peripheral CRF<sub>2</sub> Receptors Modulation of Colonic Response To Stress

The major goals of this project are to determine the role of peripheral CRF<sub>2</sub> receptors on the coping response of the colon to stress and visceral pain response.

Role: Collaborator

**Completed Research Support**

RO1 DK 30110 Taché (PI)

02/01/96 – 01/31/01

NIH/DDK

Brain Regulation of Gastric Acid Function by Neuropeptides

The objective of this grant was to characterize the mechanisms of action and roles of brain TRH in gastric function.