

BIOGRAPHICAL SKETCH

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NAME Adelson, David W		POSITION TITLE Research Physiologist	
eRA COMMONS USER NAME BBRIP15			
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
University of California at Berkeley	A.B.	1985	Biochemistry
University of California at San Diego	PhD	1995	Neurobiology

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

1991 – 1995 Graduate Researcher, UCLA Dept. of Neurobiology
 1995 – 1996 Postdoctoral Trainee, UCLA School of Dentistry Section of Oral Biology
 1997 – 2000 Postdoctoral Researcher, UCLA Division of Digestive Diseases, CURE:DDRC
 2000 – Present Research Physiologist, CURE:DDRC, West LA VAGLAHS

Honors and Awards

1992 AGA Student Summer Fellowship
 1999 CURE Pilot and Feasibility Study

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

1. Wei JY, **Adelson DW**, Tache Y, Go VLW. Descending vagal afferent discharges: another source of gastric "efferent" control. *J Auton Nerv Sys* 1995;52:83-97.
2. **Adelson DW**, Wei JY, Kruger L. H₂O₂-sensitivity of splanchnic C-fiber units in vitro. *J Neurophysiol* 1996;76:371-380.
3. **Adelson DW**, Wei JY, Kruger L. Properties of warm-sensitive splanchnic C-fiber units in vitro. *J Neurophysiol* 1997;77:2989-3002.
4. **Adelson DW**, Wei JY, Yashar M, O-lee TJ, Taché Y. Central autonomic activation by intracisternal TRH analog excites gastric splanchnic afferent neurons. *J Neurophysiol* 1999;81:682-691.
5. Neubert JK, Maidment NT, Matsuka Y, **Adelson D**, Kruger L, Spigelman I. Inflammation-induced changes in primary afferent-evoked release of substance P within trigeminal ganglia in vivo. *Brain Res* 2000;871:181-91.
6. Lever IJ, Bradbury EJ, Cunningham JR, **Adelson DW**, Jones MG, McMahon SB, Marvizon JCG, Malcangio M. Brain-derived neurotrophic factor is released in the dorsal horn by distinctive patterns of afferent fiber stimulation. *J Neuroscience* 2001;21:4469-4477.
7. Chen C-Y, Million M, **Adelson DW**, Rivier J, Taché Y. Intracisternal urocortin inhibits vagally stimulated gastric contractility through CRF2. *British J Pharmacol* 2002;136:237-247.
8. Glatzle J, Wang Y, **Adelson DW**, Kalogeris T J, Zittel TT, Tso P, Wei JY, Raybould HE. Chylomicron components activate a vagal afferent reflex pathway to inhibit gastric motor function. 2003; *J Physiol* 550:657-54
9. **Adelson DW**, Million M, Kanamoto K, Palanca T, Taché Y. Coordinated gastric and sphincter motility evoked by intravenous CCK-8 as monitored by ultrasonomicrometry. 2004; *Am J Physiol*. 286:G321-32.

Director/Principal Investigator (Last, First, Middle): Rozengurt, Juan Enrique

10. **Adelson DW**, Million M. Tracking the moveable feast: sonomicrometry and gastrointestinal motility. *News Physiol. Sci.* 2004; 19:27-32.
11. Million M, Maillot C, **Adelson D**, Nozu T, Gauthier A, Rivier J, Chrousos GP, Bayati A, Mattsson H, Taché Y. Peripheral injection of sauvagine prevents repeated colorectal distension-induced visceral pain in female rats. *Peptides* 2005;26:1188-95.
12. Kawakubo K, Akiba Y, **Adelson D**, Guth PH, Engel E, Taché Y, Kaunitz JD. Role of gastric mast cells in the regulation of central TRH analog-induced hyperemia in rats. *Peptides* 2005;26:1580-9.
13. Million M, Wang L, Wang Y, **Adelson DW**, Yuan PQ, Maillot C, Coutinho SV, McRoberts JA, Bayati A, Mattsson H, Wu VS, Wei JY, Rivier J, Vale W, Mayer EA, Taché Y. CRF2 receptor activation prevents colorectal distension-induced visceral pain and spinal ERK1/2 phosphorylation in rats. *Gut* . 2006 55:172-81
14. Gourcerol G, Million M, **Adelson DW**, Wang Y, Wang L, Rivier J, St-Pierre DH, Tache Y. Lack of interaction between peripheral injection of CCK and obestatin in the regulation of gastric satiety signaling in rodents. *Peptides* 2006; 27:2811-2819.
15. **Adelson DW**, Kosoyan, HP, Wang Y, Steinberg JZ, Tache Y. Gastric vagal efferent inhibition evoked by intravenous CRF is unrelated to simultaneously recorded vagal afferent activity in urethane-anesthetized rats. *J. Neurophysiol.* 2007; 97:3004-14.
16. Rivier J, Gulyas J, Kunitake K, DiGruccio M, Cattle JP, Perrin MH, Donaldson C, Vaughan J, Million M, Gourcerol G, **Adelson DW**, Rivier C, Tache Y, Vale W. Stresin1-A, a potent corticotropin releasing factor receptor 1 (CRF1)-selective peptide agonist. *J. Med. Chem.* 2007;50:1668-74.
17. Million M, Wang L, **Adelson DW**, Roman F, Diop L, Taché Y. Pregabalin decreases visceral pain and prevents spinal neuronal activation in rats. *Gut.* 2007; 56:1482-4.

C. Research Support

Ongoing Research Support

1 R21 DK074736-02, Adelson (PI)
NIH/NIDDK

04/15/06 – 03/31/09

Novel Direct Vago-Vagal Recording of I.V. Ghrelin Action

The overall objectives of this application are to investigate the detailed visceral neuronal signaling evoked by systemic ghrelin administration using a combination of two novel techniques recently developed by our group: gastric ultrasonomicrometry to monitor motility and a unique dual recording technique allowing simultaneous monitoring of single unit vagal efferent and afferent activity.

Role: PI

R01DK078676 Mulugeta M (PI)
NIH/NIDDK

04/01/08 – 03/31/13

Modulation of Colonic Response to Stress By Peripheral CRF₂ receptors.

The goals of this project are to determine the role and mechanisms of peripheral CRF₂ receptors on the coping response of the colon to stress and visceral pain.

Role: Investigator

VA Merit Review Yang (PI) 10/01/07-09/30/11

Brainstem Mechanism of Altered Insulin Secretion in Type 2 Diabetes

Role: Investigator

Completed Research Support

1 R21 DK068155-01A1, Mulugeta (PI)
NIH/NIDDK

08/15/05 – 07/31/07

Director/Principal Investigator (Last, First, Middle): Rozengurt, Juan Enrique

Modulation of Colonic Response to Stress by Peripheral CRF₂ Response The major goals of this project are to determine the role of peripheral CRF₂ receptors on the coping response of the colon to stress and visceral pain response.

Role: Investigator

NIH P50 AA11999, Tsukamoto (PI)

01/01/07 - 12/31/07

NIH/NIA AA

Neural Mechanisms Potentiating CCK-Induced Pancreatitis In Ethanol-Fed Rats

The goals are to evaluate the mechanisms underlying the development of acute pancreatitis.

Role: Investigator