

## Curriculum Vitae

Notarization. I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature \_\_\_\_\_ Date \_\_\_\_\_

### **I. Personal Information**

#### I.A. UID, Last Name, First Name, Middle Name, Contact Information

*Include mailing address, email, URL*

100014839, Castonguay, Thomas, William

#### HOME ADDRESS:

6406 Waveland Way  
Columbia, Maryland 21045  
Phone: (410) 381-6081

#### WORK ADDRESS:

Department of Nutrition  
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University of Maryland  
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Phone: (301) 405-4503 Office  
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URL: <http://nfsc.umd.edu/people/faculty/thomas-w-castonguay-phd>

#### I.B. Academic Appointments at UMD

*Include specific dates*

Professor of Nutrition, Department of Nutrition and Food Science, University of Maryland,  
August, 1994 to present

Associate Professor of Nutrition, Department of Nutrition and Food Science, University of  
Maryland, August, 1988 to August, 1994

#### I.C. Administrative Appointments at UMD

*Include specific dates*

Associate Dean of the Graduate School, UMD, August 2010 to September 2011

Interim Associate Dean of the Graduate School, UMD August 2008 – July 2010

Director, Graduate Program in Nutrition, Department of Nutrition and Food Science, University  
of Maryland, January 1996 to August 1998

Associate Professor of Nutrition, Department of Nutrition and Food Science, University of Maryland, August, 1988 to August, 1994

I.D. Other Employment

*Include specific dates*

Sabbatical, Visiting Professor, Obesity Research Center, Department of Psychiatry, University of Cincinnati, June '02 – December '02

Sabbatical, Special Volunteer, National Institute on Alcohol Abuse and Alcoholism, Fall Semester 1995

Guest Scientist, Department of Clinical Neuroendocrinology, National Institute of Mental Health, Bethesda, MD 1990 -1993

Assistant Director, Food Intake Laboratory, UC Davis 1982-1988

Associate Research Nutritionist, Nutrition Department, University of California at Davis, July, 1988

Assistant Research Nutritionist, Nutrition Department, University of California at Davis, Aug 1982 June 1988

Visiting Assistant Professor, Psychology Department, University of California at Davis, Spring Quarter, 1981

Post Doctoral Fellow in Nutrition, University of California at Davis, under the direction of Dr. J. S. Stern, 1980 1982

Research Psychologist, Gaines Nutrition Center, General Foods Corporation, 1979 1980

Post Doctoral Fellow, Florida State University, under the direction of Drs. L. M. Biedler and J. C. Smith, 1978 1979

I.E. Educational Background

*Include dates, degrees, and institutions*

BA in Psychology: Framingham State College, 1973

MA in Experimental/Physiological Psychology: Mount Holyoke College, 1975.

Ph.D. in Physiological Psychology: Rutgers University, 1978

Post Doctoral Fellow in the Chemical Senses, Florida State University, 1978 to 1979

Post Doctoral Fellow in Nutrition, University of California at Davis, 1980 to 1982

## I.F. Professional Certifications and Licenses

### **II. Research, Scholarly and Creative Activities**

*a ^ (caret) designates the author with intellectual leadership on jointly authored papers (if it can be appropriately ascertained).*

*a # (hash tag) to identify co-authors you mentored as undergraduate and graduate students, postdoctoral researchers, faculty research assistants, and junior faculty.*

*an \* (asterisk) to identify which author is the corresponding author*

#### II.A. Books (include full citation information and ISBN)

II.A.1. Books Authored (*specify original or revised edition*)

II.A.2. Books Edited

II.A.3. Books Translated (*as translator*)

II.A.4. Textbooks

II.A.5. Major Reference Works

II.A.6. Exhibition Catalogs

II.A.7. Other

2008 T.W. Castonguay\* et al. . Nutrition Applications Workbook 3/e. To accompany Understanding Nutrition 9<sup>th</sup> Ed. Wadsworth Thompson Learning Inc. Belmont, CA,

#### II.B. Chapters

II.B.1. Books

1983 Castonguay\*^, T. W., E. A. Applegate#, D. E. Upton# and J. S. Stern. Hunger and appetite: old concepts/new distinctions. In: Present Knowledge in Nutrition, R.Olson (Ed.), Nutrition Foundation, New York; pp.25 34. Also appeared in Nutrition Reviews 41: 101 110.

1986 Castonguay, T. W. and J. S. Stern. Physiological determinants of food selection. Food and Agricultural Research Opportunities to Improve Human Nutrition. A. R. Doberenz, J. A. Milner and B.S. Schweigert, Eds., College of Human Resources, University of Delaware, A87 A99.

1986 Gietzen, D. W., P. M. B. Leung, T. W. Castonguay, W. J. Hartman, and Q.R. Rogers. Time course of food intake and plasma and brain amino acid concentrations in rats fed amino acid imbalanced or deficient diets. In: Interaction of the Chemical Senses with Nutrition. J. G. Brand and M. R. Kare, Eds., Academic Press, Inc., New York, NY, pp. 415 456.

1987 Castonguay, T. W. Diet Selection: Principles, rules and suggestions. In: Methods and Techniques to Study Feeding and Drinking Behavior, N. Rowland and F. Toates, Eds., Elsevier Science Publishers, New York, pp. 429 441.

1988 Stern, J. S., T. W. Castonguay and Q. R. Rogers. Physiological regulation of intakes of carbohydrate, fat, and protein. In: Diet and Obesity: Metabolic Basis for Obesity and Its Prevention. G. Bray, J. LeBlanc, S. Inoue and M. Suzuki, Eds. Japan Scientific Societies Press, Tokyo, pp 51 60.

- 1990 Castonguay, T. W. and J. S. Stern. Nutritional aspects of diet on acute behavior studies of animals. In: Diet and Behavior: A workshop on methodologies. Edited by G. H. Anderson. ILSI NF Press, Washington DC. pp 113 121.
- 1990 Castonguay, T.W. and J.S. Stern. Hunger and appetite. In: Present Knowledge in Nutrition, M.L. Brown (Ed.), International Life Sciences Institute Nutrition Foundation, Washington, DC pp 13 22.
- 1993 Kalogeris, T. and T.W. Castonguay. Assessment of feeding behavior. In: Methods in Neurosciences, Volume 14: Paradigms for the study of behavior. Michael Conn (ed.). Academic Press, New York, pp 297 308.
- 1999 Castonguay, T.W. and L.M. Brown. Effects of food deprivation, starvation and exercise on dietary selection in the rat. In: Metabolically Driven Changes in Macronutrient Selection. H. Berthoud and R. Seeley (eds.) CRC Press, Boca Raton, pp 219 - 232.
- 2007 Woods\*, S.C. and T.W. Castonguay<sup>^</sup>. Neuroendocrine mechanisms of energy balance. In: Foraging. David Stephens, (ed.) New York: Academic Press Pp 223-230.
- 2012 Colley#, D., E. London#, B. Jiang#, J. Khural# and T.W. Castonguay<sup>^</sup>\*. Fructose and the control of food intake. In: Fructose: Synthesis, Functions and Health Implications. B. M. Johnston and A.B. Collins (eds.) Nova Science Publishers Hauppauge, NY. Pp 129-143 .
- 2013 Campbell#, E., A. Schlappal#, E. Geller# and T.W.Castonguay<sup>^</sup>\*. Fructose-induced hypertriglyceridemia – a review. In: Nutrition in and prevention and treatment of abdominal obesity. R. Watson, (ed.), Elsevier Press, New York. Pp 197-205.
- 2013 Hudgins#, S., A. Schlappal# and T.W. Castonguay<sup>^</sup>\*. Appetite and reward signals in the brain: sugar intake effects on brain activity as measured by functional magnetic resonance imaging. In: Nutrition in and prevention and treatment of abdominal obesity. R. Watson, (ed.), Elsevier Press, New York. Pp 307-314.
- 2015 Zhao#, C. and T.W. Castonguay<sup>^</sup>\*. Selenium Binding Protein 1: A Moonlighting Protein. In: Foods in Dietary Supplements in the Prevention and Treatment of Disease in Older Adults. R. Watson, (ed.), Elsevier Press, New York. DOI : <http://dx.doi.org/10.1016/B978-0-12-418680-4.00020-8>, pp 203-210.

II.B.2. Collections

II.B.3. Encyclopedia

II.B.4. Series

II.B.5. Research Paper

- 2006 Moore#, J., E. Parsons# and T. Castonguay<sup>^</sup>\*. 11  $\beta$  Hydroxysteroid Dehydrogenase -1 message in liver and adipose tissue of obese and lean Zucker rats. In Epicentre Forum. K. Kramer (ed.) Madison, WI.

## II.B.6. Other

### II.C. Articles in Refereed Journals

*Full citation, inclusive of all authors in the order of publication and page numbers. Review articles and invited articles should be so identified. Optional: include DOI.*

1. 1980 Smith, J. C., T. W. Castonguay, D. F. Foster and L. M. Bloom. A detailed analysis of glucose and saccharin drinking in the rat. *Physiology and Behavior* 24: 173 176.
2. 1980 Hill, W., T. W. Castonguay and G. Collier. Taste or diet balancing? *Physiology and Behavior* 24: 765 767.
3. 1981 Castonguay, T. W., E. Hirsch and G. Collier. Palatability of sugar solutions and dietary selection? *Physiology and Behavior* 27: 7 12.
4. 1981 Castonguay, T. W. Dietary dilution and intake in the cat. *Physiology and Behavior* 27: 547 549.
5. 1982 Castonguay, T. W., W. J. Hartman, E. A. Fitzpatrick and J.S. Stern. Dietary self selection and the Zucker rat. *Journal of Nutrition* 112: 796 800.
6. 1982 Castonguay T. W., D. E. Upton, P. M. B. Leung and J. S. Stern. Meal patterns in the genetically obese Zucker rat: a reexamination. *Physiology and Behavior* 28: 911 916.
7. 1983 Castonguay, T. W. and J. S. Stern. The effect of adrenalectomy on dietary component selection by the genetically obese Zucker rat. *Nutrition Reports International* 28: 725 731.
8. 1984 Castonguay, T. W., S. L. Burdick, M. A. Guzman, G. H. Collier and J. S. Stern. Self selection and the obese Zucker rat: the effect of dietary fat dilution. *Physiology and Behavior* 33:119 126.
9. 1984 Stern, J. S., L. Grivetti and T. W. Castonguay. Energy intake: uses and misuses. *International Journal of Obesity* 8: 535 541.
10. 1984 Stern, J. S., T. Inokuchi, T. W. Castonguay, S. J. Wickler, and B. A. Horwitz. Scapular brown fat removal enhances development of adiposity in cold exposed obese Zucker rats. *American Journal of Physiology* 247: R918 R926.
11. 1984 Bellinger, L. L., V. E. Mendel, F. E. Williams and T. W. Castonguay. The effect of liver denervation on meal patterns, body weight and body composition of rats. *Physiology and Behavior* 33: 661 667.
12. 1984 Castonguay, T. W., M. Dallman and J. S. Stern. Corticosterone prevents body weight loss and diminished fat appetite following adrenalectomy. *Nutrition and Behavior* 2: 115 125.
13. 1984 Rashotte, M. E., J. C. Smith, T. Austin, C. Pollitz, T. W. Castonguay and L. Jonsson. Twenty four hour free feeding patterns of dogs eating dry food. *Neuroscience and Biobehavioral Reviews* 8: 205 210.

14. 1985 Castonguay, T. W., S. Phillips and G. Collier. Procurement cost and dietary selection. *Nutrition and Behavior* 2: 201 211.
15. 1985 Willer, V., T. W. Castonguay, M. Dallman and J. S. Stern. Flavor, forced choice and deprivation affects corticosterone selection by the adrenalectomized rat *Physiology and Behavior* 35: 53 59.
16. 1985 Freedman, M. R., T. W. Castonguay and Judith S. Stern. Effect of adrenalectomy and corticosterone replacement on meal patterns of Zucker rats. *American Journal of Physiology* 249: R584 R596.
17. 1985 Castonguay, T. W., N. Rowland and J. S. Stern. Nutritional influences of dietary selection patterns of obese and lean Zucker rats. *Brain Research Bulletin* 14: 625 631.
18. 1986 Castonguay, T. W., M. F. Dallman and J. S. Stern. Some metabolic and behavioral effects of adrenalectomy on the obese Zucker rat. *American Journal of Physiology* 251: R923 R933.
19. 1986 Kawamoto, J. C., T. W. Castonguay, C. L. Keen, J. S. Stern and L. S. Hurley. Age, sex, and reproductive status alter the severity of anorexia in zinc deficient rats. *Physiology and Behavior* 38: 485 493.
20. 1986 Bellinger, L. L., V. E. Mendel, L. L. Bernardis and T. W. Castonguay. Meal patterns of rats with dorsomedial hypothalamic nuclei lesions or sham operations. *Physiology and Behavior* 36: 693 698.
21. 1986 Castonguay, T. W. and G. H. Collier. Diet balancing: some limitations. *Nutrition and Behavior* 3: 43 55.
22. 1986 Castonguay, T. W., L. L. Kaiser and J. S. Stern. Meal pattern analysis: artifacts, assumptions, and implications. *Brain Research Bulletin* 17: 439 443.
23. 1987 Castonguay, T. W. and L. L. Bellinger. Capsaicin and its effects upon meal patterns, and glucagon and epinephrine suppression of food intake. *Physiology and Behavior* 40:337 342.
24. 1988 Rabinowitz, L., T. W. Castonguay and J. Rutledge. The effects of potassium and aldosterone on the food intake of adrenalectomized rats. *Physiology and Behavior* 42: 137 140.
25. 1988 Oster, M. H., T. W. Castonguay, C. L. Keen, and J. S. Stern. Circadian rhythm of corticosterone in diabetic rats. *Life Sciences* 43: 1643 1645.
26. 1990 Bligh, M.E., M.B. DeStefano, S.K. Kramlik, L.W. Douglass, P. Dubuc, and T.W. Castonguay. Adrenal modulation of the enhanced fat intake subsequent to fasting. *Physiology and Behavior* 48: 373 381.

27. 1991 DeStefano, M., J.S. Stern and T.W. Castonguay. Effect of chronic insulin administration on food intake and body weight in rats. *Physiology and Behavior* 50: 801-806.
28. 1991 Castonguay, T.W. Glucocorticoids as modulators in the control of feeding. *Brain Research Bulletin* 27: 423-428.
29. 1991 Beverly, J.L., M.H. Oster, T.W. Castonguay, and J.S. Stern. Dietary fat, hypothalamic glutamate decarboxylase and food intake of streptozotocin diabetic rats. *American Journal of Physiology* 261: R1554-R1559.
30. 1992 Bray, G.A., J.S. Stern, and T.W. Castonguay. Effect of adrenalectomy and high fat diet on the fatty (Zucker) rat. *American Journal of Physiology* 262: E32-E39.
31. 1992 Coscina, D., T.W. Castonguay, and J.S. Stern. Effects of increasing brain GABA on the meal patterns of genetically obese vs. lean Zucker rats. *International Journal of Obesity* 16: 425-433.
32. 1992 Kamara, K., A.K. Kamara, and T.W. Castonguay. A re-examination of the effects of intracerebroventricular glucocorticoids in adrenalectomized rats. *Brain Research Bulletin* 29:355-358.
33. 1993 Bligh, M.E., L.W. Douglass and T.W. Castonguay. Corticosterone modulation of dietary selection patterns. *Physiology and Behavior* 53: 975-982.
34. 1993 Kramlik, S.K., M. Altemus, and T.W. Castonguay. The effects of the acute administration of RU 486 on dietary fat preference in fasted lean and obese men. *Physiology and Behavior* 54: 717-724.
35. 1993 Bernardini, J., K. Kamara, and T.W. Castonguay. Macronutrient choice following food deprivation: The effect of dietary fat dilution. *Brain Research Bulletin* 32: 543-548.
36. 1993 Bligh, M.E., S.A. Bhagwat and T.W. Castonguay. Aldosterone diurnal rhythm in the rat: A question of cross reactivity? *Physiology and Behavior* 53: 845-848.
37. 1993 Bligh Tynan, M.E., S.A. Bhagwat, and T.W. Castonguay. The effects of chronic cold exposure on diurnal corticosterone and aldosterone rhythms in Sprague-Dawley rats. *Physiology and Behavior* 54:363-367.
38. 1993 McHugh, K., S.M. Collins, T.W. Castonguay and H.P. Weingarten. Characterization of suppression of food intake following acute colon inflammation in the rat. *American Journal of Physiology* 265: R1001-R1005.
39. 1994 Bellinger, L.L., T.W. Castonguay and L. Bernardis. Hormone and somatic changes in rats pair fed by computer operated feeders to growth retarded dorsomedial hypothalamic nuclei lesioned rats. *Brain Research Bulletin* 34: 117-124.

40. 1994 Hamelink, C. R., P.J. Currie, J.W. Chambers, T.W. Castonguay, and D.V. Coscina. Corticosterone responsive and unresponsive metabolic characteristics of adrenalectomized rats. *American Journal of Physiology* 267: R799-R804.
41. 1995 Trocki, O., D. J. Baer, and T.W. Castonguay. An evaluation of the use of total body electrical conductivity for the estimation of body composition in adult rats: Effect of diet, obesity and adrenalectomy. *Physiology and Behavior* 57: 765-772.
42. 1995 Trocki, O., D.J. Baer, and T.W. Castonguay. Comparison of effects of adrenalectomy and RU 486 in rats given a choice of maintenance diet and fat supplement. *American Journal of Physiology* 269: R708-R719.
43. 1996 Moshirfar, A., K.S. Kamara, and T.W. Castonguay. Intragastrically administered tryptophan blocks gluconeogenesis in 48h starved rats. *Journal of Nutritional Biochemistry* 7: 567-570.
44. 1998 Kamara, K. R. Eskay and T.W. Castonguay. High fat diets and stress responsivity. *Physiology and Behavior* 63: 78-83.
45. 1999 Potter, G, A. Moshirfar, and T.W. Castonguay. Insulin affects dopamine overflow in the nucleus accumbens and the striatum. *Physiology and Behavior* 65: 811-816.
46. 1999 Mukherjea, R., T.W. Castonguay, and P.B. Moser-Veillon. Elevated leptin concentrations in pregnancy and lactation: possible role as a modulator of substrate utilization. *Life Sciences* 65: 1183-1193.
47. 1999 Schwartz, G.J., A. Whitney, C. Skoglund, T.W. Castonguay and T.H. Moran. Decreased sensitivity to dietary fat in Otsuka Long Evans Tokushima Fatty (OLETF) rats lacking CCKA receptors. *American Journal of Physiology* 277: R1144-R1151.
48. 1999 Edens, N.E., A. Moshirfar, G.M. Potter, S.K. Fried and T.W. Castonguay. Adrenalectomy reduces adiposity by decreasing feed efficiency, not direct effects on white adipose tissue. *Obesity Research* 7: 395-401.
49. 2000 Habash, T., R.L. Eskay, W.J. Kuenzel and T.W. Castonguay. Some interactions of glucocorticoids, NPY and hypothalamic serotonin. *Nutritional Neuroscience* 3: 183-192.
50. 2000 Yeung, S.K. and T.W. Castonguay. The effect of Neuropeptide Y on hypothalamic serotonin overflow. *Nutritional Neuroscience* 3: 373-381.
51. 2001 Bai, H. and T.W. Castonguay. Effects of adrenalectomy and hormone replacement on B6CF1 mice fed a high fat diet. *Physiology and Behavior* 72: 493-498.
52. 2002 VanderWeele, D.A., N.K. Dess and T.W. Castonguay. Ingestional responses to metabolic challenges in rats selectively bred for high and low saccharin intake. *Physiology and Behavior* 75: 97-104.



53. 2002 Castonguay, T.W. S. Beaulieu, R.L.Eskay, N. Barden, K. Kamara, S. Khozin, L. Lustberg and L. Brown. The effects of adrenalectomy and aldosterone replacement in transgenic mice expressing antisense RNA to the Type-2 glucocorticoid receptor. *Physiology and Behavior* 77: 417-423.
54. 2003 Gemmill, M.E., R.L. Eskay, N.L. Hall, L.W. Douglass and T.W. Castonguay. Effect of leptin on food intake and body weight in adrenalectomized rats with corticosterone replacement. *Journal of Nutrition* 133: 504-509.
55. 2003 Roth, M. J., D. J. Baer, T.W. Castonguay, J.T. Judd, J.F. Dorgan, S.M. Dawsey, E.D. Brown, T.J. Hartman, D.K. Corle, W.S. Campbell, C.A. Giffen, P.R. Taylor The association between serum leptin and alcohol consumption in a controlled feeding study. *Journal of the National Cancer Institute* 95: 1722-1725.
56. 2007 E.London#, G. Lala#, R.Berger#, A. Panzenbeck#, A.A. Kohli#, M. Renner#, A. Jackson#, T. Raynor#, K. Loya# and T.W.Castonguay^\*. Sucrose access differentially modifies 11 $\beta$ -hydroxysteroid dehydrogenase-1 and hexose-6-phosphate dehydrogenase message in liver and adipose tissue in rats. *Journal of Nutrition* 137: 2616-2621.
57. 2009 London#, E. and T.W. Castonguay^\*. Diet and the role of 11 $\beta$ -hydroxysteroid dehydrogenase -1 on obesity *Journal of Nutritional Biochemistry* 20(7):485-93. Epub 2009 May 14.
58. 2011 London#, E. and T.W. Castonguay^\*. High fructose diets increase 11 beta hydroxysteroid dehydrogenase type 1 in liver and visceral adipose in rats within 24-h exposure. *Obesity* 19: 925-932. doi:10.1038 /oby.2010.284
59. 2011 Brown##\*, L.M., C.T. Hansen, A. F. Huberty, T. W. Castonguay^ Traits of the metabolic syndrome alter corpulent obesity in LAN, SHR and DSS rats: Behavioral and metabolic interactions with adrenalectomy. *Physiology and Behavior*. 103(1): 98-103. Epub 2010 Dec 31.
60. 2015 Colley#, D.L., T.W. Castonguay^\*. Effects of sugar solutions on hypothalamic appetite regulation. *Physiology & Behavior*, 139 (2):202-209. DOI information: 10.1016/j.physbeh.2014.11.025
61. 2015 Campbell#, E.S. and T.W. Castonguay\*^. Fructose intake and circulating triglycerides: an examination of the role of APOC 3. *Journal of Diabetes and Obesity* (in press).
62. 2015 Zhao#, C., E.S. Campbell#, A.E. Schlappal# and T.W. Castonguay^\*. The expression of hypothalamic neuropeptides in response to different sugars. *Journal of Food Science and Nutrition Research*, 3(1): 69-76 .
63. 2015 Schlappal#, A.E., C. Zhao# and T.W. Castonguay^\*. Fructose increases liver 11 beta-hydroxysteroid dehydrogenase mRNA within 24h. *British Journal of Nutrition* (submitted).

64. 2014 Zhao#, C., A. Schlappal# and T.W. Castonguay<sup>^\*</sup>. Regional mRNA expression of 11b hydroxysteroid dehydrogenase type 1 in the hypothalamus of Sprague Dawley rats. Neuroscience Research (in press).

II.D. Published Conference Proceedings

II.D.1. Refereed Conference Proceedings

II.D.2. Non-Refereed Conference Proceedings

II.D.3. Historical Conference Proceedings (10+ years ago)

II.D.4. Other

Invited Commentary

1985 Castonguay, T. W. Studies of food choice: the nutritional challenge. Behavioral and Brain Sciences Target article: Choice, optimal foraging and the delay reduction hypothesis. by E. Fantino and N. Abarca 8: 334-335.

## II.E. Conferences, Workshops, and Talks

### II.E.1. Keynotes

### II.E.2. Invited Talks

1. 1984 Castonguay, T. W. Corticosterone prevents body weight loss and diminished fat appetite following adrenalectomy. Paper presented at the Annual Meetings of the Western Psychological Association, Los Angeles, CA.
2. 1985 Stern, J. S. and T. W. Castonguay. Physiological determinants of food selection. Paper presented at the Western Regional USDA Conference on Health and Diet, Davis, CA.
3. 1986 Castonguay, T. W. and J. S. Stern. Metabolic state and food choice. Paper presented at the Joint Meeting of the American Institute of Nutrition, American Society of Clinical Nutrition, and the Canadian Society for Nutritional Sciences, Davis, CA. *Journal of Nutrition* 116:~ii.
4. 1987 Castonguay, T. W. Meal pattern analysis: theoretical and applied considerations. Poster presented at the Second World Congress of Neuroscience, Budapest, Hungary. *Neuroscience* 22 (supplement): S496.
5. 1987 Castonguay, T. W. and J. S. Stern. Meal pattern analysis and the obese Zucker rat: New insights. Paper presented at "Appetite, thirst and related disorders," a Satellite Symposium of the Annual Meeting of the Society for Neuroscience, San Antonio, TX.
6. 1988 Rowland, N. E., A. M. Souquel and T. W. Castonguay. Long-term administration of dexfenfluramine (DF) in rats: Therapeutic implications. Paper presented at the B. Franklin/Lafayette Seminar on Food Intake. La Napoule, France.
7. 1990 Castonguay, T.W., M.E. Bligh, M. DeStefano, T. Ton, and G. Schlabach. Adrenocortical control of dietary food item choice. 6TH International Congress on Obesity, Kobe, Japan.
8. 1990 Castonguay, T.W. Glucocorticoids as modulators in the control of feeding. Symposium on Regulation of Food Intake, Metabolism and Energy Balance. Yashiro, Japan.
9. 1993 Trocki, O., D.J. Baer, and T.W. Castonguay. Hyperphagia is not essential in inducing dietary obesity in adult rats. Paper presented at the Second International Behavioral Neuroscience Conference. Tampa, FL.

10. 2012 Castonguay, T.W. The Stern approach to the study of the controls of food intake: An update. Paper presented at the 1<sup>st</sup> Annual Judith S. Stern Symposium on Obesity and Nutrition. Davis CA.
11. 2013 Castonguay, T.W. The root of the sweet tooth. Paper presented at the annual College of Agriculture and Natural Resources Convocation, University of Maryland, College Park, MD.

### II.E.3. Refereed Presentations

### II.E.4. Refereed Abstracts

1. 1976 Castonguay, T. W. and E. Hirsch. Carbohydrate induced overeating and obesity in the intact rat. Paper presented at 47th Annual Meetings of the Eastern Psychological Association, New York, NY. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 47: 53.
2. 1977 Castonguay, T. W., M. Medvin and V. K. Mast. Carbohydrate dilution of high protein diets and the selection paradigm: More evidence for the nutritional balance perspective. Paper presented at the 48th Annual Meetings of the Eastern Psychological Association, Boston, MA. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 48:101.
3. 1978 Castonguay, T. W. Some nutritional determinants of sucrose intake in the rat. Paper presented at the 86th Annual Meetings of the American Psychological Association, Toronto, Canada. Proceedings and Abstracts of the Annual Meeting of the American Psychological Association 86: 109.
4. 1978 Hill, W. L. and T. W. Castonguay. Palatability, preferences or diet balancing? Paper presented at the 86th Annual Meetings of the American Psychological Association, Toronto, Canada. Proceedings and Abstracts of the Annual Meeting of the American Psychological Association 86: 109.
5. 1979 Castonguay, T. W. The effect of acquisition cost on dietary selection. Paper presented at the 50th Annual Meetings of the Eastern Psychological Association, Philadelphia, PA. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 50:147.
6. 1979 Smith, J. C., T. W. Castonguay and D. F. Foster. A detailed study of the drinking of glucose and saccharine mixtures in the rat. Paper presented at the meetings of the Association for Chemoreception Sciences, Sarasota, Florida.
7. 1982 Castonguay, T. W. and J. S. Stern. Dietary self selection and the Zucker rat. Paper presented at the 53rd Annual Meetings of the Eastern Psychological Association, Baltimore, MD. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 53: 73.
8. 1982 Castonguay, T. W. and J. S. Stern. Dietary component selection by genetically obese and lean Zucker rats: the effect of adrenalectomy. Paper presented at the 12th Annual Meetings of the Society for Neuroscience, Minneapolis, MN.
9. 1983 Castonguay, T. W., M. Guzman and J. S. Stern. Fat intake and the obese Zucker rat: further observations. Paper presented at the 54th Annual Meetings of the Eastern Psychological Association, Philadelphia, PA. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 54: 58.

10. 1983 Stern, J. S., S. Brown, K. Stanhope, J. Uriu, T. W. Castonguay and G. A. Bray. Adrenalectomy reduces weight gain, adipose cell size and lipoprotein lipase activity in obese male Zucker rats (fafa). Paper presented at the Federation of American Societies for Experimental Biology, Chicago, IL Federation Proceedings 42: 393.
11. 1983 Stern, J. S., T. W. Castonguay, S. Brown, K. Stanhope and G. A. Bray. Adrenalectomy reduces caloric and fat intake and body weight gain in genetically obese Zucker rats (fafa). Paper presented at the International Conference on the Physiology of Food and Fluid Intake, Melbourne, Australia. Appetite 4: 227
12. 1984 Castonguay, T. W., M. Dallman and J. S. Stern. Corticosterone and the fat appetite of the adrenalectomized obese Zucker rat. Paper presented at the 55th Annual Meeting of the Eastern Psychological Association, Baltimore, MD. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 55: 167.
13. 1984 Atkinson, R. L., D. C. Chen, M. Freedman, T. W. Castonguay and J. S. Stern. Ileal transposition in Zucker fatty rats. Paper presented at the Western Regional Meeting of the American Federation of Clinical Research, Carmel, CA. Clinical Research 32: 57A (1984).
14. 1985 Freedman, M. R., T. W. Castonguay and J. S. Stern. Meal patterns in adrenalectomized lean and obese Zucker rats. Paper presented at the 56th Annual Meetings of the Eastern Psychological Association, Boston, MA. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 56: 38.
15. 1985 Castonguay, T. W., W. C. Newmark, S. L Dixon and J. S. Stern. The effect of deprivation upon dietary component selection of obese and lean Zucker rats. Paper presented at the 56th Annual Meetings of the Eastern Psychological Association, Boston, MA. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association 56: 10.
16. 1985 Freedman, M. R., T. W. Castonguay and J. S. Stern. Adrenalectomy alters development of obesity and alters meal patterns in Zucker obese rats. Paper presented at the meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA. Federation Proceedings 44: 546.
17. 1985 Castonguay, T. W. Diet balancing, palatability and obesity. Paper presented at the 93rd Annual Meetings of the American Psychological Association, Anaheim CA. Appetite 7: 198.
18. 1986 Castonguay, T. W., C. Harper, M. Lemp, W. Newmark and J. S. Stern. Dietary glucocorticoid interactions in the control of macronutrient selection. Paper presented at the 57th Annual Meetings of the Eastern Psychological Association, New York, NY.
19. 1986 Castonguay, T. W., T. N. Sklar and J. S. Stern. Sucrose access permits increased weight gain in adrenalectomized rats. Paper presented at the IXth International Conference on the Physiology of Food and Fluid Intake, Seattle, WA.
20. 1986 Fournier, L., N. Cortez, B. J. Moore, K.S. Kott, T. W. Castonguay, B. Horwitz and J. S. Stern. Is a 12:12 (L:D) photoperiod appropriate for studies of food intake? Paper presented at the IXth International Conference on the Physiology of Food and Fluid Intake, Seattle, WA.
21. 1986 Castonguay, T. W., M.F. Freedman, T. N. Sklar, and J. S. Stern. Diet adrenal interactions in the expression of obesity. Paper presented at the 5th International Congress on Obesity, Jerusalem, Israel.

22. 1986 Fournier, L. M., N. M. Cortez, B. J. Moore, K.S. Kott, T. W. Castonguay, B. A. Horwitz and J. S. Stern. Rats are sensitive to photoperiod and pinealectomy. Paper presented at the 5th International Congress on Obesity, Jerusalem, Israel.
23. 1987 Castonguay, T. W., J. S. Stern, and L. L. Bellinger. Capsaicin and its effects upon meal patterns, glucagon and epinephrine suppression of food intake. Paper presented at the 58th Annual Meeting of the Eastern Psychological Assoc., Arlington, VA
24. 1987 Castonguay, T. W., V. D. Sworts, and J. S. Stern. Hormonal regulation of blood glucose: effects on appetite and growth. Paper presented at the meetings of the Federation of American Societies for Experimental Biology, Washington, D.C.
25. 1987 Castonguay, T. W. and J. S. Stern. Physiological bases of food selection. Symposium at the meetings of the Federation of American Society for Experimental Biology, Washington, D.C.
26. 1987 Castonguay, T. W., L. A. Roth and J. S. Stern. Activity, appetite and weight gain in the adrenalectomized male Zucker rat. Paper presented at the 17th annual meetings of the Society for Neuroscience, New Orleans, LA.
27. 1987 Atkinson, R. L., N. R. Byron, R. B. McDonald, T. W. Castonguay, B. Horwitz and J. S. Stern. Effects of intestinal bypass on weight regulation and energy expenditure in rats. Paper presented at the annual meeting of the North American Society for the Study of Obesity, Boston, MA.
28. 1988 Dubuc, P. and T. W. Castonguay. Self administration of insulin: Effects on feeding. Paper presented at the 59th annual meeting of the Eastern Psychological Association, Buffalo, NY.
29. 1988 Zelikovic, I., R. Martin, T. W. Castonguay, A. L. Friedman and R. W. Chesney. Late peritoneal dialysis (PD) does not improve outcome in sick newborn infants with acute renal failure (ARF). Paper presented at the annual meetings of the Society for Pediatric Research.
30. 1988 Castonguay, Thomas. Pancreatic insulin and amylase in the adrenalectomized rat. Paper presented at the annual meetings of the Society for the Study of Ingestive Behavior, Buffalo, NY.
31. 1988 Castonguay, T. W., R. Safarik, V. D. Sworts, M. F. Dallman, B. Schneeman and J. S. Stern. Some effects of variation in carbohydrate source on adrenalectomized rats. Paper presented at the annual meetings of the North American Association for the Study of obesity, Banff, Alberta, Canada.
32. 1988 Oster, M.H., T.W. Castonguay, C.L. Keen, and J.S. Stern. Circadian rhythm of plasma corticosterone in diabetic rats. Paper presented at the annual meetings of the Society for Neuroscience, Toronto, Ontario, Canada.
33. 1989 Castonguay, T.W., F. Myers, D. Olson, J.S. Stern, and R. Rucker. Self selection of macronutrients in Sprague Dawley and Zucker obese and lean rats. Proceedings and Abstracts of the 60th Annual Meetings of the Eastern Psychological Association. Boston, MA p33.
34. 1989 Castonguay, T.W. and P.U. Dubuc. Insulin self administration: Effects on meal patterns. Paper presented at the Xth International Congress on the Physiology of Food and Fluid Intake. Paris, France.
35. 1989 Castonguay, T.W., M.B. DeStefano, S.K Kramlik, T.T. Ton, J.J. Valeri, and P.U. Dubuc. Corticosterone supplementation in intact Sprague Dawley rats. Paper presented at the Annual Meetings of

the North American Association for the Study of Obesity, Bethesda, MD.

36. 1989 DeStefano, M., T.W. Castonguay, S.K. Kramlik, T.T. Ton, J.J. Valeri, and P.U. Dubuc. The pattern of food choice following food deprivation. Paper presented at the Annual Meetings of the Society for Neuroscience, Phoenix, AZ.

37. 1991 Bligh, M.E. and T.W. Castonguay. Glucocorticoids modulate macronutrient refeeding subsequent to deprivation. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA

38. 1991 Reidelberger, R., G. Varga, T. Castonguay and D.Coy. Potent bombesin receptor antagonist d pHe6 bombesin(6 13) methyl ester stimulates food intake in rats. Paper presented at the meetings of the Soc. for Neuroscience, New Orleans, LA

39. 1991 Bellinger, L.L., T.W. Castonguay and L.L. Bernardis. Hormonal and somatic changes in rats pair fed by computer operated feeders to growth retarded dorsomedial hypothalamic nuclei lesioned (DMNL) animals. Paper presented at the annual meetings of the Society for Neuroscience, New Orleans, LA

40. 1992 Bhagwat, S.A., J.R. Thomas, M.E. Bligh and T.W. Castonguay. The diurnal rhythmicity of plasma aldosterone in the male Sprague Dawley rat. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA.

41. 1992 Bligh, M.E., J.R. Thomas, S.A. Bhagwat and T.W. Castonguay. The effects of food deprivation and chronic cold exposure on macronutrient selection: An endocrine hypothesis. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA.

42. 1992 Kramlik, S.K., M. Altemus, and T.W. Castonguay. Effects of the acute administration of RU 486 on dietary fat preference in fasted lean and obese men. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA.

43. 1992 Kamara, A K., J. Bernardini, K.S. Kamara and T.W. Castonguay. Intracerebral injections of dexamethasone do not reverse the effects of adrenalectomy on body weight gain. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA.

44. 1992 Kamara, A.K., K.S. Kamara, and T.W. Castonguay. Effect of ACTH on weight gain, food intake and plasma glucose concentrations in Sprague Dawley rats. Abstract submitted to the First Meeting of the Society for the Study of Ingestive Behavior, Princeton, NJ June, 1992.

45. 1992 Bernardini, J., K. Kamara, and T.W. Castonguay. The effect of dietary fat dilution on fat preference and macronutrient choice following food deprivation. Paper presented at the First Meeting of the Society for the Study of Ingestive Behavior, Princeton, NJ June, 1992.

46. 1992 Bellinger, L.L., T.W. Castonguay and L.L. Bernardis. Somatic and hormone values in rats pair fed by computer operated feeders to hypophagic dorsomedial hypothalamic nuclei lesioned (DMNL) rats. Paper presented at the First Meeting of the Society for the Study of Ingestive Behavior, Princeton, NJ June, 1992.

47. 1992 Bligh, M.E., S.A. Bhagwat, J.R. Thomas and T.W. Castonguay. The effects of chronic cold exposure on diurnal corticosterone and aldosterone rhythms in Sprague Dawley rats. Paper presented at the annual meetings of the Society for Neuroscience, Anaheim, CA.

48. 1993 Trocki, O., D. Baer, and T. Castonguay. Circadian rhythm of plasma corticosterone is not altered in diet induced obesity in Sprague Dawley rats. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, New Orleans, LA
49. 1993 Hamelink, C., D. Komaragiri, A.K. Kamara and T.W. Castonguay. Effects of single vs. multiple daily doses of cortrosyn on body weight and plasma glucose and corticosterone. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, New Orleans, LA
50. 1993 Bligh Tynan, M.E., S.A. Bhagwat, L.W. Douglass, J.R. Thomas and T.W. Castonguay. The effects of chronic cold stress and food deprivation on adrenal hormones and macronutrient choice. Paper presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, New Orleans, LA
51. 1993 Hamelink, C., P. Curry, B. Wong, J. Chambers, D. Coscina, and T.W. Castonguay. Effect of adrenalectomy (ADX) and corticosterone (CORT) replacement on respiratory exchange ratio (RER) and body weight. Paper presented at the annual meetings of the Society for Neuroscience, Washington, D.C.
52. 1993 Trocki, O., D.J. Baer and T.W. Castonguay. Comparison of the effects of adrenalectomy and RU486 on food intake and weight gain of diet induced obese Sprague Dawley rats. Paper presented at the annual meetings of the Society for Neuroscience, Washington, DC
53. 1994 Potter, G.M. and T.W. Castonguay. Insulin promotes dopamine release in nucleus accumbens and striatum. Paper presented at the annual Experimental Biology meetings, Anaheim, CA.
54. 1994 Dubuc, P.U. and T.W. Castonguay. Subcutaneous RU-486 capsule treatment of diabetes and obesity in dietary restricted C57BL/6 OB/OB mice. Paper presented at the annual Experimental Biology meetings, Anaheim, CA.
55. 1994 Terranella, L.A. and T.W. Castonguay. Adrenal control of hepatic gluconeogenesis in fed and starved rats. Paper presented at the annual Experimental Biology meetings, Anaheim, CA.
56. 1994 Moshirfar, A., K. Kamara and T.W. Castonguay. Intragastrically-administered tryptophan blocks gluconeogenesis in 48h starved rats. Paper presented at the annual Experimental Biology meetings, Anaheim, CA.
57. 1994 Trocki, O., K. Kamara and T.W. Castonguay. Differential effects of adrenalectomy and RU 486 on food intake and gluconeogenesis in starved-refed diet-induced obese rats. Paper presented at the annual Experimental Biology meetings, Anaheim, CA.
58. 1994 Potter, G.M. and T.W. Castonguay. Dose related effect of insulin on subsequent d-amphetamine induced dopamine overflow in the nucleus accumbens and striatum. Paper presented at the Society for Neuroscience meeting, Miami, FL.
59. 1995 Furner, H., N.K. Dess, D.A. VanderWeele and T.W. Castonguay. Low-saccharin-consuming rats, emotionality, stress and corticosterone rhythms. Paper presented at the annual meetings of the Eastern Psychological Association, Boston, MA
60. 1995 K. DeOre, K. Kamara, C. Hansen, O. Michaelis and T. Castonguay. Intracerebroventricular injections of dexamethasone do not promote insulin release in LAN/CP adrenalectomized rats. Paper presented at the annual meetings of the Society for Neuroscience, San Diego, CA



61. 1995 C. Hamelink, R. Daoud, T. Torda, J. Presson, T. Castonguay and R. Eskay. Effect of chronic alcohol consumption on specific stress-axis responsive regions in the central nervous system of the male rat. Paper presented at the annual meetings of the Society for Neuroscience, San Diego, CA
62. 1995 T.W. Castonguay, C. Hamelink, and R. Eskay. Some of the roles of glucocorticoids in the control of food intake and body weight. Paper presented at the NAASO-SSIB annual meeting, Baton Rouge, LA
63. 1996 Moshirfar, A., L. Terranella, O. Trocki, K. Kamara, K. and T.W. Castonguay. A reexamination of the role of the glucocorticoids on gluconeogenesis and their impact on food intake and body weight. Paper presented at the annual meetings of the Society for Neuroscience, Washington, DC
64. 1997 Mukherjea, R., T. W. Castonguay and P. Moser-Veillon. Elevated leptin concentrations in pregnancy and lactation: Possible role as a modulator of substrate utilization. Paper presented at the annual Experimental Biology Meetings, New Orleans, LA.
65. 1997 H. Bai, C. Hamelink, S. Khozin, L. Brown, K. Kamara R. Eskay, S. Beaulieu and T. Castonguay. The effect of adrenalectomy on circulating leptin in obese and lean B6C3F1 mice. Paper presented to the American Society for Clinical Nutrition, Montreal, Canada.
66. 1997 L. Brown, T. Castonguay, T. Habash, K. Kamara, J. Lee, R. Wallace, S. Yeung and C. Hansen. The effect of adrenalectomy on the phenotypic expression of the corpulent (CP) gene in rats. Paper presented at the annual meeting of the Society for the Study of Ingestive Behavior, Baltimore, MD
67. 1997 T.W. Castonguay. Dietary fat and stress responsivity. Paper presented at the annual meeting of the Society for the Study of Ingestive Behavior, Baltimore, MD
68. 1997 H. Bai, S. Beaulieu, R. Eskay, N. Barden, and T. Castonguay. Glucocorticoid modulation of leptin in the rat. Paper presented at the annual meeting of the Society for Neuroscience, New Orleans, LA
69. 1998 L.M. Brown, T.H. Leckliter, S. Yeung, H. Bai, K.S. Kamara, C. Hansen and T. Castonguay. The effects of adrenalectomy on Yellow Obese mice (Avy). Paper presented at the XIth International Congress on the Physiology of Food and Fluid Intake. Pecs, Hungary.
70. 1998 Hamelink, C.R., E.P. Carpenter-Hyland, T.W. Castonguay, and R.L. Eskay. Neither NMDA nor L-type calcium channel blockade prevent alcohol-induced neurodegeneration. *Alcohol Clin. Exper. Res.* 22(3): 64A.
71. 1999 Hamelink, C. E. Carpenter-Hyland, M. Nikodemova, T.W. Castonguay and R.L.Eskay. Unable to link glutamate excitotoxicity to alcohol-induced neurodegeneration. Winter Brain Conference, Aspen, CO.
72. 2000 R.Mukherjea, W. Rumpler, L.W. Douglass, T.W. Castonguay, and P. Moser-Veillon. Decrease in body fat does not effect leptin during lactation. Paper presented at the Experimental Biology Meetings, San Diego, CA
73. 2001 L. Brown, C. Hamelink, and T.W. Castonguay. Chemiluminescent In Situ Hybridization Of The Melanocortin-4 Receptor In Both Lean And Obese Agouti Mice. Paper presented at the Experimental Biology Meetings, Orlando, FL

74. 2001 L.M. Brown, C.T. Hansen, R.L. Eskay, and T.W. Castonguay Chemiluminescent in situ hybridization of the melanocortin-4 receptor in adrenalectomized lean and obese Balb/c-Avy mice. Paper presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Philadelphia, PA

75. 2006 E.Z. Parsons#, E. London#, J. Moore#, D. Mengesha# and T.W. Castonguay<sup>\*</sup> 11  $\beta$  hydroxysteroid dehydrogenase-1 and obesity. Paper presented at the annual meeting of the Society for the Study of Ingestive Behavior, Naples FL

76. 2006 T.W. Castonguay<sup>\*</sup>, E. London#, E. Parsons#, D. Mengesha# and A. Jackson#. Glucocorticoids and different models of obesity. Paper presented at the annual meetings of the Society for Neuroscience, Atlanta, GA.

77. 2007 T. W. Castonguay<sup>\*</sup>, E. London#, G. Lala#, R. Berger#, A. Kohli#, M. Renner#, A. Jackson#, T. Raynor#. Sucrose access differentially modifies 11 $\beta$ -hydroxysteroid dehydrogenase-1 and hexose-6-phosphate dehydrogenase message in liver and adipose tissue in rats. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA

#### II.E.5. Refereed Posters

1. 1981 Mendel, V., L. Bellinger, F. Williams and T. W. Castonguay. Short and long term effects of liver denervation on food intake in the rats. Poster presented at the Haer Institute for Electrophysiological Research Satellite Symposium "The Neural Basis of Feeding and Reward" Los Angeles, CA.

2. 1981 Castonguay, T. W., P. M. B. Leung and J. S. Stern. Intermeal interval minimum meal size and their interactions: a parametric study. Poster presented at the 11th Annual Meetings of the Society for Neuroscience 11th Annual Meeting 7: 873.

3. 1982 Stern, J. S. and T. W. Castonguay. Do Zucker rats regulate protein intake? Poster presented at the meetings of the Federations of American Societies for Experimental Biology, New Orleans. Federation Proceedings 41: 712.

4. 1983 Rogers, Q. R., T. W. Castonguay and P. M. B. Leung. The onset of amino acid imbalance: an operant approach. Poster presented at the VIIIth International Conference on the Physiology of Food and Fluid Intake, Melbourne, Australia. *Appetite* 4: 220 (1983).

5. 1983 Castonguay, T. W., D. E. Upton and J. S. Stern. Some metabolic determinants of food item choice by obese Zucker rats. Poster presented at the meetings of the Federation of American Societies for Experimental Biology, Chicago, IL. Federation Proceedings 42: 550.

6. 1983 Bellinger, L. L., V. E. Mendel, F. E. Williams and T.W.Castonguay. The effect of liver denervation (LD) on meal patterns, body weight (BW), and body composition of rats. Poster presented at the Fall Meeting of the American Physiological Society, Honolulu, Hawaii. *Physiologist* 26: A 105 (1983).

7. 1984. Castonguay, T. W., M. Dallman and J. S. Stern. Corticosterone controls the enhanced fat appetite of the obese Zucker rat. Poster presented at the meetings of the Federation of American Societies for Experimental Biology, St. Louis, MO. Federation Proceedings 43: 1059.

8. 1984 Keen, C. L., D. L. Baly, T. W. Castonguay and B. Lonnerdal. Effects of high doses on manganese

on carbohydrate metabolism in rats. Poster presented at the meetings of the Federation of American Societies for Experimental Biology, St. Louis, MO. Federation Proceedings 43: 1053.

9. 1984 Kawamoto, J., T. W. Castonguay, C. L. Keen, J. S. Stern and L. S. Hurley. Age and sex alter the effects of zinc deficiency on food intake in rats. Poster presented at the meetings of the Federation of American Societies for Experimental Biology, St. Louis, MO. Federation Proceedings 43: 686.

10. 1984 Willer, V., T. W. Castonguay, M. F. Dallman and J. S. Stern. Flavor, forced choice, and deprivation affects corticosterone selection. Poster presented at the 14th Annual Meeting of the Society for Neuroscience, Los Angeles, CA. Abstracts: Society for Neuroscience 14th Annual Meeting 10: 1007.

11. 1984 Castonguay, T. W. and J. S. Stern. Varied levels of protein in the diet do not influence dietary selection patterns of obese Zucker rats. Poster presented at the Annual Meetings of the North American Association for the Study of Obesity, Seattle, WA.

12. 1984 Gietzen, D. W., P. M. B. Leung, T. W. Castonguay and Q. R. Rogers. Residual effects of p Chlorophenylalanine and l tryptophan on food intake of rats fed an imbalanced amino acid diet. Poster presented at the Food Intake Laboratory Satellite Symposium, "The Neural and Metabolic Bases of Feeding," Napa, CA. Appetite 6: 201 202. (1985).

13. 1984 Castonguay, T. W. and J. S. Stern. Nutritional, metabolic and hormonal influences on dietary selection. Poster presented at the Food Intake Laboratory Satellite Symposium, "The Neural and Metabolic Bases of Feeding," Napa, CA. Appetite 6: 175 176. (1985).

14. 1984 Bellinger, L. L., V. E. Mendel, L. L. Bernardis and T. W. Castonguay. Meal patterns of dorsomedial hypothalamic lesioned (DMNL) and sham operated (SCON) rats. Poster presented at the Food Intake Laboratory Satellite Symposium, "The Neural and Metabolic Bases of Feeding," Napa, CA. Appetite 6: 199 200.(1985).

15. 1985 Castonguay, T. W., L. S. Srnith and J. S. Stern. Corticosterone self administration by adrenalectomized rats. Poster presented at the meetings of the Federation of American Societies for Experimental Biology, Anaheim, CA. Federation Proceedings 44: 1559.

16. 1985 Castonguay, T. W. and J. S. Stern. Meal pattern analysis and the homeostatic model of feeding. Poster presented at the 15th Annual Meetings of the Society for Neuroscience, Dallas, TX.

17. 1985 Castonguay, T. W., W. C. Newmark, M. Lemp and J. S. Stern. Wheel running activity and the obese adrenalectomized (ADX) Zucker rat. Poster presented at the Annual Meetings of the North American Association for the Study of Obesity, Toronto, Ontario, Canada.

18. 1985 Mendel, V. E., L. L. Bellinger and T. W. Castonguay. Cholecystokinin (CCK), dorsomedial hypothalamic lesions (DMNL) and the first meal following a 24 hour fast. Poster presented at Satellite Symposium "Mechanisms of Appetite and Obesity," San Antonio, TX.

19. 1985 Castonguay, T. W. and J. S. Stern. Meal pattern analysis: Artifacts, assumptions, and their implications. Poster presented at Satellite Symposium "Mechanisms of Appetite and Obesity," San Antonio, TX.

20. 1986 Harrison, J.U., T. W. Castonguay, A. Sclafani and Q. Rogers. Carbohydrate solution intake in young male cats. Poster presented at the IXth International Conference on the Physiology of Food and Fluid Intake, Seattle, WA.

21. 1986 Castonguay, T. W., D. V. Coscina, and J. S. Stern. Meal patterns of obese and lean Zucker rats treated with EOS, a GABA T inhibitor. Poster at Annual Meeting of the Society for Neuroscience, Washington, D.C.
22. 1987 Castonguay, T. W., T. C. Giles, J. F. Harrison and Q. R. Rogers. Variations in sucrose concentration and its effect on food intake in the domestic cat. Poster presented at the 17th annual meetings of the Society for Neuroscience, New Orleans, LA.
23. 1987 Mendel, V. E. and T. W. Castonguay. Effect of purified human satietin on meal patterns of rats. Poster presented at the 17th annual meetings of the Society for Neuroscience, New Orleans, LA.
24. 1988 Oster, M., T. Castonguay, J. Stern and C. Keen. Tissue Zn and Cu concentrations of diabetic adrenalectomized rats. Poster presented at the annual meetings of the Federation of American Societies for Experimental Biology, Las Vegas, NV.
25. 1988 Dubuc, P. and T. W. Castonguay. Insulin self administration and its effects on feeding in the rat. Poster presented at the annual meetings of the Federation of American Societies for Experimental Biology, Las Vegas, NV.
26. 1988 Kalogeris, T. J., T. W. Castonguay, N. E. Rowland and J. S. Stern. Chronic alterations in serotonin metabolism differentially affect food intake and meal patterns in obese and lean Zucker rats. Poster presented at the annual meetings of the Society for Neuroscience, Toronto, Ontario, Canada.
27. 1989 Myers, F., D. Olson, T.W. Castonguay, J.S. Stern, and R. Rucker. Comparison of food choice selection patterns of Sprague Dawley and Zucker rats. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, New Orleans, L.A.
28. 1990 Bligh, M.E., M. DeStefano, S. Kramlik T. Ton, K Wilund, P. Dubuc and T.W. Castonguay. Adrenal control of fat intake subsequent to food deprivation. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Washington, D.C.
29. 1990 Castonguay, T.W. and W.J. Kuenzel. The effect of intravenous insulin on cerebrospinal fluid (CSF) biogenic amine concentrations in anesthetized rats. Poster presented at the meetings of the Society for Neuroscience, St. Louis, MO.
30. 1991 Castonguay, T.W., J. Lattman, and P.U. Dubuc. Methods of inducing hypoglycemia and their effects on food choice. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA
31. 1991 Schlabach, G.A., S.J. Bhathena, D.L. Santa Maria, P.H. Mann, and T.W. Castonguay. The effects of training and detraining on the dietary self selection patterns in the Osborne Mendel rat. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA
32. 1991 Kramlik, S.K, M. Hetherington, M. Altemus, G. Chrousos, and T.W. Castonguay. Hypercortisolism associated with increased fat intake. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA
33. 1991 Tavakoli, M. and T.W. Castonguay. The effect of insulin on circulating blood glucose as determined by on line blood glucose analysis. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA

34. 1991 Seidel, KE., T.W. Castonguay and M.L. Failla. Copper deficiency increases levels of dopamine (DA) and norepinephrine (NE) in ventromedial hypothalamus without altering feeding patterns. Poster presented at the Annual Meetings of the Federation of American Societies for Experimental Biology, Atlanta, GA
35. 1991 Castonguay, T.W., M.E. Bligh, and K Kamara. Intraventricular injections of glucocorticoids in adrenalectomized and sham operated Sprague Dawley rats: effects on dietary self selection. Poster presented at the annual meetings of the Society for Neuroscience, New Orleans, LA
36. 1991 Castonguay, T.W. and K. Kamara. A comparison of systemic and intracerebroventricular (ICV) glucocorticoid treatment of adrenalectomized (ADX) Sprague Dawley rats: Effects on food choice. Poster presented at the joint annual meetings of the North American Association for the Study of Obesity and the Society for the Study of Ingestive Behavior. Sacramento, CA. Abstract published in International Journal of Obesity 15:(Supplement 3), p 38., 1991.
37. 1992 Bernardini, J., K. Kamara and T.W. Castonguay. Macronutrient choice following food deprivation: The effect of dietary fat dilution. Poster presented at the First International Behavioral Neuroscience Conference. San Antonio, Texas.
38. 1992 Bligh, M.E., S. Bhagwat, J. Thomas and T.W. Castonguay. Cold exposure, starvation and their combined effects on circulating aldosterone and corticosterone concentrations in self selecting Sprague Dawley rats. Poster presented at the First Meeting of the Society for the Study of Ingestive Behavior, Princeton, NJ June, 1992.
39. 1992 Bhagwat, A.A., W.J. Kuenzel and T.W. Castonguay. Microdialysis of dopamine within the lobus parolfactorius of chicks following NPY and insulin administration. Poster presented at the First Meeting of the Society for the Study of Ingestive Behavior, Princeton, NJ June, 1992.
40. 1994 Hamelink, C., T. Chautard, R. Eskay and T. Castonguay. Differential effects of age on dietary fat-induced obesity and glucocorticoid receptors. Poster presented at the Second Society for the Study of Ingestive Behavior meeting, Hamilton, Ontario.
41. 1995 Edens, N.K., A. Moshirfar, G.M. Potter and T.W. Castonguay. Adrenalectomy decreases adipocyte size without altering in vitro triglyceride synthesis in Sprague-Dawley rats. Poster presented at the annual Experimental Biology meetings, Atlanta, GA.
42. 1995 G.M. Potter and T.W. Castonguay. Adrenalectomy attenuates d-amphetamine induced dopamine release in the nucleus accumbens but not the striatum. Poster presented at the annual Experimental Biology meetings, Atlanta, GA.
43. 1995 C.R. Hamelink, R.L. Eskay and T.W. Castonguay. Access to a fat supplement stimulates hypothalamic-pituitary-adrenal axis. Poster presented at the annual Experimental Biology meetings, Atlanta, GA.
44. 1995 C.R. Hamelink, R. Daoud, M. Torda, T. Castonguay and R. Eskay. Differential effects of chronic voluntary versus involuntary alcohol consumption on stress-axis events in the male rat. Poster presented at the NAASO-SSIB annual meeting, Baton Rouge, LA
45. 1996 Kamara, K.S., C. Hansen and T.W. Castonguay. Glucocorticoids and their role in hepatic gluconeogenesis in obese and lean LAN/CP rats. Poster presented at the SSIB annual meeting, Banff,

Canada.

46. 1997 Castonguay, T., S. Beaulieu, R. Eskay, N. Barden, K. Kamara, S. Khozin, L. Lustberg and L. Brown. The effects of adrenalectomy and aldosterone replacement in transgenic mice expressing antisense RNA to the glucocorticoid receptor. Poster presented at the annual Experimental Biology Meetings, New Orleans, LA

47. 1997 C.R. Hamelink, M.A. Martineau, J.A. Boger, J.G. Ondo, T. W. Castonguay and R.L. Eskay. Short-term high-level alcohol induces hippocampal and entorhinal cortex degeneration. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, LA

48. 1998 T. Habash, R.L. Eskay and T.W. Castonguay. The effect of adrenalectomy and corticosterone replacement on NPY-induced changes in serotonin metabolism. Poster presented at the annual meeting of the Society for Neuroscience, Los Angeles, CA

49. 1998 C.R. Hamelink, T.W. Castonguay and R.L. Eskay. Short-term binge alcohol consumption induces hippocampal and entorhinal cortex and impairs spatial memory. Poster presented at the annual meeting of the Society for Neuroscience, Los Angeles, CA

50. 1998 Hamelink, C. R., E. P. Carpenter-Hyland, T. W. Castonguay, R.L. Eskay: Continuously Elevated Corticosterone Levels Exacerbate Alcohol-Induced Neurodegeneration. Poster presented at the XIth International Congress on the Physiology of Food and Fluid Intake. Pecs, Hungary.

51. 1998 Hamelink, C.R., E.P. Carpenter-Hyland, T.W. Castonguay, and R.L. Eskay. Neither NMDA nor L-type calcium channel blockade prevent alcohol-induced neurodegeneration. *Alcohol Clin. Exper. Res.* 22(3): 64A.

52. 1999 Hamelink, C. E. Carpenter-Hyland, M. Nikodemova, T.W. Castonguay and R.L. Eskay. Unable to link glutamate excitotoxicity to alcohol-induced neurodegeneration. Winter Brain Conference, Aspen, CO.

53. 1999 F. Jacobs, M. Gemmill, L. Zhang, C. Cole, C. Hamelink, R. Eskay, M. Dawood, M. Tawney, M. Powell and T.W. Castonguay. The effects of adrenalectomy and aldosterone replacement on dietary obesity. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Clearwater, FL

54. 1999 S.K. Yeung and T.W. Castonguay. The effect of Neuropeptide Y on catecholamine and indolamine overflow in the hypothalamus. Poster presented at the Annual Meeting of the Society for Neuroscience. Miami, FL

55. 2000 M. Gemmill, R.L. Eskay, L. Zhang, N. Hall, L. Douglass and T.W. Castonguay. Effect of leptin on food intake and body weight in adrenalectomized rats with corticosterone replacement. Poster presented at the Annual Meeting of the Society for Neuroscience New Orleans, LA

56. 2001 L. M. Brown, C.T. Hansen and T.W. Castonguay. Genetic background influences the effect of adrenalectomy on the expression of the mc4 receptor in lean and obese agouti mice. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA

57. 2002 Lynda M. Brown, Siam O. Lieu, Sumesh Thomas, Carl T. Hansen and T.W. Castonguay. The effects of adrenalectomy and genetic background on carcass composition and melanocortin-4 receptor expression in lean and obese agouti mice. Poster presented at the 5th International Melanocortin. Sun

River, OR.

58. 2002 L. M. Brown, S. Thomas, S.O Lieu, C. T. Hansen and T.W. Castonguay. The effects of adrenalectomy and genetic background on carcass composition and neuropeptide Y5 receptor expression in lean and obese corpulent rats. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior. Santa Cruz, CA Abstract published in *Appetite* 39: 67, 2002.
59. 2002 M.B. Lubran, S. Thomas, L.M. Brown and T.W. Castonguay. The regulation of circulating corticosterone: Time course to adjust to varied placement dosages. Poster presented at the annual meeting of the Society for Neuroscience Orlando, FL
60. 2002 C.E. Cole and T.W. Castonguay. The effects of adrenalectomy and high fat diet on hippocampal mineralocorticoid receptor mRNA. Poster presented at the annual meeting of the Society for Neuroscience Orlando, FL
61. 2003 T.W. Castonguay, T. Vahl, J. Reed, R. Seeley, R. Sakai, and S.C. Woods. High fat diets promote increased hepatic 11-beta HSD-1 mRNA. Poster presented at the annual meeting of the Society for the Study of Ingestive Behavior. Groningen, Netherlands. Abstract published in *Appetite* 40: 320, 2003.
62. 2004 A. Morin, J. Moore, E. Zager, D. Clegg, L.M. Brown, T.W. Castonguay. Hepatic 11 $\beta$  Hydroxysteroid Dehydrogenase -1 mRNA in obese and lean Zucker rats. Poster presented at the annual meeting of the Society for the Study of Ingestive Behavior. Cincinnati, OH Abstract published in *Appetite* 42: 386, 2004
63. 2004 J. Moore, A. Morin, E. Zager, D. Clegg, L.M. Brown, T.W. Castonguay. Hepatic and mesenteric adipose 11 $\beta$  Hydroxysteroid Dehydrogenase -1 mRNA in obese and lean Zucker rats. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA
64. 2005 J. Moore#, E. Zager#, T.W. Castonguay\*<sup>^</sup>. 11 Beta Hydroxysteroid Dehydrogenase 1 mRNA in obese and lean Zucker rats. Poster presented at the 19th National Conference of Undergraduate Research: April 20-23, 2005. Lexington, Virginia
65. 2005 J. Moore#, E.Z. Parsons#, M. Hardy, L.M. Brown#, D. Clegg, and T.W. Castonguay\*<sup>^</sup> High fat diets and hepatic 11  $\beta$  hydroxysteroid dehydrogenase -1 in Long-Evans male rats. Poster presented at the annual meeting of the Society for the Study of Ingestive Behavior, Pittsburgh, PA
66. 2005 E.Z. Parsons#, J. Moore#, M. Muchow#, T. Porter and T.W. Castonguay\*<sup>^</sup>. Interference RNA knockdown of GH3 and GH4C1 pituitary cell 11 beta Hydroxysteroid Dehydrogenase -1. Poster presented at the annual meetings of the Society for Neuroscience, Washington, DC.
67. 2007 E. London#, A. Jackson#, A. Panzenbeck# and T.W. Castonguay\*<sup>^</sup>. RNAi knockdown of 11 $\beta$ -Hydroxysteroid Dehydrogenase-1 in GH4C1 rat pituitary cells. Poster presented at the annual Experimental Biology meeting, Washington, D.C.
68. 2007 E. London#, G. Lala#, R.Berger#, A. Panzenbeck#, A. Kohli#, M.Renner#, A.Jackson#, T. Raynor#, K. Loya# T.W. Castonguay\*<sup>^</sup>. Sucrose access and 11 $\beta$ -hydroxysteroid dehydrogenase-1 message in liver and adipose tissue in rats. Poster presented at the annual meeting of the Society for the Study of Ingestive Behavior, Steamboat Springs, CO.
69. 2008 E. London# and T.W. Castonguay\*<sup>^</sup>. Effects of 24h access to sugar solutions on 11 $\beta$ -hydroxysteroid dehydrogenase-1 and hexose-6-phosphate dehydrogenase. Poster presented at the annual

meeting of the Society for Neuroscience, Washington, DC.

70. 2008 J. Leger#, R. Sakai and T.W. Castonguay<sup>^\*</sup>. Growth and body composition of Charles River Sprague-Dawley rats. Poster presented at the annual meeting of the Society for Neuroscience. Washington, D.C.

71. 2009 B. Jiang#, E. London# and T.W. Castonguay<sup>^\*</sup>. Differential effects of glucose, sucrose and fructose on hypothalamic neuropeptide expression. Poster presented at the annual meeting of the Society for Neuroscience. Chicago, IL

72. 2009 E, London# and T.W. Castonguay<sup>^\*</sup>. High-sucrose, fructose, and glucose diets and glucocorticoid dysregulation in rats. Poster presented at the annual meetings of The Obesity Society, Washington, D.C.

73. 2011 T.W. Castonguay<sup>^\*</sup>, E. London#, J. Khural# and B. Jiang#. Sugar solutions alter liver and hypothalamic appetite regulation. Poster presented at the Experimental Biology 2011 annual meeting, Washington, D.C.

74. 2011 D. Colley#, E. London# and T. Castonguay<sup>^\*</sup>. Sugar solutions and the control of food intake. Poster presented at the 2011 Mid-Atlantic Diabetes Research Symposium, National Institutes of Health, Bethesda, MD.

75. 2011 T.W. Castonguay<sup>^\*</sup>, D. Colley#, B. Jiang# and J. Khural#. Sugar solutions and their impact on caloric regulation. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.

76. 2012 T. Castonguay<sup>^\*</sup> and D. Colley#. Fructose, high fructose corn syrup and sucrose solutions: a comparison of their effects on the hypothalamic control of food intake. Poster presented at the Experimental Biology 2012 annual meeting, San Diego, CA

77. 2013 S.M. Hudgins#, A. Smaliy, W. Zhan, J. L. Leger#, S. Gebauer, D. Baer and T.W. Castonguay<sup>^\*</sup>. High fructose corn syrup-sweetened cola and the hypothalamus: a dose-response fMRI study. Poster presented at the Experimental Biology 2013 annual meeting. Boston, MA.

78. 2013 D. L. Colley# and T. W. Castonguay<sup>^\*</sup>. Selection of reference gene for qPCR analysis of hypothalamic appetite regulation. Poster presented at the Experimental Biology 2013 annual meeting. Boston, MA.

79. 2013 E. S. Campbell# and T. W. Castonguay<sup>^\*</sup>. Fructose intake and circulating triglycerides: an examination of the roles of APOC 3 and FOXO1. Poster presented at the Experimental Biology 2013 annual meeting. Boston, MA.

80. 2013 A.E. Schlappal#, E.S. Campbell#, S.M. Hudgins# and T.W. Castonguay<sup>^\*</sup>. Fructose and the rat's sweet tooth. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

81. 2013 S.M. Hudgins#, A. Smaliy, W. Zhan, J. Leger#, S. Gebauer, D. Baer, A.E. Schlappal#, and T.W. Castonguay<sup>^\*</sup>. Cola suppresses the hypothalamic BOLD response: a dose-response fMRI study. Poster presented at the annual meeting of the Society of Neuroscience, San Diego, CA

82. 2014 S.M. Hudgins#, W. Zhan, J.L. Leger#, S. Gebauer, D. Bear, T.W. Castonguay<sup>^\*</sup>. Hypothalamic activity suppressed by Coca-Cola as measured by functional magnetic resonance imaging: a dose-



response study. Poster presented at the 2014 Mid-Atlantic Diabetes Research Symposium, National Institutes of Health, Bethesda, MD.

83. 2014 E. Campbell# and T.W. Castonguay^\*. Fructose intake and circulating triglycerides: An examination of the roles of Apoc 3 and Foxo1. Poster presented at the 2014 Mid-Atlantic Diabetes Research Symposium, National Institutes of Health, Bethesda, MD.

84. 2014 A.E. Schlappal#, C. Zhao# and T.W. Castonguay^\*. Sugar decreases 11 beta-hydroxysteroid dehydrogenase mRNA within 24h. Poster to be presented at the annual meeting of the Society for Neuroscience, Washington, DC.

85. 2014 C. Zhao,# A. Schlappal# and T.W. Castonguay^\*. Sugar and the regulation of hypothalamic anorectic peptides. Poster presented at the annual meeting of the Society for Neuroscience, Washington, DC.

#### II.E.6. Refereed Panels

#### II.E.7. Non-Refereed Presentations

1. 1982 Castonguay, T. W. Dietary self-selection and the Zucker rat: further considerations. Chemical Senses and Ingestion Society, Baltimore, MD.
2. 1983 Castonguay, T. W. Exercise and dietary component selection. Paper presented at the annual meeting of the Chemical Senses & Ingestion Society. Philadelphia, PA.
3. 1986 Castonguay, T. W., M. Lemp, and J. S. Stern. Conditioned taste aversion learning in adrenalectomized rats. Paper presented at the annual meeting of the Chemical Senses and Ingestion Society, New York, NY.
4. 1986 Castonguay, T. W. and A. Sclafani. Consumption of carbohydrate solutions in domestic cats. Paper presented at the annual meeting of the Chemical Senses and Ingestion Society, New York, NY.
5. 1987 Castonguay, T. W. Insulin, corticosterone and their interaction: effects on body weight and food intake. Paper presented at the annual meeting of the Society for the Study of Ingestive Behavior, Washington, D.C.
6. 1989 Castonguay, T.W. Effects of corticosterone supplementation on body weight and food intake. Paper presented at the Annual Meetings of the Society for the Study of Ingestive Behavior. Boston, MA.
7. 1990 Bligh, M.E. and T.W. Castonguay. Adrenal control of fat intake subsequent to food deprivation. Society for the Study of Ingestive Behavior Philadelphia, PA
8. 1990 Kramlik, S. and T.W. Castonguay. Fat preference in Cushing's patients. Society for the Study of Ingestive Behavior Philadelphia, PA
9. 1990 DeStefano, M. and T.W. Castonguay. Effect of chronic insulin ad~ministration on

food intake and body weight. Society for the Study of Ingestive Behavior  
Philadelphia, PA

10. 1991 Castonguay, T.W. Insulin and on-line blood glucose analysis. Paper presented at the Annual Meeting of the Society for the Study of Ingestive Behavior. New York, NY
11. 1993 Hamelink, C. and T.W. Castonguay. ACTH and its effects on body weight. Paper presented at the annual Society for the Study of Ingestive Behavior meeting, Alexandria, VA
12. 1993 Trocki, O. and T.W. Castonguay. Corticosterone rhythmicity is not affected by dietary obesity. Paper presented at the annual Society for the Study of Ingestive Behavior meeting, Alexandria, VA
13. 1996 Castonguay, T.W. Corticosterone and insulin release in the LAN/CP rat. Paper presented at the annual Society for the Study of Ingestive Behavior meeting, Philadelphia, PA
14. 1999 Castonguay, T.W. Insulin stimulates dopamine release from the nucleus accumbens Poster presented at the 1<sup>st</sup> annual Neural and Cognitive Sciences Research Festival (NACFEST) University of Maryland College Park.
15. 1999 Habash, T., R.L. Eskay, and T.W. Castonguay The effect of adrenalectomy and corticosterone replacement on NPY induced changes in serotonin metabolism. Paper presented at the 1<sup>st</sup> annual Neural and Cognitive Sciences Research Festival (NACFEST) University of Maryland College Park.
16. 2000 Yeung, S.K. and T.W. Castonguay The effect of Neuropeptide Y on hypothalamic serotonin overflow Poster presented at the 2<sup>nd</sup> annual Neural and Cognitive Sciences Research Festival (NACFEST) University of Maryland
17. 2004 Moore, J., A. Morin, E. Zager and T.W. Castonguay. Hepatic 11 $\beta$  HSD-1 mRNA in obese and lean Zucker rats. Poster presented at the annual Undergraduate Research Day, University of Maryland.
18. 2005 Moore#, J., E. Parsons# and T.W. Castonguay<sup>^\*</sup>. 11 $\beta$  hydroxysteroid dehydrogenase-1 mRNA in obese and lean Zucker rats. Poster presented at the Undergraduate Student Research Days. Annapolis, MD
19. 2007 T. Raynor#, E.London#, G. Lala#, R Berger#, A. Kohli#, M. Renner#, A. Jackson# and T.W. Castonguay<sup>^\*</sup>. Ad libitum access to sugar solutions in diabetic and control rats. Poster presented at the annual Bioscience Day conference, University of Maryland, College Park.

20. 2007 E.London#, G. Lala#, R Berger#, A. Panzenbeck#, A. Kohli#, M. Renner#, A. Jackson# T. Raynor#, K. Loya# and T.W.Castonguay<sup>^\*</sup>. Sucrose access and 11 $\beta$  hydroxysteroid dehydrogenase-1 message in liver and adipose tissue in rats. Poster presented at the annual Bioscience Day conference, University of Maryland, College Park.
21. 2011 D.Colley# and T.W.Castonguay<sup>^\*</sup>. Sugar solutions and their impact on caloric regulation. Poster presented at the annual Bioscience Day conference, University of Maryland, College Park
22. 2012 T.W. Castonguay. The Stern approach to the study of the controls of food intake: An update. Paper presented at the first annual Judith S. Stern Symposium on Obesity and Nutrition. University of California Davis, Davis, CA
23. 2013 E. Campbell#, A. Schlappal#. S. Hudgins# and T.W. Castonguay<sup>^\*</sup>. Fructose and the rat's sweet tooth. Poster presented at the annual NACSfest Poster session. University of Maryland, College Park.
24. 2013 A. Jacobson#, P. DeShong and T.W. Castonguay<sup>^\*</sup>. The effect of different sugars on hepatic fatty acid deposition in rats. Poster presented at the Howard Hughes Medical Institute's annual Fellow's poster session. University of Maryland, College Park.

II.E.8. Non-Refereed Abstracts

II.E.9. Non-Refereed Posters

II.E.10. Non-Refereed Panels

II.E.11. Symposia

II.E.12. Workshops

II.E.13. Colloquia

II.E.14. Historical Conferences, Workshops, Talks (10+ years ago)

II.E.15. Other

Invited Commentary

1985 Castonguay, T. W. Studies of food choice: the nutritional challenge. Behavioral and Brain Sciences Target article: Choice, optimal foraging and the delay reduction hypothesis. by E. Fantino and N. Abarca 8: 334-335.

II.F. Professional Publications

II.F.1. Reports and Non-Refereed Monographs

II.F.2. Pre-Print/Working Paper (Not Work in Progress)

II.F.3. Legal Briefs

II.F.4. Policy Briefs

II.F.5. Other

## II.G. Book Reviews, Notes, and Other Contributions

### II.G. 1. Book Reviews

- 1986 Castonguay, T. W. Book Review. Eating Disorders: the facts by S. Abraham and D. Llewellyn-Jones. *Journal of Nutrition Education* 18: 88.
- 1987 Castonguay, T. W. Book Review. Hunger (Problems in the Behavioral Sciences) by J. LeMagnen. *Journal of Nutrition* 117: 996-997.
- 1988 Castonguay, T. W. Book Review. Diet and Behavior: A Multidisciplinary Evaluation G.H. Anderson (Ed.). *Journal of Nutrition Education* 20: 35.
- 1988 Castonguay, T. W. Book Review. Nutrition and the Brain, Vol. 7.: Food constituents affecting normal and abnormal behaviors J. Wurtman and R. Wurtman (Eds.). *Journal of Nutrition* 118: 1165.

### II.G. 2. Essays

### II.G. 3. Notes

### II.G. 4. Manuals

### II.G. 5. Other

## II.H. Completed Creative Works

### II.H.1. Digital Media (e.g., CDs, DVDs)

### II.H.2. Datasets

### II.H.3. Constructed Projects

### II.H.4. Demonstrations

### II.H.5. Inventions

### II.H.6. Original Plans and Designs

### II.H.7. Photography

### II.H.8. Software and Applications

### II.H.9. Websites

### II.H.10. Exhibitions and Installations

### II.H.11. Curatorial Practice

### II.H.12. Performance or Interpretation – Performing Arts

### II.H.13. Direction - Performing Arts

### II.H.14. Production - Performing Arts

### II.H.15. Costume, Stage, Multimedia, and Theatrical Design

### II.H.16. Artistic and Graphic Design

### II.H.17. Dramaturgy

### II.H.18. Artwork

### II.H.19. Choreography

### II.H.20. Playwriting, Screenwriting, and Musical Composition

### II.H.21. Works of Creative Writing

### II.H.22. Performance or Interpretation - Film, Video, and Multimedia

### II.H.23. Direction - Film, Video, and Multimedia

### II.H.24. Production - Film, Video, and Multimedia

### II.H.25. Citations and Reviews

### II.H.26. Historical Completed Creative Works (10+ years ago)

### II.H.27. Other



## II.I Significant Works in Public Media

*Specify the following – Title, Publication/Media Name, Contributors, Types (Print, online, broadcast, video, documentary)*

II.I.1. Explanatory, Investigative, or Long-Form Journalism

II.I.2. Other Significant Journalism

II.I.3. Commentary/Analysis

II.I.4. Interactive Online Database

II.I.5. Other

## II.J. Sponsored Research

*List source, title, amount awarded, time period and role (i.e. principal investigator or co-investigator) in reverse chronological order or its inverse. If there are co-investigators, please list these.*

II.J.1. Grants

2013-2015 Nutrition research to reduce the risk of disease. USDA, ARS, Beltsville Human Nutrition Research Center Cooperative Agreement #58-1235-3-002; \$110,000 Role: Principal Investigator.

2011-2016 Nutrition research to reduce risk of disease. USDA, ARS, Beltsville Human Nutrition Research Center Cooperative Agreement #58-1235-1-196; \$265,000 Role: Principal Investigator.

2012 Supplement to Nutrition research to reduce risk of disease. USDA, ARS, Beltsville Human Nutrition Research Center Cooperative Agreement #58-1235-1-196; \$263,685/yr. Role: Principal Investigator.

2012-2017 Nutrition research of naturally occurring food components to reduce risk of cancer. USDA, ARS, Human Nutrition Research Center Cooperative Agreement #58-1235-2-112; \$546,989 Role: Principal Investigator.

2013-2018 Dietary interventions to reduce risk of chronic disease USDA, ARS, Human Nutrition Research Center Cooperative Agreement #58-1235-3-117; \$420,000 Role: Principal Investigator.

2013–2018 Nutrition research of naturally occurring food components to reduce risk of cancer. USDA, ARS, Beltsville Human Nutrition Research Center Cooperative Agreement # 58-1235-3-188; \$178,500 Role: Principal Investigator.

2011-2012 Fructose consumption and its effects on the brain's appetite-regulating mechanisms. Division of Research DRIF Support Program \$50,000 / year. Role: Principal Investigator  
No cost extension 2013.

2011-2012 Fructose consumption and its effects on the brain's appetite-regulating mechanisms. Division of Research DRIF Support Program \$50,000 / year. Role: Principal Investigator  
No cost extension 2013.

2011-2012 NACS MNC Seed Grant for MRI Studies Fructose consumption and its effects on the brain's appetite-regulating mechanisms. Total request: \$12,000. Role: Principal Investigator

2011-2012 Sugars and hypothalamic appetite regulation. Maryland Agricultural Experiment Station Competitive Grants Program \$30,000 / 1 year. Role: Principal Investigator.

2012 Research and Scholarship Award. The Graduate School- Univ of Maryland. \$9,000/yr. Role: Principal Investigator.

2006-2007 11 beta Hydroxysteroid Dehydrogenase RNAi tissue specific delivery Maryland Agricultural Experiment Station Competitive Grants Program \$20,000/one year Role: Principal Investigator

2006 -2007 Sugar induced obesity and Whey Low. Maryland Industrial Partnership Program \$97,778/one year Role: Principal Investigator

2005-2006 RNAi knockdown of 11 beta hydroxysteroid dehydrogenase-1 in pituitary cells. Maryland Agricultural Experiment Station Competitive Grants Program \$20,000/one year Role: Principal Investigator.

2005 RNAi based knockdown of 11 beta hydroxysteroid dehydrogenase-1 in pituitary cells. General Research Board, University of Maryland Amount \$3,489 Role Principal Investigator.

2000-2004 Graduate Block Grant University of Maryland Graduate School. Amount \$13,000/year. Role: Co-PI with P. Moser-Veillon

2002-2003 Adrenal Steroids and Obesity Center for Neuroscience University of Maryland Amount \$6,000 Role PI

2001-2002 The effects of glucocorticoids on lipoprotein lipase mRNA in the hippocampus of the rat. Center for Neuroscience University of Maryland pilot project Amount \$6,000 Role Co-PI with Tom Porter.

2000-2001 Chronic and acute divergence from euglycemia and its effects on brain catecholamine and indolamine metabolism. HATCH project \$4,100 Role: Principal Investigator.

1998-2000 Adrenal hormones and their effects on the neural and metabolic controls of body weight and carcass composition. Maryland Agricultural Experiment Station Competitive Grants Program. Amount 1998-1999 \$11,000, 1999-2000 \$25,000. Role: Principal Investigator

1996-1999 Chronic and acute divergence from euglycemia and its effects on brain catecholamine and indolamine metabolism. HATCH project \$5,000/year Role: Principal Investigator

1998- 1999 Hypothalamic Catecholamine Release in Response to Neuropeptide Y. Center for Comparative Neuroscience Colleges of Life Science and Behavioral and Social Sciences University of Maryland Amount: 1998-1999 \$5,000. Role: Principal Investigator

1997 Glucocorticoid control of leptin in obesity. Summer Research Award - General Research Board, University of Maryland. \$8,200 Role: Principal Investigator

1995-1997 Adrenal modulation of the mechanisms controlling food intake. Maryland Agricultural Experiment Station Competitive Grants Program Amount: \$36,000/yr Role: Principal Investigator.

1994-1995 Adrenal control of triglyceride synthesis and lipolysis. Maryland Agricultural Experiment Station Competitive Grants Program Amount:\$22,000 Role: Principal Investigator.

1991-1994 Adrenal-pancreas interactions: Intake and weight control. NIH Amount \$198,015 Role: Principal Investigator. No cost extension granted 1994-1995.

1993-1994 Glucocorticoid modulation of energy metabolism and the control of food intake. Maryland Agricultural Experiment Station Competitive Grants Program. Amount \$22,000 . Role: Principal Investigator.

1987-1993 Some physiological controls of food choice. Whitehall Foundation, Inc. Amount \$150,816 Role: Principal Investigator

1991-1993 Neuroendocrine Controls of Food Choice. Maryland Agricultural Experiment Station. Amount \$52,000 Role: Principal Investigator.

1991-1992 Insulin and dopamine: A comparative study of the regulation of food intake. Maryland Agricultural Experiment Station. Amount \$26,500 Role: Co-PI with W. Kuenzel.

1991-1992 Brain corticosterone and fat intake. College of Human Ecology Amount \$2,500 Role: Principal Investigator.

1990-1991 Neuroendocrine Controls of Food Choice. Maryland Agricultural Experiment Station. Amount \$26,000 Role: Principal Investigator.

1986-1988 Self-administration of insulin in the streptozotocin-diabetic rat. American Diabetes Association, Southern California Chapter. Amount \$24,074 Role: Co-PI with P. Dubuc, Sansum Research Foundation, Santa Barbara, CA.

1988-1989 Start-up funds University of Maryland Amount \$25,000

1987-1988 Feeding and activity pattern analyzer. NIH Shared Instrumentation grant #1 S10 RR03390-01 Amount: \$227,445 Status Role: Project Director and Co-PI with Q.R. Rogers of the Veterinary School of Medicine, University of California - Davis.

1986-1987 Carbohydrate intake in domestic cats. Companion Animal Laboratory grant, UC Davis School of Veterinary Medicine. Amount \$6,000 Role: Co-PI with Q.R. Rogers, School of Veterinary Medicine.



1986-1987 Insulin self-administration in the streptozotocin rat. Pilot study grant, Clinical Nutrition Research Unit. Amount \$7,000 Role: Principal Investigator.

1986-1990 Control of food intake: Focus on nutrition and behavior. National Institutes of Health Public Health Service Training grant #T32DK07355. Amount: \$824,683 Role: Co-Investigator  
1984-1988 Physical activity, pancreatic function and obesity. National Institutes of Health Grant #DK18899 Amount \$341,259 Role: Co-Investigator.

1982-1984 The effects of anorectic agents on the meal patterns and selection patterns of lean and obese Zucker rats (Parts 1 and 2). Hoffmann-LaRoche Inc. Amount: \$10,000 Role: Co PI with J.S. Stern, Nutrition Department, University of California - Davis.

#### II.J.2. Contracts

2001 National Cancer Institute – National Institutes of Health Leptin Radioimmunoassay contract \$1,500

#### II.J.3. Other

#### II.K. Fellowships, Gifts and Other Funded Research

##### II.K.1. Fellowships

##### II.K.2. Gifts

2008-2009 Unrestricted gift in support of research from Vivalac, Ind., Ashton, MD \$7,000

##### II.K.3. Other

#### II.L. Submissions and Works in Progress

*List press, journal, or granting agency.*

##### II.L.1. Current Grant Applications

##### II.L.2. Manuscripts in Preparation

##### II.L.3. Manuscripts under Review (*indicate status: submitted or revising to resubmit*)

##### II.L.4. Working Papers in Preparation

##### II.L.5. Designs in Preparation

##### II.L.6. Other

#### II.M. Centers for Research, Scholarship, and Creative Activities

*Specify Name of the Center, Description of Center, Collaborators, Start and End Dates.*

##### II.M.1. Centers Established

##### II.M.2. Centers Directed

##### II.M.3. Symposia Organized (*through center*)

##### II.M.4. Other

#### II.N. Patents

##### II.N.1. Device

##### II.N.2. Other

II.O. Other Research/Scholarship/Creative Activities

**III. Teaching, Mentoring and Advising.**

III.A. Courses Taught

*Include courses taught in the last five years. Indicate approximate enrollments and any unusual formats.*

2010-

| <b>Semester</b> | <b>Course #</b> | <b>Credit Hrs</b> | <b>No. Students</b> |
|-----------------|-----------------|-------------------|---------------------|
| Spring          | NFSC 450        | 3                 | 22                  |
|                 | NFSC 898        | 1                 | 1                   |

2011-

|        |              |   |      |                 |
|--------|--------------|---|------|-----------------|
| Spring | NFSC100      | 3 | ~450 | 33% Team Taught |
| Spring | NFSC 450     | 3 | 22   |                 |
| Spring | NFSC 498A    | 1 | 1    |                 |
| Spring | NFSC 678A    | 1 | 2    |                 |
| Spring | NFSC 898     | 1 | 1    |                 |
| Fall   | NFSC 100     | 3 | ~450 | 33% Team Taught |
| Fall   | NFSC 100(FC) | 3 | 36   | 33% Team taught |
| Fall   | NFSC 799     | 1 | 1    |                 |
| Fall   | NFSC 898     | 1 | 1    |                 |

2012

|             |               |   |      |                 |
|-------------|---------------|---|------|-----------------|
| Spring 2012 | NFSC100       | 3 | ~450 | 20% Team taught |
| Spring 2012 | NFSC 450      | 3 | 29   |                 |
| Spring 2012 | NFSC 498A     | 1 | 1    |                 |
| Spring 2012 | NFSC 678A     | 1 | 2    |                 |
| Spring 2012 | NFSC 898      | 1 | 1    |                 |
| Fall 2012   | NFSC 100 (FC) | 3 | 36   | 33% Team taught |
| Fall 2012   | NFSC100       | 3 | ~450 | 20% Team taught |
| Fall 2012   | NFSC 630      | 3 | 10   |                 |
| Fall 2012   | NFSC 799      | 1 | 3    |                 |
| Fall 2012   | NFSC 898      | 1 | 1    |                 |

2013

|             |               |   |      |                 |
|-------------|---------------|---|------|-----------------|
| Spring 2013 | NFSC100       | 3 | ~450 |                 |
| Spring 2013 | NFSC 450      | 3 | 34   |                 |
| Spring 2013 | NFSC 498A     | 1 | 1    |                 |
| Spring 2013 | NFSC 799      | 1 | 1    |                 |
| Spring 2013 | NFSC 899      | 6 | 1    |                 |
| Fall 2013   | NFSC 100 (FC) | 3 | 42   | 33% Team taught |
| Fall 2013   | NFSC100       | 3 | ~450 | 20% Team taught |
| Fall 2013   | NFSC 605      | 3 | 5    |                 |
| Fall 2013   | NFSC 799      | 1 | 2    |                 |
| Fall 2013   | NFSC 898      | 1 | 1    |                 |
| Fall 2013   | NFSC 899      | 6 | 1    |                 |
| Fall 2013   | GEMS296       | 1 | 10   |                 |

2014

|             |         |   |      |  |
|-------------|---------|---|------|--|
| Spring 2014 | NFSC100 | 3 | ~400 |  |
|-------------|---------|---|------|--|

|             |               |   |      |                 |
|-------------|---------------|---|------|-----------------|
| Spring 2014 | NFSC 450      | 3 | 34   |                 |
| Spring 2014 | NFSC 498A     | 1 | 1    |                 |
| Spring 2014 | NFSC 799      | 1 | 1    |                 |
| Spring 2014 | NFSC 899      | 6 | 1    |                 |
| Spring 2014 | GEMS 297      | 1 | 10   |                 |
| Fall 2014   | NFSC 100 (FC) | 3 | 42   | 33% Team taught |
| Fall 2014   | NFSC100       | 3 | ~400 | 20% Team taught |
| Fall 2014   | NFSC 630      | 3 | 5    |                 |
| Fall 2014   | NFSC 898      | 1 | 1    |                 |
| Fall 2014   | NFSC 899      | 6 | 2    |                 |
| Fall 2014   | GEMS396       | 1 | 10   |                 |

### III.B. Teaching Innovations

- III.B.1. Major Programs Established
- III.B.2. Education Abroad Established
- III.B.3. Software, Applications, Online Education, etc.
- III.B.4. Instructional Workshops and Seminars Established
- III.B.5. Course or Curriculum Development
- III.B.6. Historical Innovations (10+ years ago)
- III.B.7. Other

### III.C. Advising: Research or Clinical

*This refers to students whose projects the faculty has supervised as adviser, committee chair, or committee member (indicate role). The name of student, academic year(s) involved, and the name of institution if other than UMD should be indicated, as well as placement of the student(s), if the project is completed. List completed work first.*

#### III.C.1. Undergraduate

The following undergraduates have worked in my laboratory for at least one semester.

|                             |                            |
|-----------------------------|----------------------------|
| Joseph Valeri 1988-89       | Ming Nang 1996             |
| Susan Kramlik 1988-89       | Julie Chan 1996            |
| Maurice Shoals 1989         | Gregory Charney 1996       |
| Jill Latteman 1989-90       | Felix Wang 1996            |
| Tung Ton 1988-90            | Matthew Lee 1996           |
| Jessica Nyugen 1989-91      | Brian Blount 1995-1996     |
| Kien Tran 1989-90           | Janet Lee 1996-1997        |
| Jeannine Bernardini 1991-92 | Robin Wallace 1996         |
| James Walker 1992-93        | Lisa Wu 1996-1997          |
| James Wang 1992-93          | Sharam Khozin 1996-1997    |
| Kathleen St. John 1993-94   | Monica Powell 1998-1999    |
| *Ali Moshirfar 1993-94      | *Sin Kei Yeung 1998-2000   |
| Houman Bozorgzadeh 1994-95  | Mustansir Yousuf 1998-1999 |
| *Kimberly DeOre 1994-95     | Mahesh Tawney 1998-1999    |
| Jeanine Williams 1994       | Francine Jacobs 1998-1999  |
| Mi Cho 1994                 | Michelle Nguyen 1999-2000  |

|                     |            |                                   |              |
|---------------------|------------|-----------------------------------|--------------|
| Jennifer Craten     | 1998-2000  | *Jasjeet Khural                   | 2008-2011    |
| Mary Oluwatimilehin | 2000-2001  | Armineh Ghazarian                 | 2009-2010    |
| Michael Vallederes  | 2000-2001  | Eric Campbell                     | 2011         |
| Meryl Lubran        | 2001-2002  | Joshua Atere                      | 2011-2012    |
| Aimee Morin         | 2003-2004  | *Alicia Jacobson                  | 2011 to 2014 |
| *Jaime Moore        | 2004-2005  | Daniel Yi                         | 2012         |
| Dawit Mengesha      | 2004- 2006 | Pil Choi                          | 2012         |
| Alyma Kamara        | 2005-2006  | Timothy Joseph                    | 2012 – 2013  |
| Andrea Jackson      | 2005-2006  | Eliana Geller                     | 2013         |
| Alison Hoffman      | 2006       | Ruchama Barkai                    | 2013         |
| Erin Braunscheidel  | 2006       | Kristen Yang                      | 2014         |
| Tyana Raynor        | 2006–2007  | Andrew Waldburger                 | 2014         |
| Katherine Loya      | 2006-2007  | Yian Guo                          | 2014 -2015   |
| Reisel Berger       | 2006-2007  |                                   |              |
| Amy Panzenbeck      | 2006       | * Howard Hughes Medical Institute |              |
| *Michael Renner     | 2006-2008  | Undergraduate Research Fellow     |              |
| *Anita Kohli        | 2006-2008  |                                   |              |
| Nicole DePue        | 2007-2008  |                                   |              |
| Andrew Scholl       | 2007-2009  |                                   |              |
| *Biang Jiang        | 2008-2011  |                                   |              |

### III.C.2. Master's Students that I have served as Thesis director

Victoria Willer 1982-84 M.S. Thesis: Flavor, forced choice and deprivation affect corticosterone selection by the adrenalectomized rat - Degree awarded Spring, 1984 U.C. Davis.

Tracy N. Sklar 1985-87 M.S. Thesis: The effect of adrenalectomy in rats offered a thirty-two percent sucrose solution. Degree awarded Spring, 1987 U.C. Davis.

Lori Ann Roth 1985-87 M.S. Thesis: Effects of adrenalectomy on activity, appetite, and weight gain in the male Zucker rat. Degree awarded Spring, 1987 U.C. Davis.

David Olson 1986-88 M.S. Thesis: Effect of acute adrenocorticotrophic hormone ACTH administration on food intake of adrenalectomized and intact obese Zucker rats. Degree awarded Spring, 1989 U.C. Davis

Noreen Gallo 1986-88 M.S. Thesis: The metabolic effects of intestinal bypass in rats. Degree awarded Spring, 1989 U.C. Davis.

Marie DeStefano 1988-1991 M.S. Thesis: Effect of chronic inulin administration on food intake and body weight in rats. Degree awarded Spring, 1991 UMCP

Susan Kramlik 1989-1992 M.S. Thesis: The effects of the acute administration of RU 486 on dietary fat preference in fasted lean and obese men Degree awarded Spring, 1992 UMCP

Lisa Terranella 1994 M.S. Thesis: Corticosterone and its role in the control of gluconeogenesis in starved and fed rats. 1994 UMCP

Graeme Potter 1994 M.S. Thesis: Glucoregulation and dopamine release. 1994 UMCP

Heather Furner 1996 M.S. Thesis: Corticosterone and Low and High saccharine preferring rats. 1996 Occidental College

Tina Habash 1999 M.S. Thesis: Some interactions of glucocorticoids, NPY and hypothalamic serotonin. 1999 UMCP

Hongjie Bai 2000 M.S. Thesis: Effects of adrenalectomy and hormone replacement on B6C3F1 mice fed a high fat diet 2000 UMCP

Gemmill, Mary E. 2001 M.S. Thesis: Effect of leptin on food intake and body weight in adrenalectomized rats with corticosterone replacement 2001 UMCP

Cole, Cynthia E. 2003 M.S. Thesis: The effects of high fat diet and adrenalectomy on Type 1 glucocorticoid receptors in the brain. 2003 UMCP

Parsons, Erica Z. 2006 M.S. Thesis topic:  $11\beta$  Hydroxysteroid Dehydrogenase Type 1 in obese and lean Zucker rats. 2006 UMCP

Colley, Danielle 2013 M.S. Thesis Effects of sugar solutions on hypothalamic appetite regulation 2013 UMCP

Campbell, Eric 2014 M.S. Thesis: The effects of sugars on the fructose metabolic pathway 2014 UMCP.

Hudgins, Samantha 2014 M.S. Thesis: A dose-response fMRI study of high fructose corn syrup-sweetened cola and the hypothalamus 2014 UMCP.

### III.C.3. Doctoral Students that I have served as dissertation director

Mary Ellen Bligh 1989-1992 Ph.D. Dissertation: The effects of chronic cold stress on adrenal hormones and macronutrient choice. Degree awarded Fall, 1992 UMCP

Orrawin Trocki 1991-1993 Ph.D. Dissertation: Glucocorticoid modulation of dietary obesity. Degree awarded Fall, 1993 UMCP

Carol Hamelink 1992-1999 Ph.D. Dissertation: Stress, alcohol, and the glucocorticoid receptor. Degree awarded Spring, 1999 UMCP

Lynda M. Brown 1995 – 2003 Ph.D. Dissertation: The effects of genetic background and adrenalectomy on the obese phenotype and hypothalamic neuropeptide expression in corpulent (cp) rats and agouti (Avy) mice. 2003 UMCP

Edra London 2006 – 2009 Ph.D. Dissertation:  $11\beta$  Hydroxysteroid Dehydrogenase Type 1 in obesity. 2009 UMCP

Geeta Lala 2007 to 2009. Doctoral student. Graduate Program in Nutrition

Jayme Leger 2007 to present. Ph.D. Dissertation topic: Room calorimetry as a method of measuring metabolic flexibility. Doctoral student. Graduate Program in Nutrition

Changhui Zhao 2013 to 2015. Ph.D. Dissertation: The effects of sugar intake on energy intake. 2015 UMCP

Patrick Solverson 2014 to present. Doctoral student. Graduate Program in Nutrition.

Samantha Hudgins 2014 to present. Doctoral student Graduate Program in Nutrition

Haiwen Li 2014 to present. Ph.D. Dissertation topic: Effects of grape pomace on metabolic syndrome: Diabetes and Obesity. Doctoral student Graduate Program in Nutrition

Dissertation Committee member:

Ann Beth Jenkins 1992 Ph.D. Dissertation topic: Image analysis in woven fabric manufacture. Department of Textiles and Consumer Economics.

Youngjoo Na 1994 Ph.D. Dissertation topic: Effects of web density and fiber orientation on pore characteristics of aramid and simulated nonwoven fabrics Department of Textiles and Consumer Economics.

Zhiqiang Fan 1994 Ph.D. Dissertation topic: Site-directed mutagenesis of the human insulin receptor. Department of Nutrition and Food Science.

Courtney DeVries 1994 Ph.D. Dissertation topic: Adrenal steroids and their effect on prairie vole monogamy. Department of Zoology.

Erin E. Connor 1997- 2000 Ph.D. Dissertation topic: Use of physiological indicators in evaluating genetic merit of beef bulls. Department of Animal and Avian Sciences

Ratna Mukherjea 1997-2001 Ph.D. Dissertation topic: The effect of pregnancy and lactation on circulating leptin. Department of Nutrition and Food Science

Gregory F. Martel 1996-1998 Ph.D. Dissertation topic: The effects of high volume, heavy resistance unilateral strength training on fiber characteristics in younger and older men and women. Department of Kinesiology.

Patricia Gordon 1999-2001 Ph.D. Dissertation topic: Alpha Tumor necrosis factor and strength training in elderly men and women. Department of Kinesiology

Beilei Ge 2000-2002 Ph.D. Dissertation topic: Characterization and antimicrobial

resistance of *Campylobacter* isolated from retail meats. Department of Nutrition and Food Science.

Xiaoqin Fu 2000-2003 Ph.D. Dissertation topic: The effects of steroid hormones on prolactin expression in rat pituitary cell lines and chicken embryonic pituitary cells. Department of Animal and Avian Sciences.

Nancy Hall 2000-2003 Ph.D. Dissertation topic: Randomization and Sir Ronald Fisher. Graduate Program in History and Philosophy of Science

Sultan Jenkins 2000-2006 Ph.D. Dissertation topic: Factors affecting growth and adiposity in chickens. Department of Animal and Avian Sciences

Rachel Quinn 2003 – 2007 PhD Dissertation topic: Starvation and refeeding in horses. Department of Animal and Avian Sciences

Mardi Byerly 2003- 2007 Ph.D. Dissertation topic: Factors affecting growth and adiposity in chickens. Graduate Program in Neuroscience and Cognitive Science.

Juen Guo 2001-2004 Ph.D. Dissertation topic: Nutritional factors affecting body composition in cattle. Department of Animal and Avian Sciences

Ashley Peterson 2002- 2006 Ph.D. Dissertation topic: Nitrogen balance in cattle Department of Animal and Avian Sciences

Michael Muchow 2004 -2006 Ph.D Dissertation topic: Factors affecting growth and adiposity in chickens. Graduate Program in Molecular and Cell Biology

Sheng Chen 2002-2004 Ph.D. Dissertation topic: Characterization and molecular mechanisms of antimicrobial resistance in foodborne pathogens. Graduate Program in Food Science.

Josef Brandauer 2003-2004 Ph.D. Dissertation topic: Effect of endurance exercise training on postprandial plasma adiponectin levels. Graduate Program in Kinesiology.

Sarah Ivan 2005-2007 Ph.D. Dissertation topic: Nitrogen balance in dairy cows Department of Animal and Avian Sciences.

Yifan Zhang 2004-2005 PhD Dissertation topic: Antimicrobial resistance of *Listeria monocytogenes* and *Enterococcus faecium* from food and animal sources. Graduate Program in Food Science.

Youngjoo Kwon 2003-2005 PhD Dissertation topic: Effect of aging on colonic chemoprevention by dietary curcumin Graduate Program in Food Science

Shane Ardo 2005 Master thesis. Characterization of olive oils commercially available in

the United States. Graduate Program in Nutrition.

Marla Luther 2007- 2008 PhD Dissertation topic: Promoting the production and consumption of wheat-based functional foods rich in antioxidants. 2008 UMCP

Tina Ellis 2005-2007 PhD Dissertation topic: Exercise training and blood lipids. Graduate Program in Kinesiology

Nishanth E. Sunny 2006 -2007 Ph.D. Dissertation topic: Intermediary metabolism in chickens. Graduate Program in Animal and Avian Sciences.

Patricia Carrera 2006 - 2008 Ph.D. Dissertation topic: Obesity in Hispanic women. Graduate Program in Nutrition.

Shashidara Rudrappa 2007 PhD Dissertation topic: Nutritional immunology in the developing chick. Graduate program in Animal and Avian Sciences.

Sarah Camhi. 2006 to 2008 Ph.D. Dissertation title: The independent and combined effects of low fat diet and exercise on a C-reactive protein and metabolic syndrome: Findings from a randomized controlled trial. Graduate Program in Kinesiology.

Kristina Heuck 2006 to 2010 Ph.D. Dissertation topic: Glucocorticoids in the developing chick. Graduate program in Animal and Avian Sciences.

Laura E Ellestad 2005 to 2010 Ph.D. Dissertation topic: Gene expression profiling in the developing neuroendocrine system of the chick. Graduate program in Animal and Avian Sciences.

Saruchi Mishra 2006 to 2010 PhD Dissertation topic: Obesity in ethnic minorities in the Washington DC area Graduate Program in Nutrition.

Diwaker Vyas 2007 to 2011 PhD Dissertation topic: DeNovo synthesized fatty-acids (DNFA) as regulators of milk fat synthesis. Graduate program in Animal and Avian Sciences.

Xiaodong Xia 2008 to 2010 PhD Dissertation topic: Identification and characterization of pathogenic E coli in retail meats. Graduate program in Food Science.

David Ingram 2005 – 2009 PhD Dissertation topic: Implications of Foodborne pathogen survival during production and pre-harvest application of Compost and Compost Tea. Graduate Program in Food Science. 2009 UMCP.

Raymond C. Merritt, Jr. 2009 Dissertation topic: Myosins IIIA and IIIB regulate stereocilia length by transporting espin1 to the polymerizing end of actin filaments. Graduate program in Biology 2009 UMCP.



Emilee Senkevitch 2009 to present PhD Dissertation topic: The role of arginine in T cell function. Graduate program in Molecular and Cell Biology.

Patrick D. Williams 2008 to 2011 PhD Dissertation topic: Characterization of physicochemical properties of xanthan/curdlan hydrogel complex for applications in frozen food products. Graduate program in Food Science.

Margaret Mary Slavin. 2008 to 2011 Ph.D. Dissertation topic: Value added factors in soybeans. Graduate program in Food Science.

Avani Mukesh Sanghvi 2008-2009 Master's thesis topic: Characterization of algal biomeal for applications in food. Graduate program in Food Science.

Boce Zhang 2010-2012 Ph.D. dissertation topic: Silver-Zein composites as antimicrobial agents. Graduate Program in Food Science

Zi Teng 2013-present Ph.D. dissertation topic: Food protein-based nanoparticles as bioavailability enhancing encapsulants. Graduate Program in Food Science.

Yuting Zhou 2012-2013 Ph.D. dissertation topic: Effect of noble metal nanomaterials on endogenous and dietary antioxidants and their combined interaction with ROS. Graduate Program in Food Science.

Haiqiu Huang 2013 to present Ph.D. dissertation topic: Effect of antioxidants on growth and development. Graduate Program in Food Science.

Cassandra Taylor 2013 to present Ph.D. dissertation topic: Purple pepper plants, an anthocyanin powerhouse: extraction, separation and characterization. Graduate Program in Chemistry.

Sarah Potts 2015 to present. Ph.D. dissertation topic: Bovine milk production. Graduate Program in Animal Science.

Postdoctoral Mentor

III.C.4. Post-doctoral

Abdul Kamara, Ph.D. 1992-1993

Anna Schlappal, Ph.D 2013-2014

III.C.5. Other Research Directions (*K-12 Interactions*)

III.D. Mentorship

III.D.1. Junior Faculty

Served as department-appointed faculty member to Dr. Qin Wang and Dr. Abani Pradhan

III.D.2. Other

III.E. Advising: Other than Research Direction

III.E.1. Undergraduate

III.E.2. Master's

III.E.3. Doctoral

III.E.4. Post-doctoral

III.E.5. Other Advising Activities

*(Include advising student groups, special assignments, recruiting, etc.)*

III.F. Professional and Extension Education

III.F.1. Professional Programs Established

III.F.2. Major Extension Programs

III.F.3. Workshops

III.F.4. Other

III.G. Other Teaching Activities

*Served as mentor for Gemstone team 2014 to present*

## IV. Service and Outreach

### IV.A. Editorships, Editorial Boards, and Reviewing Activities

*Include participation for journals and other learned publications (print and electronic).*

#### IV.A.1. Editorships

#### IV.A.2. Editorial Boards

|                 |  |
|-----------------|--|
| 1989 to present | Editorial Board Member, <u>Physiology and Behavior</u>   |
| 1991 to 1995    | Editorial Board Member, <u>American Journal of Physiology</u>  |
| 1988-1990       | Editor-in-Chief <u>SSiblings</u> - The official newsletter of the Society for the Study of Ingestive Behavior. |
| 1987-1988       | Associate Editor - <u>Behavioral and Brain Sciences</u> .  |

#### IV.A.3. Reviewing Activities for Journals and Presses

Journal of Nutrition  
American Journal of Physiology  
Physiology and Behavior  
Appetite  
Life Sciences  
American Journal of Clinical Nutrition  
Neuroendocrinology  
British Journal of Nutrition  
Proceedings for the National Academy of Science

#### IV.A.4. Reviewing Activities for Agencies and Foundations

Panel member of the UMCP-UMB Seed Grant Study section. Spring, 2012

Panel member of the MAES Competitive Grant Program Study Section Spring 2012

Panel member of the MAES Competitive Grant Program Study Section Spring 2013

National Institutes of Health – Special Emphasis Panel member – Fellowship competition  
– NIDDK 2013 to present

National Institutes of Health – Special Emphasis Panel member – Fellowship competition  
– NIDDK 2009-2010

National Institutes of Health – Special Emphasis Panel member – Clinical Nutrition  
Research Unit Core Centers – NIDDK 2006-2007

National Institutes of Health – Special Emphasis Panel member – Clinical Nutrition

Research Unit Core Centers – NIDDK Fall 2005

U.S. Department of Agriculture - National Research Initiative Competitive Grants Program - Study Section – ad hoc reviewer - Fall 2005

Howard Hughes Medical Institute – Undergraduate Fellowship Program - Scientific reviewer – Fall 2004 and Summer, 2005

U.S. Department of Agriculture - National Research Initiative Competitive Grants Program - Study Section – Ad hoc reviewer - Spring 2004

National Institutes of Health – Regular Study Section member – Minority Biomedical Research Support Subcommittee B – February 2003

National Institutes of Health - Regular Study Section member - Small Business Innovative Research - Fall 2000

National Institutes of Health - Regular Study Section member - Small Business Innovative Research - Summer 2000

U.S. Department of Agriculture - National Research Initiative Competitive Grants Program - Study Section - Regular member - Spring 2000

Maryland Institute for Agriculture and Natural Resources  
1993 Study section member - Competitive Grants Program

National Science Foundation - External Grant reviewer 1988

U.S. Dept Agriculture - External Extramural grants program proposal reviewer 1990

Board of Regents - State of Louisiana - External grant reviewer 1990-1998

National Research Council of Canada - External grant reviewer 1992

U.S.D.A. - Beltsville - Human Nutrition Research Center program reviewer 1993-94

Department of Veteran Affairs - Washington, D.C. Review Medical Research Service nominees for promotion.

National Institutes of Health - Ad Hoc Study Section member - Neuroscience II 1995

National Institutes of Health - Ad Hoc Study Section member - Minority Research Career Program - 1996

#### IV.A.5. Reviewing Activities for Conferences

IV.A.6. Historical Editorships, etc. (10+ years ago)

IV.A.7. Other

IV.B. Committees, Professional & Campus Service

IV.B.1. Campus Service – Department

|                       |   |
|-----------------------|---|
| 2012 – present        | Chair – Search committee for USDA/UMD Cooperative Agreement personnel |
| 1988 - present        | Departmental Animal Facility coordinator                              |
| 2009 - 2013           | Departmental Advisory Committee                                       |
| 2014- present         | Department Chair search committee                                     |
| 2015                  | Dr. Song 3 <sup>rd</sup> year review committee                        |
| 2008                  | Chair – Departmental Planning Committee                               |
| 2007                  | Chair – Search committee for Student Coordinator                      |
| 2005-present          | Departmental Compliance Officer                                       |
| 2005                  | Chair – Promotion and Tenure Committee for Bernadene Magnuson         |
| 2005                  | Member – Promotion and Tenure Committee for Jianghong Meng            |
| 2005                  | Chair – Promotion and Tenure Committee for Cheng-I Wei                |
| 2005                  | Chair – Promotion and Tenure Committee for M. Parish                  |
| 2004                  | Chair – Promotion and Tenure Committee for R. Jackson                 |
| 2004                  | Chair - Faculty Advisory Committee                                    |
| 2003                  | Department Promotion and Tenure Committee                             |
| 2001-2002             | Chair- Dept Promotion and Tenure Committee                            |
| 1999-2001             | Department Promotion and Tenure Committee                             |
| 1998-1999             | Chair, Department Search Committee                                    |
| 1997-1998             | Departmental Safety Officer   |
| 1996                  | Chair, Department Search Committee                                    |
| 1988 to 1994          | Department Computer Committee   |
| 1988-1992 & 1993-1994 | Department Search Committee   |
| 1992-1993             | Graduate Nutrition Program Faculty Advisory Committee (elected).      |
| 1988 to 1990          | Human Subjects Review Committee                                       |

IV.B.2. Campus Service – College

|           |   |
|-----------|---|
| 2012-2013 | Chair – Promotion & Tenure committee, Department of Veterinary Medicine |
| 2011      | AGNR SACNAS recruiter   |
| 1993      | Restructuring Committee   |
| 2004      | AGNR 101 Development Committee  |
| 2003-2005 | Ag Council Faculty Advisor  |

|                                     |   |
|-------------------------------------|---|
| 2003                                | Ad Hoc selection committee member for<br>Outstanding Advisor – COANR  |
| 1999-2001                           | Promotion & Tenure committee  |
| 1998-1999                           | Chair, PCC committee  |
| 1997 -1998                          | PCC committee   |
| 1994                                | Strategic Planning Committee  |
| IV.B.3. Campus Service – University |   |
| 2015 to present                     | Behavior and Brain Institute Advisory Committee   |
| 2013 to present                     | Maryland Neuroimaging Center user’s group   |
| 2012                                | Search Committee member – Associate Dean for Student Success – Graduate School<br>UMCP                                      |
| 2012                                | Judge – Graduate Research Interaction Day   |
| 2011                                | Judge – Bioscience Day  |
| 2008 to present                     | Member of the Animal Resource Advisory Committee  |
| 2007                                | Judge – Bioscience Day  |
| 2005-2006                           | Search Committee member – Dean, Graduate School   |
| 2005-2006                           | Member of the Vice President of Research’s Ad Hoc<br>committee on Campus Animal Facility<br>upgrades – AAALAC accreditation |
| 2003                                | Judge – Bioscience Day  |
| 2003-2005                           | Search Committee member – Dean, College of Agriculture<br>and Natural Resources   |
| 2000-2002                           | Chair, Programs Courses and Curricula Committee<br>University of Maryland Graduate School                                   |
| 2000-2002                           | Executive Committee - Neural and Cognitive Sciences<br>Program  |
| 1999                                | Graduate Research Board review committee  |
| 1998                                | Graduate Program Review Committee   |
| 1996 – 1999                         | Graduate School Fellowship Committee  |
| 1997 – 1998                         | Executive Committee – Neural and<br>Cognitive Sciences Program  |

|                               |  |
|-------------------------------|--|
| 1991 - 1994<br>1992 - 1994    | Department representative to the Academic Senate<br>Faculty Affairs Senate Subcommittee.                                     |
| 1988 to 1995; Chair 1992-1995 | Animal Care and Use Committee.   |
| 1993-1994                     | Zoonotic Disease Subcommittee of the ACUC-BACH<br>committees   |
| 1989-1992<br>1989             | Campus Computer Coordinating Committee<br>Search Committee - Maryland Agricultural Experiment<br>Station Associate Director  |
| 1988-1991<br>1993 -1996       | Neuroscience program - Ad Hoc Publicity Committee<br>Steering Committee member - Center for Cognitive and<br>Neural Sciences |

IV.B.4. Campus Service - Special Administrative Assignment

IV.B.5. Campus Service - Other

IV.B.6. Offices and Committee Memberships

IV.B.7. Leadership Roles in Meetings and Conferences

IV.B.8. Other Non-University Committees, Memberships, Panels, etc.

IV.B.9. Historical Committees, etc. (10+ years ago)

IV.B.10. Other

IV.C. External Service and Consulting

IV.C.1. Community Engagements, Local, State, National, International

IV.C.2. International Activities

IV.C.3. Corporate and Other Board Memberships

IV.C.4. Entrepreneurial Activities

IV.C.5. Consultancies (*to local, state and federal agencies; companies; organizations*)

W.H. Freeman Publishing, New York, NY 2014 Assisted in the review of new text book.

McMillan Publishing, New York, NY 2014 Assisted in the review of a new text book in  
Introductory nutrition

W.H. Freeman Publishing, New York, New York. 2012 Assisted in the review of Scientific  
American Nutrition TOC textbook.

McGraw Hill Publishing, Des Moines, IA 2012 Assisted in the review of a new Introductory  
Nutrition textbook.

United States Food and Drug Administration, College Park, MD. Delivered a series of 5 lectures  
on Food Analysis for the FDA Staff College. 2004 and again in 2005

Amylin Pharmaceuticals, Inc. San Diego CA 2005 - 2006 Assisted in the development of  
methods for measuring food intake in rats.

Pearson Publishing, Columbus, OH 2007 Assisted in the development of new Introductory Nutrition Text.

Ajinomoto Corporate Services LLC 2007 Washington DC. Assisted in the development of a new weight loss nutrient supplement.

AOAC International 2011 - 2012 Rockville Maryland. Served as a voting stakeholder panelist on Strategic Food Analytical Methods (SPSFAM) to develop standards for antioxidants, contaminants, flavonoids, and modernizing methods for raw ingredients in food.

#### IV.C.6. Historical External Service and Consulting (10+ years ago)

Burson-Marsteller Inc., New York, NY 1986 Assisted in the production and release of a short film focusing on proper nutrition, exercise and obesity.

Physiology Department, Baylor College of Dentistry, Dallas TX, 1987. Designed and assembled an automated food intake monitoring system.

Louisiana State Board of Regents, Baton Rouge, L.A 1990. Reviewed grant proposals submitted to the Board of Regents.

Saunders College Publishing, Philadelphia PA Reviewed Introductory Nutrition textbook - 1994.

Leveille Associates, Danville NJ Provided expert opinion on bioactive foods and herbal supplements and their impact on the neurochemistry of mood. 1999.

Wadsworth Thompson Learning Inc. Member of a focus group reviewing Introductory Nutrition textbook. 2003 - 2004

John Wiley and Sons. Reviewed Introductory Nutrition textbook – 2004

McGraw-Hill Publishing Inc. Member of a focus group reviewing Introductory Nutrition texts and media. 2004.

#### IV.C.7. Other

#### IV.D. Non-Research Presentations

IV.D.1. Outreach Presentations

IV.D.2 Other

#### IV.E. Media Contributions

IV.E.1. Internet

IV.E.2. TV



IV.E.3. Radio

NPR Interview 2006

<http://www.npr.org/player/v2/mediaPlayer.html?action=1&t=1&islist=false&id=6700905&m=6700910&live=1>

IV.E.4. Digital Media

IV.E.5. Print Media

IV.E.6. Blogs

IV.E.7. Feeds

IV.E.8. Other

IV.F Community & Other Service

## **V. Awards, Honors and Recognition**

### V.1. Research Fellowships, Prizes and Awards

University of Maryland at College Park College of Agriculture and Natural Resources  
Alumni Association Excellence in Research award, 1997

Finalist, Invention of the Year, Office of Research Technology, University of Maryland,  
2003

### V.2 Teaching Awards

University of Maryland at College Park Certificate of Teaching Excellence  
awards, 1998, 2000 and 2002

Gamma Sigma Kappa Award for Teaching Excellence, 2011

### V.3 Service Awards and Honors

Nominee for Outstanding Supervisor of the Year, Annual National Student Employment Week,  
University Career Center and the President's Promise, University of Maryland, 2008

### V.4 Recognition in Media

### V.5 Other Special Recognition

## **VI. Other Information**