

CURRICULUM VITAE
C. Shawn Dotson, Ph.D.

CURRENT ADDRESS

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FAMILY STATUS

Married

CITIZENSHIP

USA

EDUCATION

Doctor of Philosophy (Ph.D.)	University of Florida, Behavioral Neuroscience
Master of Science (M.S.)	University of Florida, Clinical Neuropsychology
Bachelor of Arts (B.A.)	University of West Florida, Psychology

PROFESSIONAL EXPERIENCE

Georgia State University, Atlanta, GA Assistant Professor , Neuroscience Institute (Tenure-Track)	January 2021
The Coca-Cola Company, Atlanta, GA Principal Scientist , Ingredient Functionality and Taste Physiology	July 2016 – April 2020
University of Florida College of Medicine, Gainesville, FL Assistant Professor , Department of Neuroscience (Tenure-Track)	January 2010 – July 2016
University of Maryland School of Medicine, Baltimore, MD Research Fellow , Department of Anatomy and Neurobiology	Sept 2006 – December 2009

HONORS

- Selected as a Review Editor for Frontiers in Aging Neuroscience (2016)
- AdHoc Reviewer, NIH, Somatosensory and Chemosensory Systems Study Section (2011 -14, 2016)
- Session chair, "Psychophysics of Flavor," University of Florida Center for Smell and Taste Planning Workshop (2015)
- Recipient of the Exemplary Teachers Award from the University of Florida College of Medicine (2011 – 13, 2014 –'15)
- Selected to serve on the 2016 AChemS Annual Meeting Program Committee (2015).

- Elected to serve on the Executive Committee of AChemS as a Senior Councilor (2015).
- Elected to serve on the Executive Committee of AChemS as a Junior Councilor (2014).
- Participated in American Association for the Advancement of Science (AAAS) Research Competitiveness Program panel to develop a literature review on the topic of "Low-calorie Sweeteners - T1R Taste Receptor Binding and Impact on Glucose Homeostasis (2014)
- Recipient of the Ajinomoto Award for Young Investigators in Gustation (2014)
- Chair, Non-Oral Sensory Receptors Symposium, Obesity 2011, the 29th Annual Scientific Meeting of The Obesity Society (2011)
- Recipient of a second Association for Chemoreception Sciences (AChemS) Travel Fellowship (2009)
- Recipient of a Clinical Loan Repayment Program Award from the National Institutes of Health (NIH) (2008)
- Named to the American Association for the Advancement of Science (AAAS)/Science Program for Excellence in Science (2008)
- Fellow, National Institutes of Health Training Program in Oral and Craniofacial Biology (2007)
- Recipient of an AChemS Polak Young Investigator Award (2007)
- Fellow, NIH Training Program in Chemosensory Neuroscience (2006)
- Recipient of the Robert A. and Phyllis Levitt Award for outstanding achievement in research in psychobiology (2005)
- Recipient of a NIH National Research Service Award Training Grant (2004)
- Recipient of a Society for the Study of Ingestive Behavior New Investigator Travel Award (2004)
- Recipient of an AChemS Travel Fellowship (2004)
- Accepted into the Society for Neuroscience's Neuroscience Scholars Program (2004)
- Recipient of a University of Florida Graduate Fellowship (1999)
- Named to the American Psychological Association's Minority Undergraduate Students of Excellence Program (1998)
- Accepted into and completed the National Science Foundation's Summer Science Research Institute (1998)
- While at the University of West Florida, named to the President's List every semester in attendance (1998)
- Graduated magna cum laude from the University of West Florida (1998)
- Recipient of a University of West Florida Academic Scholarship (1996)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

The American Association for the Advancement of Science
Association for Chemoreception Sciences
The Obesity Society
Society for the Study of Ingestive Behavior
Society for Neuroscience

SERVICE ACTIVITIES

April 2016	Member, Department of Neuroscience Faculty Search Committee
March 2016	Judge, UF/NCF SfN Brain Awareness week Student Poster Competition
2011 – '14, 2016	AdHoc Reviewer, NIH, Somatosensory and Chemosensory Systems Study Section
November 2015 – 2016	Chair, IDP Neuroscience Admissions Sub-committee
November 2015	Session chair, "Psychophysics of Flavor," University of Florida Center for Smell and Taste Planning Workshop
July 2015 – 2016	Member, IDP-BMS Diversity Recruitment/Development Committee

April 2015	Member, "Neurobiology of Olfaction" Faculty Search Committee
March 2015	Judge, Brain Awareness Week Poster Session
February 2015	LCME 'Junior Faculty' accreditation preparation and session
July 2014	LCME Mock Site Visit
December 2011 – 2016	Member, IDP Admissions Committee
September 2011 – 2013	Member, Center for NeuroGenetics Faculty Search Committee
March 2013	Member, Community Dentistry & Behavioral Science Faculty Search Committee
May 2013	Marshall, College of Medicine Graduation Ceremony
December 2010 – June '11	Member, Joint Neuroscience/Psychiatry Faculty Search Committee
November 2010 and '11	Laboratory Host Participant, University of Florida Mini Medical School, McKnight Brain Institute
October 2011	Chair, Non-Oral Sensory Receptors Symposium, 29 th Annual Scientific Meeting of The Obesity Society
February 2011	Department of Neuroscience Judge, 36 th Annual Medical Guild Research Competition, McKnight Brain Institute, Gainesville, FL
March 2010	Judge, 5 th Annual Neuromuscular Plasticity Symposium, McKnight Brain Institute and University of Florida President's House, Gainesville, FL

TEACHING AND TRAINING EXPERIENCE

Spring 2016:	<i>Course Director</i> <i>Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida</i> (Course: Center for Smell and Taste Seminar Series Discussion Group - GMS7795)
Fall 2014 – '15	<i>Laboratory Instructor/Leader</i> <i>University of Florida College of Medicine, Gainesville, Florida</i> (Course: Clinical Neuroscience – BMS 6020)
Summer 2011 – '15	<i>Lecturer</i> <i>Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida</i> (Course: Functional Human Neuroanatomy – GMS6705)
Spring 2013 – '14	<i>Lecturer</i> <i>Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida</i> (Course: Principles of Neuroscience IV - Neural Integration & Control – GMS6024)
Spring 2011 – '13	<i>Lecturer</i> <i>Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida</i> (Course: Principles of Neuroscience II - Cellular and Molecular Neuroscience - GMS7795)

- Fall 2012 and Spring '13 *Course Director*
Interdisciplinary Program in Biomedical Sciences, University of Florida,
Gainesville, Florida
(Course: Chemosensory Reception and Sensation - GMS6029)
- Spring 2006: *Course Instructor*
University of Florida, Gainesville, Florida
Responsibilities: Taught a course in Physiological Psychology
(Course #: PSB 3004, section #: 3546)
- August 2000 – May 2001: *Team Leader*
University of Florida, Gainesville, Florida
Responsibilities: Conducted "The Walking Project" teaching sessions in
accordance with mandates articulated in the grant ["Dose-Response to Exercise
and Cardiovascular Health"]

TRAINEES

Student	Home Dept.	Role on Committee As Chair or Member	Degree/Anticipated Completion date
Patricia Grebenstein	Psychology	Member	Ph.D. 2012
Michael La Sala	Medicine	Chair	M.S. 2013
Seth Currin	Medicine	Chair	M.S. 2013
Michael Guidi	Neuroscience	Member	Ph.D. 2014
Jennifer Stamps	Neuroscience	Member	Ph.D. 2014
Dulce Minaya	Psychology	Member	Ph.D. 2016
Sean Crosson	Physiology & Pharmacology	Member	Ph.D. 2017
Peter Dib	Medicine	Member	M.S. 2017
Nathan Petro	Psychology	Member	Ph.D. 2018

EDITOR OF SCHOLARLY JOURNALS

Review Editor, *Frontiers in Aging Neuroscience*

AD HOC REVIEWER FOR PEER-REVIEWED JOURNALS

NUMBER OF REVIEWS

Alcohol and Alcoholism	1
Alcoholism: Clinical and Experimental Research	1
BMC Pediatrics	1
Chemical Senses	2
Current Protocols in Protein Science	1
Experimental Physiology	1
FASEB Journal	1
Journal of Neuroscience	1
Journal of Oral Pathology and Medicine	1
Journal of Physiology	1
Neurophysiology	1
Neuroscience	2
Nutrients	1
Nutritional Neuroscience	1
Physiology and Behavior	1

PUBLICATIONS IN PREPARATION OR IN REVIEW

1. Crosson S.M., **Dotson C.D.**, Munger S.D. and Zolotukhin S. *Gastrointestinal hormones impact upon taste perception, ingestive behavior, and body mass accumulation when over expressed in saliva*. J Neurosci (*in preparation*).
2. Malone I.G., Keenan B.C., Rossow H.L., Herzog H., Zolotukhin S., Munger S.D. and **Dotson C.D.** *Y1 receptor signaling modulates taste-related behavioral responsiveness towards prototypical gustatory stimuli*. Horm Behav (*in preparation*).

PUBLICATIONS

1. Crosson S.M., Marques A., Dib P., **Dotson C.D.**, Munger S.D. and Zolotukhin S (2019) *Taste receptor cells in mice express receptors for the hormone adiponectin*. Chem Senses, 44(6), 409 – 422.
2. Hudson S.D., Sims C.A., Odabasi A.Z., Colquhoun T.A., Snyder D.J., Stamps J.J., **Dotson C.D.**, Puentes L., and Bartoshuk L.M. (2018) *Flavor alterations associated with miracle fruit and gymnema sylvestre*. Chem Senses, 43(7), 481 – 488.
3. Williams J.A., Bartoshuk L.M., Fillingim R.B., and **Dotson C.D.** (2016) *Exploring ethnic differences in taste perception*. Chem Senses, 8(2), 61 – 77.
4. Ciullo D.L., and **Dotson C.D.** (2015) *Using animal models to determine the role of gustatory neural input in the control of ingestive behavior and the maintenance of body weight*. Chemosens Percept, 8(2), 61 – 77.
5. Loper H.B., La Sala M., **Dotson C.D.**, and Steinle N.I. (2015) *Taste perception, associated hormonal modulation, and nutrient intake*. Nutr Rev, 73(2), 83 – 91.
6. Clark A.A., **Dotson C.D.**, Elson A.E.T., Voigt, A., Boehm, U., Meyerhof, W., Steinle N.I., and Munger S.D. (2014) *TAS2R bitter taste receptors regulate human thyroid function*. FASEB J, 29(1), 164 – 172.
7. Hurtado M.D., Sergeev V., Acosta A., Spegele M., La Sala M., Herzog H., **Dotson C.D.**, Gorbatyuk O., and Zolotukhin S. (2013) *Salivary PYY₃₋₃₆ modulates ingestive behavior without inducing taste aversion*. J Neurosci, 33(47), 18368 – 18380.
8. La Sala M., Hurtado M.D., Brown A.R., Bohórquez D.V., Liddle R.A., Herzog H., Zolotukhin S., and **Dotson C.D.** (2013) *Modulation of taste responsiveness by the satiation hormone peptide YY*. FASEB J, 27(12), 5022 – 5033.
9. **Dotson C.D.** Geraedts M.C.P., and Munger S.D (2013). *Peptide regulators of peripheral taste function*. Semin Cell Dev Biol, 24(3), 232 – 239.
10. Hurtado M.D., Acosta A., Riveros P.P., Baum B., Ukhanov K., Brown A.R., **Dotson C.D.**, Herzog H., and Zolotukhin S (2012) *Distribution of Y-receptors in murine lingual epithelia*. PLoS One, 7(9), e46358.
11. **Dotson C.D.**, Colbert C.L., Garcea M., Smith J.C., and Spector A.C. (2012) *The consequences of gustatory deafferentation on body mass and feeding patterns in the rat*. Am J Physiol Regul Integr Comp Physiol, 303(6), R611 – 623.
12. **Dotson C.D.**, Wallace M.R., Bartoshuk L.M., and Logan H.L. (2012) *Variation in the gene TAS2R13 is associated with differences in alcohol consumption in patients with head and neck cancer*. Chem Senses, 37(8), 737-744.
13. **Dotson C.D.** and Steinle N.I. (2012) *Genetic Predisposition and Taste Preference*. Current Nutrition

Reports, 1(3), 175 – 183.

14. Geraedts M.C.P., Takahashi T., Vignes S, Cockerham R.E., Nkobena A., Hajnal A., **Dotson C.D.**, Rizzo M.A., and Munger S.D. (2012) *Sweet taste receptor-independent GLP-1 secretion emerges in colon upon gastric bypass*. *Am J Physiol Endocrinol Metab*, 303(4), E464 – E474.
15. Elson A.E.T., **Dotson C.D.**, Egan J.M., and Munger S.D. (2010) *Glucagon signaling modulates sweet taste responsivity*. *FASEB J*, 24(10), 3960 – 3969.
16. **Dotson C.D.** (2010) *The search for mechanisms underlying the sour taste evoked by acids continues*. *Chem Senses*, 35(7), 545 – 547.
17. **Dotson C.D.**¹, Vignes S.¹, and Munger S.D. (2010) *T1R and T2R receptors: modulation of incretin hormones and potential targets for treatment of Type 2 diabetes mellitus*. *Curr Opin Investig Drugs* 11(4), 447 – 454 (¹These authors contributed equally to the work).
18. **Dotson C.D.**, Shaw H., Munger S.D., and Steinle N.I. (2010) *Variation in the gene TAS2R38 is associated with the eating behavior disinhibition in Old Order Amish women*. *Appetite*, 54(1), 93 – 99.
19. Martin B.¹, **Dotson C.D.**¹, Shin Y.K., Ji S., Drucker D.J., Maudsley S., and Munger S.D. (2009) *Modulation of taste sensitivity by GLP-1 signaling in taste buds*. *Ann N Y Acad Sci*, 1170, 98 – 101 (¹These authors contributed equally to the work).
20. Vignes S.¹, **Dotson C.D.**¹, and Munger S.D. (2009) *The receptor basis of sweet taste in mammals*. *Results Probl Cell Differ*, 47, 187 – 202 (¹These authors contributed equally to the work).
21. **Dotson C.D.**, Zhang L., Xu H., Shin Y.K., Vignes S., Ott S.H., Elson A.E.T., Choi H.J., Shaw H., Egan J.M., Mitchell B.D., Li X., Steinle N.I., and Munger S.D. (2008) *Bitter taste receptors influence glucose homeostasis*. *PLoS ONE*, 3(12), e3974.
22. Shin Y.K.¹, Martin B.¹, Golden E., **Dotson C.D.**, Maudsley S., Kim W., Jang H.J., Mattson M.P., Drucker D.J., Egan J.M., and Munger S.D. (2008) *Modulation of taste sensitivity by GLP-1 signaling*. *J Neurochem*, 106(1), 455 – 463 (¹These authors contributed equally to the work).
23. **Dotson C.D.** and Spector A.C. (2007) *Behavioral discrimination between sucrose and other natural sweeteners in mice: implications for the neural coding of T1R ligands*. *J Neurosci*, 27(42), 11242 – 11253.
24. **Dotson C.D.** and Spector A.C. (2005) *The effects of drinking spout orifice size on licking behavior in inbred mice*. *Physiol Behav*, 85(5), 655 – 661.
25. **Dotson C.D.**, Roper S.D. and Spector A.C. (2005) *PLC β 2-independent behavioral avoidance of prototypical bitter-tasting ligands*. *Chem Senses*, 30(7), 593 – 600.
26. **Dotson C.D.** and Spector A.C. (2004) *The relative affective potency of glycine, L-serine and sucrose as assessed by a brief-access taste test in inbred strains of mice*. *Chem Senses*, 29(6), 489 – 498.

PEER-REVIEWED BOOK CHAPTERS

1. Spector A.C., Eylam S., and **Dotson C.D.** (2008) *The use of rodent models to link neurobiological processes with the psychophysics of sweet taste*. In: *Sweetness and sweeteners: biology, chemistry, and psychophysics* (Weerasinghe, D.K. and DuBois, G.E., eds). Washington, D.C.: American Chemical Society.

OTHER COMMUNICATIONS

1. Hurtado D, Acosta A., Gorbatyuk O., La Sala M., Duncan D., Aslanidi G., Campbell-Thompson M., **Dotson C.D.**, Zhang L., Herzog H., Baum B.J., Zolotukhin S. *Saliva additives may aid treatment for obesity*.

Association for Chemoreception Sciences (ACheMS) 33rd Annual Meeting Press Release (2011).

2. Shaw H., **Dotson C.D.**, Munger S.D., and Steinle N.I. *Genetic variation in taste receptors and eating behavior*. Cyberounds continuing medical education conference (2009).
3. **Dotson C.D.** and Spector A.C. *Taste discriminability of some sugars and L-amino acids by mice*. Press release from the 36th annual meeting of the Society for Neuroscience, Atlanta, Georgia (2006).

GRANTS

Dates: July. 15th 2013 – June 30th 2018
Role: Principal Investigator
Title: *Modulation of taste-related behavior by molecular mediators of appetite & satiety*
Grant Number: R01DC012819
Funding agency: NIH/NIDCD

Dates: Jan. 1st 2011 – July 1st 2013
Role: Principal Investigator
Title: *Hormonal modulation of alcohol taste*
Funding agency: The Alcoholic Beverage Medical Research Foundation/The Foundation for Alcohol Research

Dates: Oct. 1st 2009 – Sept. 30th 2011
Role: Faculty
PI: Barry Ache
Title: *The University of Florida Biomedical Research Core Center for Smell and Taste*
Project Number: 5 P30 DC010763 02
Funding agency: National Institute on Deafness and Other Communication Disorders

Dates: Sept. 13th 2004 – Aug. 12th 2006
Role: Principal Investigator
Title: *Psychophysical evaluation of sweet taste perception in mice*
Project Number: 5 F31 DC007358 02
Funding agency: National Institute on Deafness and Other Communication Disorders

ABSTRACTS

Crosson S.M., Currlin S.W., Khan T., **Dotson C.D.** and Zolotukhin S. *Sustained weight loss and altered lipid taste sensitivity induced by modulation of salivary PYY and excendin-4 in mice*. Abstract and poster presented at the 19th annual meeting of the American Society of Gene & Cell Therapy, Washington, DC (May 2016).

Bartoshuk L.M., Colquhoun T.A., **Dotson C.D.**, Hudson S.D., Odabasi A.Z., Puentes L., Sims C.A., Snyder D.J., and Stamps J.J. *Taste and retronasal olfaction (volatiles perceived from the mouth) interact in the brain to produce flavor*. Abstract and poster presented at the 38th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2016).

Crosson S.M., Currlin S.W., Khan T., **Dotson C.D.** and Zolotukhin S. *Sustained weight loss and altered lipid taste sensitivity induced by modulation of salivary PYY and excendin-4 in mice*. Abstract and poster presented at the 38th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2016).

Crosson S.M., Currlin S.W., Khan T., **Dotson C.D.** and Zolotukhin S. *Sustained weight loss and altered lipid*

taste sensitivity induced by modulation of salivary PYY and excendin-4 in mice. Abstract and poster presented at the 11th annual symposium of the UF Genetics Institute, Gainesville, FL (November 2015).

Sergeyev V.G., Crosson S.M., Currllin S.W., Henson B.S., Colon Perez L.M., Febo M., **Dotson C.D.** and Zolotukhin S. *Functional and physical mapping of PYY-responsive cranial neuronal network in mice.* Abstract and poster presented at the 11th International NPY-PYY-PP meeting, Leibzig, Germany (August 2015).

Snyder D.J., Bartoshuk L.M., Grushka M., Stamps J.J., Colquhoun T.A., Schweiterman M.L., Odabasi A.Z., Sims C.A., and **Dotson C.D.** *Pathology, fungiform papillae density and perceived taste intensity.* Abstract and poster presented at the 37th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2015).

Sergeyev V.G., Crosson S.M., Currllin S.W., Henson B.S., Colon Perez L.M., Febo M., **Dotson C.D.** and Zolotukhin S. *Functional and physical mapping of PYY-responsive cranial neuronal network in mice.* Abstract and poster presented at the 37th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2015).

Clark A.A., **Dotson C.D.**, Elson A.E.T., Steinle N.I., and Munger, S.D. *A role for bitter taste receptors in thyroid toxicity and hormone production.* Abstract and poster presented at the 35th annual meeting of the Association for Chemoreception Sciences, Huntington Beach, CA (April 2013).

Hurtado M.D., Acosta A., Gorbatyuk O., Sergeyev V.G., **Dotson C.D.**, and Zolotukhin S. *Salivary PYY regulates CNS nuclei involved in feeding behavior and taste perception.* Abstract and poster presented at the 30th annual meeting of the Obesity Society, San Antonio, Texas (October 2012).

La Sala M., Hurtado M.D., Acosta A., Riveros P.P., Baum B., Brown A.R., **Dotson C.D.**, Herzog H., and Zolotukhin S. *Expression of NPY family genes in lingual cells: novel anatomical domain and physiological functions.* Abstract and poster presented at the 34th annual meeting of the Association for Chemoreception Sciences, Huntington Beach, California (April 2012).

Hurtado M.D., Acosta A., Riveros P.P., Baum B., Brown A.R., **Dotson C.D.**, Herzog H., and Zolotukhin S. *Characterization of Y receptors expression in salivary glands (SG) and modulation of feeding behavior by SG gene delivery.* Abstract and poster presented at the 34th annual meeting of the Association for Chemoreception Sciences, Huntington Beach, California (April 2012).

Hurtado M.D., Acosta A., Gorbatyuk O., Sergeyev V.G., **Dotson C.D.**, Herzog H., and Zolotukhin S. *Anorectic signaling pathway mediated by salivary PYY.* Abstract and poster presented at the 34th annual meeting of the Association for Chemoreception Sciences, Huntington Beach, California (April 2012).

La Sala M., Hurtado M.D., Acosta A., Brown A.R., Herzog H., and Zolotukhin S., and **Dotson C.D.** *Expression of NPY family genes in the oral cavity: novel anatomical domain and physiological functions.* Abstract and poster presented at the University of Florida College of Medicine Celebration of Research, Gainesville, Florida (March 2012).

La Sala M., Hurtado M.D., Zolotukhin S., and **Dotson C.D.** *Modulation of taste sensitivity by PYY signaling.* Abstract and poster presented at the 33rd annual meeting of the Association for Chemoreception Sciences, St. Petersburg, Florida (April 2011).

Hurtado M.D., Acosta A., Gorbatyuk O., La Sala M., Duncan D., Aslanidi G., Campbell-Thompson M., **Dotson C.D.**, Zhang L., Herzog H., Baum B.J., and Zolotukhin S. *Salivary PYY: a putative bypass to satiety.* Abstract and poster presented at the 33rd annual meeting of the Association for Chemoreception Sciences, St. Petersburg, Florida (April 2011).

Takahashi T., **Dotson C.D.**, Geraedts M.C.P., and Munger S.D. *Mice lacking T1R3 exhibit impaired glucose tolerance and a deficient insulin response.* Abstract and poster presented at the 33rd annual meeting of the Association for Chemoreception Sciences, St. Petersburg, Florida (April 2011).

Elson A.E.T., **Dotson C.D.**, Egan J.M., and Munger S.D. *Glucagon modulates sweet taste sensitivity.* Abstract and poster presented at the 39th annual meeting of the Society for Neuroscience, Chicago, Illinois (October

2009).

Shaw H., **Dotson C.D.**, Munger S.D., and Steinle N.I. *Genetic variation in TAS2R38 and eating behavior in women, findings in the Old Order Amish*. Abstract and poster presented at the 91st annual meeting of the Endocrine Society, Washington, DC (June 2009).

Dotson C.D., Shaw H., Munger S.D., and Steinle N.I. *Association of a TAS2R38 polymorphism and the eating behavior disinhibition in a female Amish cohort*. Abstract and poster presented at the 31st annual meeting of the Association for Chemoreception Sciences, Sarasota, Florida (April 2009).

Elson A.E.T., **Dotson C.D.**, Egan J.M., and Munger S.D. *Modulation of sweet taste sensitivity by glucagon signaling in taste buds*. Abstract and poster presented at the 31st annual meeting of the Association for Chemoreception Sciences, Sarasota, Florida (April 2009).

Dotson C.D., Vignes S., Shin Y.K., Ott S.H., Elson A.E.T., Choi H.J., Shaw H., Egan J.M., Mitchell B.D., Li X., Steinle N.I., and Munger S.D. *A TAS2R9 variant is associated with dysglycemia in humans*. Abstract and poster presented at the 15th meeting of the International Symposium on Olfaction and Taste, San Francisco, California (July 2008).

Shin Y.K., Martin B., Golden E., **Dotson C.D.**, Maudsley S., Kim W., Jang H.J., Mattson M.P., Drucker D.J., Egan J.M., and Munger S.D. *Modulation of taste sensitivity by GLP-1 signaling in taste buds*. Abstract and poster presented at the 15th meeting of the International Symposium on Olfaction and Taste, San Francisco, California (July 2008).

Vignes S., **Dotson C.D.**, Shin Y.K., Ott S.H., Elson A.E.T., Choi H.J., Shaw H., Egan J.M., Mitchell B.D., Li X., Steinle N.I., and Munger S.D. *Allelic variation in taste receptors: Impact on taste sensitivity and glucose homeostasis*. Abstract and poster presented at "Structure function relationships of GPCRs in the spotlight" at the La Grande Motte Villagium "Le Ponant," Montpellier, France (June 2008).

Dotson C.D. and Spector A.C. *Taste discriminability of some sugars and L-amino acids by mice*. Abstract and poster presented at the 36th annual meeting of the Society for Neuroscience, Atlanta, Georgia (October 2006).

Dotson C.D. and Spector A.C. *PLC β 2 knock-out mice display lick avoidance to high concentrations of quinine and denatonium*. Abstract and poster presented at the 26th annual meeting of the Association for Chemoreception Sciences, Sarasota, Florida (April 2004).

Dotson C.D., McCoy K.J.M., and Bauer R.M. *Reliable change in daily repeated neurocognitive evaluations*. Abstract and poster presented at the 22nd annual meeting of the National Academy of Neuropsychology, Miami, Florida (October 2002).

Dotson C.D. and Meyer M.E. *The structure of the rat's behavior on the hot plate at differential temperatures*. Abstract and poster presented at the annual meeting of the Southeastern Psychological Association and the Committee on Equality of Professional Opportunity / PSI CHI Undergraduate Poster Session, Savannah, Georgia (March 1999).

PROFESSIONAL PRESENTATIONS

Dotson C.D. *Direct single cell genomic and microchemical analysis of cellular heterogeneity in sensory systems*. Presented at the 36th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2014).

Zolotukhin S., Yegorova S., Moskalenko M., Currilin S.W. and **Dotson C.D.** *Dynamic transcriptional regulation in the peripheral gustatory system as a function of metabolic state*. Presented at the 36th annual meeting of the Association for Chemoreception Sciences, Bonita Springs, FL (April 2014).

Munger S.D., Geraedts M.C.P., Takahashi T., Vignes S., Markwardt M.L., Nkobena A., Cockerham R.E., Hajnal A., **Dotson C.D.**, Rizzo M.A. *Mechanisms of post-ingestive glucose sensing*. Presented at 16th meeting

of the International Symposium on Olfaction and Taste, Stockholm, Sweden (June 2012).

Spector A.C., Treesukosol Y., **Dotson C.D.** and Grobe C.L. *Linking the T1R2+3 taste receptor to the psychophysics of taste quality in the rodent model.* Presented at the 6th International Symposium on Molecular and Neural Mechanisms of Taste and Olfactory Perception, Fukuoka, Japan (December 2008).

Dotson C.D., Elson A.E.T., Shaw H., SHI, X., Damcott C.M., Naj A., Snitker S., Steinle N.I., and Munger S.D. *Taste receptor polymorphisms in the Old Order Amish: associations with obesity and related traits.* Presented at the 15th annual meeting of the Society for the Study of Ingestive Behavior, Steamboat Springs, Colorado (July 2007).

Dotson C.D., Elson A.E.T., Shaw H., SHI X., Damcott C.M., Naj A., Snitker S., Steinle N.I., and Munger S.D. *Taste receptor polymorphisms in the Old Order Amish: associations with obesity, diabetes and related traits.* Presented at the 29th annual meeting of the Association for Chemoreception Sciences, Sarasota, Florida (April 2007).

Dotson C.D. *Receptors, transduction, and taste perception: linking gustatory neurobiology to behavior.* Presented at "Neuro Noons 2005: From Genes to Brain to Nerve to Muscle to Behavior and Back" at the University of Florida, Gainesville, Florida (June 2005).

Dotson C.D. and Spector A.C. *The effects of drinking spout orifice size on licking behavior in inbred mice.* Presented at the 12th annual meeting of the Society for the Study of Ingestive Behavior, Cincinnati, Ohio (July 2004).

Dotson C.D. *Reliable change in repeated neurocognitive evaluations.* Presented at the Annual Graduate Research Symposium of the Department of Clinical and Health Psychology at the University of Florida, Gainesville, Florida (October 2000).

INVITED PRESENTATIONS

Dotson C.D. *Molecular mediators interfacing taste and nutrient responses.* Presented in the Department of Neuroscience at the University of Florida College of Medicine, Gainesville, FL (February 2016).

Dotson C.D. *Molecular mediators interfacing taste and nutrient responses.* Presented at the Integrative Metabolism Program in the Center for Metabolic Origins of Disease at the Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL (February 2016).

Dotson C.D. *Modulation of gustatory functioning by molecular mediators of appetite and satiety.* Presented in the Department of Anatomy and Neurobiology at the University of Tennessee Health Science Center, Memphis, TN (December 2015).

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Dotson C.D. *Modulation of taste responsiveness by the satiation hormone Peptide YY.* Presented at the UF/FSU Joint Chemosensory Meeting and Planning Workshop, Gainesville, Florida (June 2013).

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