**CURRICULUM VITAE**

**Education:**

B.Sc. University of Victoria (Psychology) 1993

M.Sc. McGill University (Neuroscience) 1998

Ph.D. McGill University (Clinical Psychology) 2001

**Career/Academic Appointments:**

05/97 to 08/97 Neuropsychology Intern, Adult and Geriatric Services, Department of Psychology, Douglas Hospital, Montreal, Quebec.

05/97 to 08/97 Psychology Intern Psychogeriatrics Department, Douglas Hospital, Montreal, Quebec.

09/97 to 08/99 Neuropsychology Intern, Montreal Neurological Hospital, Montreal, Quebec.

09/99 to 08/00 Psychology Intern, Montreal General Hospital, Montreal, Quebec.

09/00 to 09/01 Research Assistant Professor, Cognitive Neurology and Alzheimer’s

Disease Center, Northwestern University Feinberg School of Medicine, Chicago, IL

09/01 to 05/04 Assistant Professor, Cognitive Neurology and Alzheimer’s

Disease Center, Northwestern University Feinberg School of Medicine, Chicago, IL

06/01 to 04-08 Assistant Fellow, The John B. Pierce Laboratory, New Haven, CT

01/01 to 05-08 Assistant Professor, Department of Psychology, Yale University, New Haven, CT

06/01 to 06-08 Assistant Professor, Department of Psychiatry, Yale University School of Medicine, New Haven, CT

07/01/08 - 06/31/14 Associate Fellow, The John B. Pierce Laboratory, New Haven CT

07/01/08 - 06/31/14 Associate Professor, Department of Psychiatry, Yale University School of Medicine, New Haven, CT

07/01/08 – 06/31/14 Associate Professor, Department of Psychology, Yale University, New Haven, CT

10/01/13-9/30/15 Visiting Professor, Center for Excellence and Institute of Genetics, University of Cologne, Cologne, Germany

07/01/14-present Fellow, The John B Pierce Laboratory, New Haven, CT

07/01/14- present Professor, Department of Psychiatry, Yale School of Medicine, New Haven, CT

01/01/15-present Deputy Director, The John B Pierce Laboratory, Yale University

01/01/16-present Director, Modern Diet and Physiology Research Center (MDPRC)

06/01/17-present Visiting Professor, Center for Excellence, University of Tubingen, Germany

**Professional Honors or Recognition:**

 **International/National/Regional**

2017: Reappointed to the National Academy of Sciences Board on Behavioral, Cognitive and Sensory Sciences (BBCSS) (3-year term).

2015: Allan Epstein Award for award honors an individual for a specific research discovery that has advanced the understanding of ingestive behavior, Awarded by the Society for the Study of Ingestive Behavior

2014: Elected to the National Academy of Sciences Board on Behavioral, Cognitive and Sensory Sciences (BBCSS) (3-year term)

2013: Top 10 Reviewer for *Biological Psychiatry* in 2012

2011: Opening Keynote Address, The European Society for Cognitive Psychology

2010: Ruth Pike Award for Contributions to Research in Nutrition, Pennsylvania State University, Department of Nutrition

2009: Invitee National Academy of Sciences’ Fifteenth German-American Annual Kavli Frontiers of Science Symposium for Young Investigators

2007: Firmenich Young Investigator Award for Research in Fragrance and Flavors, presented by Firmenich, Geneva Switzerland

2006: Invitee National Academy of Sciences’ Eighteenth Annual Kavli Frontiers of Science Symposium for Young Investigators

2005: Moskowitz-Jacobs Award for Research Excellence in the Psychophysics of Taste and Smell presented by the Association for Chemoreception Sciences

2003: Ajinomoto Young Investigator Award for Research in Gustation presented by the Association for Chemoreception Sciences

2002: Election to the International Neuropsychology Symposium

 **University**

2010: Department of Psychiatry Chairman’s Award for teaching excellence and outstanding service to the department

2001: Honors awarded for dissertation

1997: Jeanne-Timmins Studentship

**Grant/Clinical Trials History:**

**Current Grants**

Agency: NIH/NIDDK

I.D.# R01 DK114169

Title: “Neurocognition in youth with prediabetes”

P.I.: Dana M Small and Sonia Caprio (Co-PI)

Percent Effort: 40%

Direct costs per year: 462,716

Total costs for project period: 3,893,469

Beginning and end dates: 07/01/2017 – 06/3/2022

Agency: NIH/NIDDK

I.D.# R01 DK112317 (DM Small CO-I)

Title: “Neurobehavioral plasticity to regular sugar-sweetened beverage intake”

P.I: Kyle Burger

Percent Effort: 7% years 1-4 and 10% year 5

Direct costs per year: 17,673

Total costs for project period: 84,150

Beginning and end dates: 07/01/2017 – 06/3/2022

Agency: NIH/NIDCD

I.D.# 2R01 6706-07

Title: “Cognitive and affective influences on taste processing”

P.I. Dana M Small

Percent Effort: 53%

Total costs for project period: 4,182,178

Beginning and end dates: 09/01/014 – 08/31/19

**Past Grants**

Agency: NIH/NCI

I.D. 1R01 CA180030

Title: “The gut-brain axis: a novel target for treating behavioral alterations associated with obesity”

P.I.: Dana M Small and Ivan de Araujo (Co-PI)

Percent Effort 30%

Direct costs per year: 465,552

Total costs per project period: 3,297,669

Beginning and end dates: 08/01/13 – 07/31/17

Agency: CTNA

Title: “A therapeutic effect of OEA on impulsivity and negative outcome learning”

P.I: Dana M Small

Percent Effort: 2%

Direct costs per year: 12,000

Total costs for project period: 12,000

Beginning and end dates: 07/01/13-06/31-14

Agency: NIH/NIDDK

I.D.# R01 DK085579

Title: “The role of the amygdala in weight gain susceptibility”

P.I.: Dana M Small and Ivan de Araujo (Co-PI)

Percent Effort 32%

Direct costs per year: 473,933

Total costs for project period: 4,150,731

Beginning and end dates: 04/1/2010 -03/31/2015

Agency: NIH/NIDA

I.D# P50 DA036151

Title: “Does sweet taste potentiate nicotine cue reactivity?”

P.I: Krishnan-Sarin, PI of P50; Dana M Small PI of pilot project

Percent Effort: 10%

Direct costs per year 93,807

Beginning and end dates: 09/01/14 – 09/31/15

Agency: NIAAA

Title: “A therapeutic effect of OEA on impulsivity and negative outcome learning”

P.I: Krystal, PI of P50; Dana M Small PI of pilot project

Percent Effort: 2%

Direct costs per year: 12,000

Total costs for project period: 12,000

Beginning and end dates: 07/12/13-11/31-14

Agency: PEPSI-CO

Title: “Fuel utilization and flavor preference formation”

P.I.: Dana M Small

Percent Effort: 25%

Direct costs per year: 450,000

Total costs for projected period: 450,000

Beginning and end dates: 10/01/12- 12/31/13

Agency: NIH/NIAAA

 I.D. #: P50 (AA012870 (DM Small PI of Pilot Project)

 P.I.: John Krystal

 Title: Human alcohol habits; behavioral and brain mechanisms

 Percent Effort: 1%

Total costs for project: 3,152

 Beginning and end dates: 6/1/12 – 5/31/13

Agency: NIH/NIDCD

I.D.# R01 6706-01

Title: “Cognitive and affective influences on taste processing”

P.I.: Dana M Small

Percent Effort: 22%

Total costs for project period: 1,305,804

Beginning and end dates: 07/01/06 – 04/31/13

Agency: NIH/NIDDK

I.D.# R01 DK080760 (DM Small Co-I)

Title: “Relation of consummatory and anticipatory food reward to obesity”

P.I.: Eric Stice

Percent Effort: 15% years 1-3; consultant 0% 4-5

Total costs for project period: 26,274

Beginning and end dates: 07/01/09 – 06/31/14

Agency: PEPSI-CO

Title: “Fuel utilization and flavor preference formation”

P.I.: Dana M Small

Percent Effort: 25%

Direct costs per year: 450,000

Total costs for projected period: 450,000

Beginning and end dates: 10/01/12- 12/31/13

Agency: NIH/NIAAA

 I.D. #: P50 (AA012870 (DM Small PI of Pilot Project)

 P.I.: John Krystal

 Title: Human alcohol habits; behavioral and brain mechanisms

 Percent Effort: 1%

Total costs for project: 3,152

 Beginning and end dates: 6/1/12 – 5/31/13

Agency: NIH/NIDCD

I.D.# R01 6706-01

Title: “Cognitive and affective influences on taste processing”

P.I.: Dana M Small

Percent Effort: 22%

Total costs for project period: 1,305,804

Beginning and end dates: 07/01/06 – 04/31/13

Agency: NIH/NIDDK

I.D.# R01 DK080760

Title: “Relation of consummatory and anticipatory food reward to obesity”

P.I.: Eric Stice

Role on Project: Co-Investigator

Percent Effort: 15% years 1-3; consultant 0% 4-5

Total costs for project period: 26,274

Beginning and end dates: 07/01/09 – 06/31/14

Agency: PEPSICO

Title: “Sweetness and long-term behavioral attraction: human studies”

P.I.: Dana M Small

Percent Effort: 25% (5% last month)

Total costs for project period: 1,033,536

Beginning and end dates: 06/15/09- 12/31/11 (5% 1/30/12)

Agency: NIH/NIDCR

I.D. #: UL1 DE019586-02 (Pilot Project)

Title: “The influence of acute stress on brain response to ingestion of milkshake”

P.I. Dana M Small

Percent Effort 1%

Total costs for project period: 25,000

Beginning and end dates: 11/01/2008 to 10/31/09

Agency: PEPSICO

Title: “Effects of expectation on food reward”

P.I.: Dana M Small

Percent Effort 2%

Total costs for project period 300,000

Beginning and end dates: 11/01/2007 to 10/31/09

Agency: PEPSICO

Title “Assessing implicit attitudes towards food with affective priming”

P.I.: Dana M Small

Percent Effort 2%

Total costs for projected period: 143,009

Beginning and end dates: 11/01/2007 to 10/31/09

Agency: NIH/NIAAA U54

Project No. and Title: fMRI of Stress & Self-Control & Obesity (#7 of14)

P.I.: Marc Potenza

Role on Project: Co-Investigator

Percent Effort: 5%

Total costs for projected period: 50,498

Beginning and end dates: 09/30/07 – 09/29/12

Agency: NIH/NIDCD

I.D.# R01 DC0050552

Title: “Oral somesthesis and taste”

P.I.: Barry Green

Role on Project: Co-Investigator

Percent Effort: 10%

Total costs for projected period: 2,060,875

Beginning and end dates: 04/01/06 – 03/31/11

Agency: Private Donor through David Kessler, Dean of Medicine, UCSF

Title: “Predicting brain response to food reward with behavioral measures of eating style”

P.I.: Dana M Small

Percent Effort: 15%

Total costs for projected period: 130,000

Beginning and end dates: 05/01/06 – 06/31/08

Agency: NIH/NIDA R03 (ISTART)

I.D.# R03 DA022292

Title: “Interactions between nicotine addiction and food reward”

P.I.: Dana M Small

Percent Effort: 25% in year one, 10% in year 2, 2% year 3

Total costs for projected period: 256,226

Beginning and end dates: 09/01/06 – 08/31/09

Agency: CENTURY Pilot Project Grant P50 AA 15632

Title: “The effect of smoking status on brain and behavioral response to food odor”

P.I.: Dana Small

Percent Effort: 5%

Total costs for projected period: 29,225

Beginning and end dates: 09/01/05 – 08/31/06

Agency: NIH/NIDDK R01 MH064560 Supplement NOT-RM-05-007

Title: “Neural substrates of dieting: A potent risk factor for bulimia nervosa”

Principal Investigator: Eric Stice

Percent Effort: 5%

Total costs for projected period: 183,330

Beginning and end dates: 09/30/05 – 09/29/06

Agency: NIH/NIDCD

I.D.# R03 DC006169

Title: “Neural substrates of taste, smell and flavor in humans”

P.I.: Dana M Small

Percent Effort: 15%

Total costs for projected period: 236,394

Beginning and end dates: 07/01/04 to 06/30/08

Agency: Illinois Department of Public Health Alzheimer’s Disease Research Grant

I.D.# # 43280005

Title: “Neural correlates of the interaction between motivation and visual spatial attention in Alzheimer’s disease, mild cognitive impairment and healthy aging”

P.I.: Dana M Small

Percent Effort: 30%

Total costs for projected period: 69,000

Beginning and end dates: 07/02 to 07/04

Agency: Unilever Research

I.D. #: # PS-2001-0870

Title: “Ortho versus retronasal olfaction: Interaction with taste novelty and pleasantness”

P.I.: Dana M Small

Percent Effort: 30%

Total costs for projected period: 314,942.77

Beginning and end dates: 07/02 to 05/05

Agency: NIH/NIA Pilot Grant

I.D.# # PHS AG13854

Title: “Visual spatial attention in Alzheimer’s disease studied with fMRI”

P.I.: Dana M Small

Percent Effort: 30%

Total costs for projected period: 44,100

Beginning and end dates: 07/01 to 07/02

**Invited Speaking Engagements, Presentations, Symposia & Workshops:**

**International/National**

2017: 10-4-17, Amsterdam, NL “Gut lipid messengers regulate fat but not sugar perception and appetite”, University of Amsterdam Symposium “Fatty Brain”

9-21-17, Chongqing, China “Integration of Mind and Metabolism, Department of Psychology Seminar Series, Southwest University

8-7-17, New York, NY “Integration of Mind and Metabolism” Department of Psychiatry, Eating Disorders Unit Seminar, Columbia University

6-1-17, Washington, DC “Integration of Mind and Metabolism” National Academy of Sciences Board on Behavioral, Cognitive and Sensory Sciences

 6-18-17, Baton Rouge, LA, “Integration of Mind and Metabolism” Pennington Biomedical Research Seminar Series

 6-16-17, Montreal, Quebec, CA “How gut-brain signaling controls behavior and cognition”, University of Montreal, Montreal Diabetes Research Center Seminar

3-8-17, Tubingen, DE “You are what you eat: The gut-brain axis and perception” University of Tubingen Diabetes Center Seminar Series

2016: 10-20-16, NIDDK, MD, USA “Integration of oral sensation and metabolism” Special Lecture, NIDDK

9-23-16, Bordeaux, FR “When a calorie is not a calorie: Unraveling the signals driving sugar reward. NutriBrain School, University of Bordeaux

6-5-16, Yokohama, JP “Using brain-state triggering of taste stimulation to explore gustatory perception in humans” International Symposium on Olfaction and Taste

3-31-16, Bethesda, MD, USA “Diet, adiposity and cognitive dysfunction, National Institutes of Health Alzheimer’s Disease and Related Dementias Summit

2-9-16, Groningen, NL “Integration of oral sensation and metabolism”, University of Groningen Flavor of Neuroscience Symposium

2-1-16, Bloomington, IN, USA “When a calorie is not a calorie: Unraveling the signals of sugar reward”, Indiana University Food Institute Seminar Series

1-23-16, Los Angeles, CA, USA “It must be my metabolism: Metabolic regulation of carbohydrate reward” USC Diabetes and Obesity Research Institute Symposium

2015: 12-11-15, NYC, NY, USA, “Brain-gut interactions and their dysregulation in the modern food environment” Mt. Sinai ICHAN School of Medicine Pharmacology Seminar Series

11-18-15, Tallahassee, FL, USA “Oral Sensory Regulation of Carbohydrate Metabolism and Reward”, Florida State University Neuroscience Seminar Series

10-14-15, NYC, NY, USA, “Neural circuits and neuropsychology of the human brain-gut axis”, Columbia University Diabetes Center Seminar Series

 9-8-15, Leipzig, Germany, “Brain – gut interactions in humans and their disruption in obesity”, 1st Leipzig International Meeting for Interdisciplinary Obesity Research (LIMIOR): ‘The obese brain in society’

 9-25-15, Gothenburg, Sweden, “Deconstructing Flavor”, Plenary Lecture, Pangborn

 7-17-15, Bethesda, MD, USA “Neurocognitive adaptations to the “Western Diet”, NIH Workshop on the Intersection of Metabolism and Cognition

 7-11-15, Denver, CO, USA “TBD” Award Lecture for the Allen Epstein Award, Society for the Study of Ingestive Behavior

 5-2-16, Toronto, ON, Canada, “Effects of the modern food environment on taste, flavor, and feeding”, Opening Keynote Address, Neurometabolism

 4-20-15, Bonita Springs, FL, USA “Acute and prolonged top-down modulation of taste”, Symposium Presentation, Association for the Study of Chemoreception Sciences

3-6-15, Zurich, Switzerland, “Metabolic regulation of carbohydrate reward” University of Zurich, Department of Psychology Seminar Series

3-3-15, St. Moritz, Switzerland, “Dorsal striatal adaptations in obesity and their reversal” Swiss Conference on Ingestive Behavior

1-5-15, Turqs and Caicos, “Effects of the modern food environment on taste, flavor and feeding, 30th Annual Sackler Conference

2014: 12-12-14, Pottsdam, Germany “Effects of the modern food environment on taste, flavor and feeding, German Institute for Nutrition (Dife) Seminar Series

11-7-14, Philadelphia, PA “A primer on the neurobiology and psychology of taste, flavor and feeding” American Philosophical Society.

10-16-14, Singapore “Effects of the modern food environment on taste, flavor and feeding, National University of Singapore Duke Campus Food Science Seminar Series

10-15-14, Singapore “It must be my metabolism: Metabolic control of mind” National University of Singapore Duke campus Neuroscience Seminar Series

10-13-14 Singapore “Flavor” Rector’s Tea, National University of Singapore, Yale campus

9-26-14, Philadelphia, PA “Effects of the modern food environment on taste, flavor and feeding” University of Pennsylvania

9-30-14 London, England “Effects of the modern food environment on taste, flavor and feeding” Royal Society Symposium “Food and Big Data”

7-9-14, Washington, DC “What can imaging technologies tell us about food behaviors?”

Institute of Medicine, Food Forum

5-22-14, Lunteren, Netherlands “It must be my metabolism: Metabolic control of mind”, Endo0Neuro-Psycho Annual Meeting Opening Keynote address

5-15-14, Los Angeles, CA “Creating Flavor Percepts and Preferences” Joint Seminars in Neuroscience, UCLA

5-2-14, Heidelberg, Germany “Nonlinear effects of calories on metabolism and reward”, Translating Diabetes, EMBO/EMBL symposium

4-18-14, Montreal, Quebec “It must be my metabolism: Metabolic control of mind”, McGill University, McGill Centre for the Convergence of Health and Economics

 3-24-14, Philadelphia, PA “The human brain and obesity: Causes and Consequences”. University of Pennsylvania Seminar Series, Psychology

2-28-14, New Brunswick, NJ “It must be my metabolism: Metabolic control of mind” Rutgers University Seminar Series, Animal Biology

2013: 10-11-13, Arlington, Virginia “Brain and Obesity: Beyond Differential Responses”, American Psychosomatic Society Fall Meeting: Diabetes, Obesity and The Brain

9-26-13, Cologne, Germany “A novel gene \* environment interaction”, Max Plank Institute Seminar Series.

9-20-13, Miami, Florida, “Metabolic Control of Mind” Neuroscience Seminar Series.

6-25-13, Montreal, Canada “The Neurobiology of Obesity and its Relevance for Epilepsy”, 30th International Epilepsy Congress.

3-17-13, Banff, Canada, “Metabolic Control of Neural Circuits Underlying Food Reward Learning in Humans”, Keystone Meeting: Neuronal Control of Appetite, Metabolism and Weight

1-9-13, Rusutsu Japan, “Mind vs. Metabolism” Opening Keynote Address for the Mechanisms of Brain and Mind Symposium

2012: 12-6-12 Hollywood, Florida “The role of the insular cortex in flavor preference formation” Panel Presentation, American College of Neuropsychopharmacology 51st Annual Meeting

10-8-12 Tubingen, Germany “Flavor is in the Brain” Opening Keynote Address for the Tubingen Autumn School on Neuroimaging

8-28-12 Copenhagen, Denmak “Flavor is in the Brain” Plenary Lecture at the 3rd Annual Gastrophysics Meeting

8-2-12 Orlando, Florida “Impaired dopamine dependent learning and cognition in obesity”, Symposium Lecture, 120th Annual Convention of the American Psychological Association

7-12-12 Zurich, Switzerland “Human dorsal striatal response is associated with body weight, dopamine signaling and impulsivity”, Symposium Lecture for the 20th Annual Meeting of the Society for the Study of Ingestive Behavior

7-11-12, Zurich, Switzerland “Flavor is in the Brain, Symposium Lecture for the 20th Annual Meeting of the Society for the Study of Ingestive Behavior

7-2-12, Beaune, France “Flavor is in the Brain” Plenary Lecture for the 2nd International Conference of Food Oral Processing – Physics, Physiology, and Psychology of Eating

6-29-12, Wageningen, Netherlands “Flavor is in the Brain” Plenary Lecture for the 11th International Conference on the Applications of Magnetic Resonance in Food 2012”

5-8-12, New York, NY “Flavor and feeding: Myths, mysteries and central mechanisms” Grand Rounds, Department of Psychiatry, Mt. Sinai School of Medicine

4-3-12, Chicago, IL “Associations between adiposity and dopamine-dependent learning processes” Symposium Lecture, 19th Annual Cognitive Neuroscience Meeting

2-22-12, Nashville, TN “Flavor: Myths, mysteries, and central mechanisms”, Kennedy Center, Vanderbilt University

2011: 11-10-11, New York, New York “The flavor modality” Experimental Cuisine Collective, New York University

10-2-11, Utrecht, Netherlands, “Individual factors that influence brain response to flavor and feeding” Working Conference Food and Brain, The National Initiative on Brain and Cognition

9-29-11, San Sebastian, Spain “The flavor modality” Opening Keynote Address for the 17th Annual European Society for Cognitive Psychology

9-22-11, West Lafayette, IN “Neural correlates of flavor nutrient conditioning in humans” The Ingestive Behavior Research Center International Symposium on Flavors and Feeding, Purdue University

7-13-11, Boston, MA “Brain and obesity: causes and consequences” 13th Postgraduate Nutrition Symposium, Harvard Medical School

6-1-11, Princeton, NJ “Evidence for neural adaptations in obesity that parallel those observed in drug addiction” Robert Wood Johnson Foundation

5-5-11, New York, NY “Brain and obesity: causes and consequences” Departmental seminar series in Neurobiology and Behavior at Columbia University

4-11-11, St. Petersburg, FL “Sweet tastes, sweet odors, sweet calories, sweet expectations and sweet nothing” Association for Chemoreception Sciences

2-3-11, Ahmedabad, India “The dynamic interaction between food, brain and body mass index” Symposium for the Advancement of Translational Research

1-28-11, Keystone, CO “Decreased BOLD caudate responses to food are a consequence rather than a cause of obesity” Winter Conference on Brain Research

2010: 12-6-10, Miami Beach, FL “The influence of adiposity, genotype, and phenotype on caudate response to food in humans” Panel presentation for the American College of Neuropsychopharmacology

10-29-10, West Lafayette Indiana “The dynamic relationship between brain and obesity” Department of Nutrition Seminar Series, Purdue University

10-4-10, Montreal, QC, Canada “The neuropsychology of obesity”, The Marilyn Jones-Gotman Symposium, McGill University

5-17-10, Victoria, BC, Canada “The neuropsychology of obesity”, Department of Psychology Special Lecture, University of Victoria

5-7-10, Vancouver, BC, Canada “The role of the amygdala and dorsal striatum in overeating”, Department of Pharmacology, Brain Research Center Seminar Series, University of British Columbia

3-48-10, University Park, PN, “BOLD biomarkers of weight-gain susceptibility” Acceptance Lecture for the Ruth Pike Award (named Lecture), Department of Nutrition, Pennsylvania State University

3-08-10, Purchase, NY “A frank discussion of what you can and cannot do with fMRI with an eye for bioethical issues” PepsiCo

2009: 1-21-09, Chicago, IL “Neural correlates of anticipatory and consummatory food reward in overweight humans: The quest for BOLD biomarkers of weight-gain susceptibility” Society for Neurosciences 2009 Mini Symposium: The Neuroscience of Hedonics in Dietary Disorders

10-2-09, Vienna Austria “Functional MRI: New horizons on imaging the neurophysiology of feeding”, Plenary Symposium Lecture, The 45th Annual meeting of the European Association for the Study of Diabetes

9-09-09, Birmingham, AB “Neuroimaging Food” Visiting Scholar for the University of Alabama ADVANCE program and lecturer for the Psychology Colloquium Series, University of Alabama

6-6-09, New Orleans, LA “Imaging flavor: The quest for BOLD biomarkers of weight-gain susceptibility, Neuroimaging Symposium at the 69th American Diabetes Association annual meeting

6-2-09, Baltimore, MD, “Flavor, food and the quest for BOLD biomarkers of weight-gain susceptibility, Intramural Seminar Series, NIH/NIDA

5-22-09, Princeton, NJ “Flavor and the formation of category-specific processing in olfaction” Seminar Series, Firmenich

4-06-09 Toronto, Ontario “Taste, flavor and feeding in the obesogenic environment” Department of Psychology Spring Seminar Series, University of Toronto

2-04-09, New York, New York “Just one more bite: The neurophysiology of food reward in the “obesogenic environment”, Seminar in Clinical Research, Rockefeller University

2008: 11-04-08, Quebec City, Canada “Teasing apart the effects of body mass, behavior, and genes on neural encoding of food” The 11th Annual International Symposium of the Merck-Frost/CIHR Obesity Research Chair: Obesity in a modern world: When pleasure meets homeostasis. Laval University

11-02-08, Montreal, Canada “Teasing apart the effects of body mass, behavior, and genes on neural encoding of food” Plenary Lecture: Brain to Society Obesity Workshop, McGill University

4-14-08, Bethesda, MD “Individual Differences in the Neurophysiology of Food Reward” NIH Symposium: “Decision making in Eating Behavior: Integrating perspectives from the individual, family, and environment”

4-4-08, Binghamton, NY “Top-down influences on Chemosensory Processing” Psychobiology Workshop Series (Scientific Talk) at the University of Binghamton

4-4-08, Binghamton, NY “Tenure, Motherhood and Sanity: Fact or Fiction” Psychobiology Workshop Series (Autobiographical Talk) at the University of Binghamton

2-22-08, New York, NY, “Top-down influences on Chemosensory Processing” Nature Chemical Biology Symposium at the New York Academy of Sciences

2007: 9-18-07, Geneva, Switzerland, Experience-Dependent Category-Specific Processing in Olfaction, Acceptance Lecture for the Firmenich Young Investigator Award, Firmenich.

9-14-07, Les Diablarets, Switzerland, “Neural Encoding of Food Reward in the Human Brain”, Plenary Lecture, University of Geneva Affective Neuroscience Retreat.

8-21-07, Boston, MA, “Neural substrates of Taste-Odor Integration in Humans” American Chemical Society

8-15-07, Minneapolis, MI, “Neural substrates of Flavor in Humans” Plenary Lecture at the Pangborn Sensory Science Symposium.

5-22-07, San Diego, CA, “Application of Incentive-Sensitization Theory of Addiction to Overeating”, American Psychiatric Association Annual Meeting (Symposium sponsored by NIDA)

5-10-07, New York, NY, “Application of Incentive-Sensitization Theory of Addiction to Overeating”, Columbia University Appetitive Behavior Symposium.

3-12-07, New York, NY, “The Role of Human Orbitofrontal Cortex in Taste and Flavor Processing, New York Academy of Sciences.

2-12-07, Boston, MA, “Amygdaloid and Prefrontal Contributions to Encoding Food Reward in Normal and Abnormal Eating” Boston College, Affective Neuroscience Seminar Series

2006: 12-7-06 Gainesville, FL, “Cortical Gustatory Processing: Sensation and Beyond” University of Florida, Center for Taste and Smell Seminar Series

07-20-06 Naples, FL, “Brain representation of food reward in normal weight humans” Society for the Study of Ingestive Behavior (symposium sponsored by NIDA)

01-21-06 San Francisco CA, “There is no accounting for flavour without having first experienced it” The Fifth International Conference on Neuroesthetics

2005: 10-20-05 Long Beach CA, “Food reward and drug addiction: Similarities and differences”

California Society for Addiction Medicine (symposium sponsored by NIDA)

10-15-05 Utrecht, Utrecht, Netherlands “The fundamental role of experience in brain response to chemosensory stimuli” University of Utrecht Seminar Series

10-12-05 Wageningen, Netherlands “The application of the incentive-sensitization theory of addiction to overeating” The University of Wageningen Seminar Series

10-11-05 Maastricht, Netherlands, “Sensory representation of taste, smell and flavor” University of Maastricht Seminar Series

10-11-05 Maastricht, Netherlands “The application of the incentive-sensitization theory of addiction to overeating”, University of Maastricht Seminar Series

2-18-05 Cambridge, MA “The many facets of food reward and their neural substrates in humans” Harvard’s Social and Affective Neuroscience Series

2004: 11-16-04 Las Vegas, Nevada “The hedonics of taste, smell and oral texture perception” North American Association for the Study of Obesity (Symposium sponsored by NIDA)

9-12-04 Dijon, France “A model of taste-odor integration” European Congress for Research in Olfaction

06-08-04 Budapest, Hungary “The need to feed is food for thought: What taste and smell can teach us about brain function” Organization for Human Brain Mapping

05-02-04 New York, New York “Converging and diverging neurobiological features of feeding and drug-self administration in humans” American Psychiatric Association Annual Meeting (Symposium sponsored by NIDA)

2003: 06-15-03 Hamilton, Ontario “Flavor processing: More or less than the sum of its parts?” Keynote Address for The Fourth International Multisensory Research Forum

07-12-03 Chicago IL, “How do rewards influence brain function?” The Learning Brain Expo

07-12-2003 Chicago IL “Making Sense of our senses” The Learning Brain Expo

01-28-03 Montreal, Quebec “Brain substrates of taste smell and flavor” Montreal Neurological Institute Neuropsychology Seminar Series

01-14-03 Philadelphia, PA, “Neural Substrates of flavor and food Reward” Monell Chemical Senses Institute

2002: 10-9-02 Columbus, Ohio “The neural network underlying flavor perception in humans” Visiting Expert Program of the College of Food, Agricultural and Environmental Sciences, Ohio State University

1-30-02 Evanston, IL “Brain regions underlying anticipatory biasing of visuospatial attention” Grand Rounds Evanston Hospital

2001: 11-15-01 Phoenix, Arizona “Neural correlates of taste and flavor in humans” National Institute of Health, Diabetes and Nutrition Section

04-16-01 Sarasota FL, “Flavor representation in the human brain” Association for Chemoreception Sciences

2000: 07-22-00 Brighten England “The interaction of sensory and limbic processing of taste stimuli” The International Society of Olfaction and Taste and the European Congress on Olfaction,

1999: 06-22-99 Arcachon France “The hedonics of taste and smell”. International Neuropsychology Symposium

1998: 06-13-98 Philadelphia PA “Human Gustatory Processing”. University of Pennsylvania Smell and Taste Center Seminar Series

1995: 07-21-95 Victoria British Columbia “Flavor Processing in the Human: A PET study”. University of Victoria Summer Colloquium Series

**Oral Peer-Reviewed, Presentations, Symposia & Workshops Given at Meetings Not Affiliated With Yale:**

2012: 4-27-12, Huntington Beach, CA “Top-down modulation of taste and flavor”, Symposium Lecture, 34th Annual Meeting for the Association of Chemoreception Sciences

2009: 7-29-09, Portland OR, TaqIA A1 polymorphism associated with attenuated nigrothalamocortical response during food consumption, Symposium, Society for the Study of Ingestive Behavior

4-23-09, Sarasota, Florida “Top-down modulation of human insular taste cortex” Symposium Lecture, Association for Chemoreception Sciences 2009

2004: 06-08-04 Budapest, Hungary “The need to feed is food for thought: What taste and smell can teach us about brain function” Organization for Human Brain Mapping

**Professional Service**

**Peer Review Groups/Grant Study Sections**

2017 Klarman Family Foundation Grant Reviewer

Welcome Trust Grant Reviewer

2017 Yale Center for Clinical Investigations, Scholar Review Panel

2016 Netherlands Organization for Scientific Research (NOW) Reviewer.

2016 Deutsche Forshungsgemeinchaft (DFG) clinical research center grant review and site visit

2016 Welcome Trust Grant Reviewer

2015 Special Emphasis Panel: NIDDK

2014 Welcome Trust Grant Reviewer

2013 Minerva Grant Reviewer, Max Plank Institutes

2013 Yale Center for Clinical Investigations, Scholar Review Panel

2013 Ad hoc Reviewer, NIDDK, DDK-C Study Section

2013 Ad hoc Reviewer, NIDCD, CDRC Study Section

 2013 External Reviewer for Michigan State Pilot Project Grants

 2013 Panelist, Deutsche Forschungsgemeinschaft (DFG), Planned Transregional Collaborative Research Center, Review Panel

 2012 Temporary Member, NIH Clinical Investigations of Diabetes and Obesity Study Section – *invitation declined due to a prior commitment on study section meeting dates.*

 2012 Member Behavioural Sciences Grants Committee, Canadian Institutes of Health Research) *– invitation declined*

 2010-10 Ad hoc Reviewer NIDCD P50 Clinical Center review panel

2010-02 Temporary Member, NIH Clinical Investigations of Diabetes and Obesity Study Section

2009-07 Ad hoc Reviewer, The Obesity Society’s New Investigator Grants Committee

2007-07 Ad hoc Member, NIH/NIMH Special Panel Study Section

2004-02 Ad hoc member, NIH Cognition and Perception Study Section

2002-10 Panelist, National Science Foundation Cognitive Neuroscience Panel

**Journal Service**

Editor/Associate Editor

2015-present Executive Editor, *Appetite* (beginning July 1, 2015)

2015 Guest Editor, Special Issue “Effects of the Modern Food Environment on Brain and Behavior”. *Current Opinion in Behavioral Science*.

2013-2014 Guest Editor, Special Issue, *Physiology and Behavior*

2013-present Reviewing Editor, *Biological Psychiatry*

2012-present Topic Editor, *Molecular Metabolism*

2012-present Editorial Board Member, *Neuroimage: Clinical*

2012 Guest Editor, Special Issue “Food Addiction”, *Biological Psychiatry*

2011-2012 Guest Editor, Special Issue “Neuroimaging the Chemical Senses” *Chemosensory Perception*

2010-present Editorial Board Member, *Flavour*

2009-2010 Reviewing Editor, *Frontiers in Neuroscience*

2008-2010 Contributing Editor, *European Journal of Neuroscience*

2007- present Executive Editor, *Chemosensory Perception*

Reviewer:

*Appetite, American Journal of Clinical Nutrition, Brain, Biobehavioral Reviews, Biological Psychiatry, Cell Metabolism, Cerebral Cortex, Chemical Senses, Chemosensory Perception, Cognitive and Behavioral Neurology, Consciousness and Cognition, Current Biology, European Journal of Neuroscience, Experimental Brain Research, Flavour, Hippocampus, Human Brain Mapping, International Journal of Obesity, Journal of Affective and Behavioral Neuroscience, Journal of Clinical Nutrition, Journal of Experimental Psychology Journal of Neuroscience, Journal of Neuropsychology, Journal of Neuroscience Methods, Molecular Metabolism, Molecular Psychiatry, Nature, Nature Communications, Nature Methods, Nature Neuroscience, , Neuroimage, Neuron, Neuropsychologia, Neuropsychopharmacology Neuroreport, Neuroscience, Neuroscience Letters, Obesity, Physiology and Behavior, PloSOne, Proceedings of the National Academy of Sciences, Psychological Sciences, Psychoneuroendocrinology, Psychopharmacology Science, Social and Affective Neuroscience.*

**Professional Service for Professional Organizations**

***National Institutes of Health***

2015-present Co-Lead Brain-behavior subdomain for the NHLB/NIH Core Measures of Obesity Trials

2015-present Co-Chair, Core Neuropsychological Measures for Obesity and Diabetes Trials Working Group

***National Academy of Sciences***

2014-present Board Member, Board on Behavioral, Cognitive and Sensory Sciences

***Helmholtz Alliance Imaging and Curing Environmental Metabolic Diseases (ICEMED)***

2012-present Scientific Advisory Board Member

***FP7 European Consortium “Nudge-It” to determine the role of the brain in food choice***

2014-present Scientific Advisory Board Member

***Society for the Study of Ingestive Behavior***

2016-present Appointed Overall Program Chair

2013-2016 Appointed Program Committee Chair, Track 2

2011-2013 Appointed Member, Long Range Planning Committee

2011-2015 Elected Board Member

***European Association for the Study of Diabetes Treatment Strategies***

2010-present Editorial Advisory Board Member

***Association for Chemoreception Sciences***

2015 Elected Program Chair, AChemS 2015

2013-2014 Elected Program Chair Elect for AChemS

2012-2014 Elected Membership Chair, Executive Committee

2010-2012 Re-elected Secretary, Executive Committee

2008-2010 Elected Secretary, Executive Committee

2005-2006 Appointed Member, Elections Committee

***Organization for Human Brain Mapping***

2001-2004 Appointed Member, Scientific Advisory Board

***Meeting Planning/Participation***

2015 Symposium Chair, Society for the Study of Ingestive Behavior

2015 Symposium Chair, Association for Chemorecption Sciences

2014 Symposium Chair, Association for Chemorecption Sciences

2013 Symposium Chair, Society for the Study of Ingestive Behavior

2012 Symposium Chair, Society for the Study of Ingestive Behavior

2011 Symposium Chair, Organization for Human Brain Mapping Meeting

2008 Symposium Chair and Organizer, International Symposium on Olfaction and Taste

2004 Chair and Organizer, Organization for Human Brain Mapping Meeting

2003-2005 Appointed Member, Program Committee, Association for Chemoreception Sciences

***Yale University Service***

***Medical School Committees***

2013 Yale Center for Clinical Investigations, Scholar Review Panel

2011-present Mentor YCCI/CTSA Career Oversight Committee

2007-2011 Appointed member, Yale University School of Medicine MD/PhD Admissions Committee,

***JB Pierce Laboratory Service***

2015-present Deputy Director of Research

2013-present Chair, Physiology Search Committee

2013-present Member, Strategic Planning Committee

2007-present Chair, Public Relations Committee,

2005-2006 Chair, Neuroscience Search Committee,

2005 - Member, Long Range Planning Committee

***Pennsylvania State University Service***

2012 to present Faculty Mentor, Pennsylvania State University

***Public Service***

2017 Featured Expert: CNBC, Vox, London Telegraph, The Gaurdian, Reader’s Digest, The New Zealand Herald, Medical Daily, Newsmax, India Times

2016 Speaker and Organizer “Neurogastronomy Day”

2016 Featured Expert: MoFad Museum exhibit on flavor;

2014 Science & Food UCLA 2014 Public Lecture Series “How we taste”

2013 Speaker, Global Health and the Arts, Longwharf Theater, Featured Expert BBC, Feature Expert, Smithsonian Magazine

2013 Featured Expert: BBC

2013 Featured Expert: CBC Nightly News, CBC The National

2013 Speaker and Panelist: Global Health and the Arts, Long Wharf Theater.

2013 Feature Expert, Smithsonian Magazine

2012 Featured Expert, Men’s Health, Psychology Today

2011 Featured Expert, NBC News

2011 Expert Consultant, Obama Administration, The Council on Women and Girls Anti-Obesity Initiative

2009 Featured Expert, ABC News, Nightline, Good Morning America

2008 Featured Expert, CBC Radio 1, The Wall Street Journal

2008 Featured Expert on “The Science of the Senses: Taste”, The Nature of Things with David Suzuki, CBC

2008 Featured Expert for “Consulting the Experts” Scientific American

2005 Featured Expert, NPR “All Things Considered”, Science Times

2005 Featured Expert, “Elle” Magazine

2001 Featured Expert, WGN-TV News, NBC 5 Chicago, CNN, Science and Technology News Network

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**Peer-reviewed original research**

1. **D. M. Small**, M. Jones-Gotman, R. J. Zatorre, M. Petrides, A. C. Evans “A role for the Human right anterior temporal lobe in taste quality recognition.” *Journal of Neuroscience*, 1997, 17(13): 5136-5142.
2. **D. M. Small**, R. J. Zatorre, M. Jones-Gotman, M. Petrides, A. C. Evans, “Flavour processing: More than the sum of Its parts”, *NeuroReport*, 1997, 8: 3913-3917.
3. **D. M. Small**, D.H Zald, M. Jones-Gotman, J. Pardo, R.J. Zatorre, S. Frey, M. Petrides. “Human cortical gustatory areas: A review of functional neuroimaging data” *NeuroReport*, 1999, 10: 7-14.
4. **D. M. Small**, R.J. Zatorre, M. Jones-Gotman, “Deficits in taste intensity estimation following resection of the anterior temporal lobe in humans” *Chemical Senses*, 2001, 26: 425-432.
5. **D. M. Small**, R. J. Zatorre, M. Jones-Gotman. “Increased taste intensity perception following resection of the anterior temporal lobe in humans”, *Brain*, 2001, 124(8): 1566-1575. (cited
6. **D. M. Small**, R. J. Zatorre, A. Dagher, Alan C. Evans, M. Jones-Gotman, “Brain activity related to eating chocolate: From pleasure to aversion”, *Brain*, 2001, 124(10): 1720-1733.
7. **D.M. Small**, D.R. Gitelman, M. D. Gregory, A. C. Nobre, T. Parrish, M-M Mesulam “The posterior cingulate and medial prefrontal cortex mediate the anticipatory allocation of spatial attention” *Neuroimage*, 2003, 18: 633-641.
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9. **D.M. Small**, M. Jones-Gotman, A. Dagher. Feeding induced dopamine release in dorsal striatum correlates with meal pleasantness ratings in healthy human volunteers. *Neuroimage*, 2003, 19: 1709-1715.
10. **D.M. Small**, J. Voss, Y.E. Mak, K. Simmons, T. Parrish, D.R. Gitelman, “Experience-dependent integration of taste and smell in the human brain”, *Journal of Neurophysiology*, 2004, 92: 1892-1903.
11. **D. M. Small**, N. Bernasconi, A. Bernasconi, V. Sziklas, M. Jones-Gotman. “Gustatory Agnosia.” *Neurology*, 2005, 64: 311-317.
12. **D.M. Small**, J. Gerber, Y. E. Mak, T. Hummel “Differential neural responses evoked by orthonasal versus retronasal odorant perception in humans.” *Neuron*, 2005, 47: 593-605.
13. **D.M. Small**, D.R. Gitelman, K. Simmons, S.M. Bloise, T. Parrish, M.-M Mesulam, “Monetary incentives enhance processing in brain regions mediating top-down control of attention”, *Cerebral Cortex*, 2005, 15: 1855-1865.
14. Y.E. Mak, K. B. Simmons, D.R. Gitelman, **D.M. Small** “Taste and olfactory intensity perception changes following left insular stroke. *Behavioral Neuroscience* 2005, 119(6): 1693-1700.
15. T. Hummel, S. Heilman, B. Landis, J. Reden, J. Frasnelli, **D. M. Small** and J. Gerber. “Perceptual differences between chemical stimuli presented through the ortho- or retronasal route. *The Journal of Fragrance and Flavors*, 2006, 21: 42-47.
16. **D.M. Small** and A. Apkarian. “Increased taste intensity perception exhibited by patients with chronic back pain. *Pain* 2006, 120:124-130.
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18. **D. M. Small**, G. Bender, M. G. Veldhuizen, K. Rudenga, D. Nachtigal, J. Felsted “The role of the human orbitofrontal cortex in taste and flavor processing” *Annals of the New York Academy of Sciences* 2007, 1121: 136-151.
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20. Mohanty, D. R. Gitelman, **D. M. Small**, M.-M. Mesulam “The spatial attention network interacts with limbic and monoaminergic systems to modulate motivation-induced attentional shifts. *Cerebral Cortex* 2008, doi: 10.1093/cercor/bhn021.
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22. E. Stice, S. Spoor, C. Bohon, **D. M. Small** “Relation between obesity and blunted striatal response to food is moderated by Taq1A1 DRDE Gene” *Science* 2008, 322: 449-452.
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24. E. Stice, C. Bohon, M. Veldhuizen, **D. M. Small** “Relation of reward from food intake and anticipated food intake to obesity: A functional magnetic resonance imaging study” *Journal of Abnormal Psychology* 2008, 117:924-935.
25. G. Bender, T. Hummel, S. Negoias, **D. M. Small** “Separate signals for orthonasal vs. retronasal perception of food but not nonfood odors” *Behavioral Neuroscience* 2009, 123; 481-489.
26. G. Bender, M. G. Veldhuizen, J. A. Meltzer, D.R., Gitelman, **D. M. Small** “Neural correlates of evaluative compared to passive tasting” *European Journal of Neuroscience* 2009, 30: 327-338.
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35. M.G. Veldhuizen, D. R. Gitelman, **D. M. Small** “An fMRI study of the interactions between the attention and the gustatory networks.” *Chemosensory Perception*, 2012, 5: 117-127.
36. D. W. Tang, L. K. Fellows, **D. M. Small**, A. Dagher “Food and drug cues activate similar brain regions: A meta-analysis of functional MRI studies. *Physiology and Behavior*, 2012, 106(3): 317-324.
37. M. Jastreboff, R. Sinha, C. Lacadie, **D. M. Small**, R. S. Sherwin, M. N. Potenza “Neural correlates of stress- and food-cue induced craving in obesity: Association with insulin levels.” *Diabetes Care,* 2012 36: 394-402
38. M. Bensafi, N. Phillips, C. Rouby, C. Sezille, J. Gerber, **D. M. Small,** T. Hummel “The effect of verbal context on olfactory neural responses” *Human Brain Mapping,* 23 (3) 810-818 2013A.
39. S. Nolan-Poupart, M. G. Veldhuizen, P. Geha, **D. M. Small** “Midbrain response to milkshake correlates with ad libitum milkshake intake in the absence of hunger” *Appetite,* 2013, 60(1): 168-174.
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43. K. Rudenga, **D. M. Small**  “Ventromedial prefrontal cortex response to concentrated sucrose reflects liking rather than sweet quality coding” *Chemical Senses,* 2013, 38(7) 585-594.
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45. P. Geha, I. de Araujo, B. Green, **D. M.** **Small** “Decreased food pleasure and disrupted satiety signals in chronic low back pain. *Pain,* 2014, doi 10.1016/j.pain2013.12.027.
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67. M.G. Veldhuizen, K. Rudenga, **D.M. Small** “The pleasure of taste, flavor and food” Chapter 9 In: Pleasure, Edited by Kent Berridge and Morten Kringelbach, Oxford University Press (2009) 146-168
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76. **D. M. Small**, R. J. Dileone “An introduction to the Special Issue: Food Addiction” *Biological Psychiatry,* 73: 799-801.
77. **D. M. Small** T. S. Lorig “An introduction to the special issue: Neuroimaging the chemical senses” *Chemical Senses, 2012, 5:1*
78. **D. M. Small**, M. Veldhuizen, B. Green “Sensory Neuroscience: Taste responses in olfactory cortex” *Current Biology* 2013, 23:R157-R158.
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81. **D. M. Small** and A. Faurion “Mapping brain activity in response to taste stimulation” in Handbook of Olfaction and Gustation, Third Edition. R. Doty, Ed, Wiley, 2015
82. M. V. Burke **D. M. Small** “Physiological mechanisms by which non-nutritive sweeteners may impact body weight and metabolism. *Physiology and Behavior*, 2015, doi: 10.1016
83. **D. M. Small**, K. A. Pelphrey “Autism spectrum disorder: sniffing out a new biomarker” *Current Biology,* 2015 25(15) R674-6.
84. M. V. Burke and **D. M. Small** “Effects of the modern food environment on striatal function, cognition and the regulation of ingestive behavior” *Current Opinion in Behavioral Science,* 2016 9: 97-105.
85. L.E. Stoeckel, Z. Arvanitakis, S. Gandy, **D. M. Small**, C. R. Kahn, A. Pascual-Leone, A. Pwlyk, R. Sherwin, P Smith, “Complex mechanisms linking neurocognitive dysfunction to insulin resistance and other metabolic dysfunction” *F1000Research* 2016 5: article # 353.
86. S. E. La Fleur, **D. M. Small** “Diet, behavior and brain function: You are what you eat: Effects of the modern food environment on brain and behavior” *Current Opinion in Behavioral Sciences* 2016, 9: 5-8.
87. **D. M. Small** “The role of dopamine in neurocognitive deficits associated with obesity: A neuropsychological perspective”. *Frontiers in Endocrinology,* 2017, 11: 34.
88. X. Sun, S. Luquet**, D.M. Small** “DRD2: Bridging the Genome and Ingestive Behavior” *Trends in Cognitive Sciences*, 2017, 21(5): 372-384.
89. **Case Reports, Technical Notes, Letters**
90. **D. M. Small**. Towards an understanding of the brain substrates of reward in humans. *Neuron*, 2002, 33(5): 668-671.
91. **D. M. Small**. “Crossmodal integration - Insights from the chemical senses” *Trends in Neuroscience*, 2004, 27, 120-124.
92. **D. M. Small** “How does food’s appearance or smell influence the way it tastes?” *Scientific American* 2008, 299:100.
93. S. Murdoch, G. Gorrie, **D. M. Small**, J. J. Bhattacharya “A question of taste” *Neurology,* 2013, 80(13): 1265.