

# Dana M Small

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

9,583  
citations

50170

46  
h-index

38300

95  
g-index

121  
all docs

121  
docs citations

121  
times ranked

7998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissociation of Neural Representation of Intensity and Affective Valuation in Human Gustation. <i>Neuron</i> , 2003, 39, 701-711.	3.8	707
2	Relation of reward from food intake and anticipated food intake to obesity: A functional magnetic resonance imaging study.. <i>Journal of Abnormal Psychology</i> , 2008, 117, 924-935.	2.0	675
3	Odor/taste integration and the perception of flavor. <i>Experimental Brain Research</i> , 2005, 166, 345-357.	0.7	556
4	Feeding-induced dopamine release in dorsal striatum correlates with meal pleasantness ratings in healthy human volunteers. <i>NeuroImage</i> , 2003, 19, 1709-1715.	2.1	522
5	Human cortical gustatory areas. <i>NeuroReport</i> , 1999, 10, 7-13.	0.6	416
6	Differential Neural Responses Evoked by Orthonasal versus Retronasal Odorant Perception in Humans. <i>Neuron</i> , 2005, 47, 593-605.	3.8	385
7	Experience-Dependent Neural Integration of Taste and Smell in the Human Brain. <i>Journal of Neurophysiology</i> , 2004, 92, 1892-1903.	0.9	334
8	Youth at Risk for Obesity Show Greater Activation of Striatal and Somatosensory Regions to Food. <i>Journal of Neuroscience</i> , 2011, 31, 4360-4366.	1.7	298
9	Flavor processing. <i>NeuroReport</i> , 1997, 8, 3913-3917.	0.6	252
10	Taste representation in the human insula. <i>Brain Structure and Function</i> , 2010, 214, 551-561.	1.2	246
11	Flavor is in the brain. <i>Physiology and Behavior</i> , 2012, 107, 540-552.	1.0	239
12	The Spatial Attention Network Interacts with Limbic and Monoaminergic Systems to Modulate Motivation-Induced Attention Shifts. <i>Cerebral Cortex</i> , 2008, 18, 2604-2613.	1.6	232
13	Monetary Incentives Enhance Processing in Brain Regions Mediating Top-down Control of Attention. <i>Cerebral Cortex</i> , 2005, 15, 1855-1865.	1.6	228
14	Supra-Additive Effects of Combining Fat and Carbohydrate on Food Reward. <i>Cell Metabolism</i> , 2018, 28, 33-44.e3.	7.2	180
15	Trying to Detect Taste in a Tasteless Solution: Modulation of Early Gustatory Cortex by Attention to Taste. <i>Chemical Senses</i> , 2007, 32, 569-581.	1.1	167
16	Neural Correlates of Stress- and Food Cue-Induced Food Craving in Obesity. <i>Diabetes Care</i> , 2013, 36, 394-402.	4.3	165
17	Separable Substrates for Anticipatory and Consummatory Food Chemosensation. <i>Neuron</i> , 2008, 57, 786-797.	3.8	161
18	Working memory and reward association learning impairments in obesity. <i>Neuropsychologia</i> , 2014, 65, 146-155.	0.7	158

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19	Rethinking Food Reward. Annual Review of Psychology, 2020, 71, 139-164.	9.9	149
20	A Role for the Right Anterior Temporal Lobe in Taste Quality Recognition. Journal of Neuroscience, 1997, 17, 5136-5142.	1.7	146
21	Central nervous pathways of insulin action in the control of metabolism and food intake. Lancet Diabetes and Endocrinology, the, 2020, 8, 524-534.	5.5	126
22	Decreased caudate response to milkshake is associated with higher body mass index and greater impulsivity. Physiology and Behavior, 2013, 121, 103-111.	1.0	125
23	Basolateral Amygdala Response to Food Cues in the Absence of Hunger Is Associated with Weight Gain Susceptibility. Journal of Neuroscience, 2015, 35, 7964-7976.	1.7	124
24	Processed foods and food reward. Science, 2019, 363, 346-347.	6.0	113
25	Physiological mechanisms by which non-nutritive sweeteners may impact body weight and metabolism. Physiology and Behavior, 2015, 152, 381-388.	1.0	98
26	Taste and olfactory intensity perception changes following left insular stroke.. Behavioral Neuroscience, 2005, 119, 1693-1700.	0.6	93
27	Metabolic Regulation of Brain Response to Food Cues. Current Biology, 2013, 23, 878-883.	1.8	89
28	Fuel not fun: Reinterpreting attenuated brain responses to reward in obesity. Physiology and Behavior, 2016, 162, 37-45.	1.0	84
29	The Role of the Human Orbitofrontal Cortex in Taste and Flavor Processing. Annals of the New York Academy of Sciences, 2007, 1121, 136-151.	1.8	81
30	Short-Term Consumption of Sucralose with, but Not without, Carbohydrate Impairs Neural and Metabolic Sensitivity to Sugar in Humans. Cell Metabolism, 2020, 31, 493-502.e7.	7.2	79
31	Genetically Determined Differences in Brain Response to a Primary Food Reward. Journal of Neuroscience, 2010, 30, 2428-2432.	1.7	78
32	Neural correlates of evaluative compared with passive tasting. European Journal of Neuroscience, 2009, 30, 327-338.	1.2	77
33	Modality-Specific Neural Effects of Selective Attention to Taste and Odor. Chemical Senses, 2011, 36, 747-760.	1.1	76
34	Food Intake Recruits Orosensory and Post-ingestive Dopaminergic Circuits to Affect Eating Desire in Humans. Cell Metabolism, 2019, 29, 695-706.e4.	7.2	69
35	“White Paper” meeting summary and catalyst for future inquiry: “Complex mechanisms linking neurocognitive dysfunction to insulin resistance and other metabolic dysfunction.” F1000Research, 2016, 5, 353.	0.8	69
36	The Anterior Insular Cortex Represents Breaches of Taste Identity Expectation. Journal of Neuroscience, 2011, 31, 14735-14744.	1.7	68

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37	Altered hypothalamic response to food in smokers. <i>American Journal of Clinical Nutrition</i> , 2013, 97, 15-22.	2.2	68
38	Complex mechanisms linking neurocognitive dysfunction to insulin resistance and other metabolic dysfunction. <i>Frontiers in Endocrinology</i> , 2016, 5, 353.	0.8	68
39	Perceptual differences between chemical stimuli presented through the ortho- or retronasal route. <i>Flavour and Fragrance Journal</i> , 2006, 21, 42-47.	1.2	67
40	Integration of Sweet Taste and Metabolism Determines Carbohydrate Reward. <i>Current Biology</i> , 2017, 27, 2476-2485.e6.	1.8	67
41	Reorganization of brain connectivity in obesity. <i>Human Brain Mapping</i> , 2017, 38, 1403-1420.	1.9	65
42	Central Gustatory Processing in Humans. <i>Journal of Neurophysiology</i> , 2006, 63, 191-220.		62
43	The neural signature of satiation is associated with ghrelin response and triglyceride metabolism. <i>Physiology and Behavior</i> , 2014, 136, 63-73.	1.0	59
44	Good practice in food-related neuroimaging. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 491-503.	2.2	56
45	Orosensory and Homeostatic Functions of the Insular Taste Cortex. <i>Chemosensory Perception</i> , 2012, 5, 64-79.	0.7	54
46	Opposing relationships of BMI with BOLD and dopamine D2/3 receptor binding potential in the dorsal striatum. <i>Synapse</i> , 2015, 69, 195-202.	0.6	53
47	Circulating Triglycerides Gate Dopamine-Associated Behaviors through DRD2-Expressing Neurons. <i>Cell Metabolism</i> , 2020, 31, 773-790.e11.	7.2	52
48	Crossmodal integration – insights from the chemical senses. <i>Trends in Neurosciences</i> , 2004, 27, 120-123.	4.2	51
49	Effects of adiposity and metabolic dysfunction on cognition: A review. <i>Physiology and Behavior</i> , 2019, 208, 112578.	1.0	50
50	Midbrain response to milkshake correlates with ad libitum milkshake intake in the absence of hunger. <i>Appetite</i> , 2013, 60, 168-174.	1.8	48
51	Dopamine and diet-induced obesity. <i>Nature Neuroscience</i> , 2019, 22, 1-2.	7.1	48
52	Sleep deprivation alters functioning within the neural network underlying the covert orienting of attention. <i>Brain Research</i> , 2008, 1217, 148-156.	1.1	46
53	Flavor and the Formation of Category-Specific Processing in Olfaction. <i>Chemosensory Perception</i> , 2008, 1, 136-146.	0.7	44
54	The Role of the Parabrachial Nucleus in Taste Processing and Feeding. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 372-377.	1.8	42

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55	Loss of nucleus accumbens low-frequency fluctuations is a signature of chronic pain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10015-10023.	3.3	42
56	DRD2: Bridging the Genome and Ingestive Behavior. Trends in Cognitive Sciences, 2017, 21, 372-384.	4.0	40
57	Interaction between the obesity-risk gene FTO and the dopamine D2 receptor gene ANKK1/TaqIA on insulin sensitivity. Diabetologia, 2016, 59, 2622-2631.	2.9	39
58	Increased taste intensity perception exhibited by patients with chronic back pain. Pain, 2006, 120, 124-130.	2.0	38
59	Separate signals for orthonasal vs. retronasal perception of food but not nonfood odors.. Behavioral Neuroscience, 2009, 123, 481-489.	0.6	38
60	The insular taste cortex contributes to odor quality coding. Frontiers in Human Neuroscience, 2010, 4, .	1.0	38
61	Ventromedial Prefrontal Cortex Response to Concentrated Sucrose Reflects Liking Rather Than Sweet Quality Coding. Chemical Senses, 2013, 38, 585-594.	1.1	37
62	Decreased food pleasure and disrupted satiety signals in chronic low back pain. Pain, 2014, 155, 712-722.	2.0	33
63	Symposium Overview. Annals of the New York Academy of Sciences, 2009, 1170, 343-346.	1.8	31
64	Weighing the evidence: Variance in brain responses to milkshake receipt is predictive of eating behavior. NeuroImage, 2016, 128, 273-283.	2.1	31
65	Perceptual and Brain Response to Odors Is Associated with Body Mass Index and Postprandial Total Ghrelin Reactivity to a Meal. Chemical Senses, 2016, 41, 233-248.	1.1	28
66	Toward an Understanding of the Brain Substrates of Reward in Humans. Neuron, 2002, 33, 668-671.	3.8	26
67	The effect of verbal context on olfactory neural responses. Human Brain Mapping, 2014, 35, 810-818.	1.9	26
68	What Can the Brain Teach Us about Winemaking? An fMRI Study of Alcohol Level Preferences. PLoS ONE, 2015, 10, e0119220.	1.1	26
69	Sweet taste potentiates the reinforcing effects of e-cigarettes. European Neuropsychopharmacology, 2018, 28, 1089-1102.	0.3	26
70	Modulation of the spatial attention network by incentives in healthy aging and mild cognitive impairment. Neuropsychologia, 2008, 46, 2943-2948.	0.7	24
71	Sensory Neuroscience: Taste Responses in Primary Olfactory Cortex. Current Biology, 2013, 23, R157-R159.	1.8	23
72	Accumulating Data to Optimally Predict Obesity Treatment (ADOPT): Recommendations from the Biological Domain. Obesity, 2018, 26, S25-S34.	1.5	23

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73	Identification of an Amygdala-Thalamic Circuit That Acts as a Central Gain Mechanism in Taste Perceptions. <i>Journal of Neuroscience</i> , 2020, 40, 5051-5062.	1.7	23
74	Dopamine Adaptations as a Common Pathway for Neurocognitive Impairment in Diabetes and Obesity: A Neuropsychological Perspective. <i>Frontiers in Neuroscience</i> , 2017, 11, 134.	1.4	21
75	Identification of a brain fingerprint for overweight and obesity. <i>Physiology and Behavior</i> , 2020, 222, 112940.	1.0	21
76	Extreme spicy food cravers displayed increased brain activity in response to pictures of foods containing chili peppers: an fMRI study. <i>Appetite</i> , 2019, 142, 104379.	1.8	19
77	An fMRI Study of the Interactions Between the Attention and the Gustatory Networks. <i>Chemosensory Perception</i> , 2012, 5, 117-127.	0.7	18
78	Dietary lipids as regulators of reward processes: multimodal integration matters. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 693-705.	3.1	17
79	Verbal descriptors influence hypothalamic response to low-calorie drinks. <i>Molecular Metabolism</i> , 2013, 2, 270-280.	3.0	16
80	Fat and Carbohydrate Interact to Potentiate Food Reward in Healthy Weight but Not in Overweight or Obesity. <i>Nutrients</i> , 2021, 13, 1203.	1.7	16
81	No modulation of postprandial metabolism by transcutaneous auricular vagus nerve stimulation: a cross-over study in 15 healthy men. <i>Scientific Reports</i> , 2020, 10, 20466.	1.6	15
82	Effects of the modern food environment on striatal function, cognition and regulation of ingestive behavior. <i>Current Opinion in Behavioral Sciences</i> , 2016, 9, 97-105.	2.0	12
83	Neuroimaging the interaction of mind and metabolism in humans. <i>Molecular Metabolism</i> , 2012, 1, 10-20.	3.0	11
84	Greater perceived ability to form vivid mental images in individuals with high compared to low BMI. <i>Appetite</i> , 2015, 91, 185-189.	1.8	11
85	A Brief Neuropsychological Battery for Measuring Cognitive Functions Associated with Obesity. <i>Obesity</i> , 2019, 27, 1988-1996.	1.5	11
86	Post-traumatic olfactory loss and brain response beyond olfactory cortex. <i>Scientific Reports</i> , 2021, 11, 4043.	1.6	11
87	Fatty acid amide supplementation decreases impulsivity in young adult heavy drinkers. <i>Physiology and Behavior</i> , 2016, 155, 131-140.	1.0	10
88	Tracking smell loss to identify healthcare workers with SARS-CoV-2 infection. <i>PLoS ONE</i> , 2021, 16, e0248025.	1.1	10
89	A Proposed Model of a Flavor Modality. <i>Frontiers in Neuroscience</i> , 2011, , 717-738.	0.0	10
90	The chemical senses. , 2006, , 125-172.		9

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91	Autism Spectrum Disorder: Sniffing Out a New Biomarker. <i>Current Biology</i> , 2015, 25, R674-R676.	1.8	8
92	Chronic pain precedes disrupted eating behavior in low-back pain patients. <i>PLoS ONE</i> , 2022, 17, e0263527.	1.1	8
93	Core Neuropsychological Measures for Obesity and Diabetes Trials: Initial Report. <i>Frontiers in Psychology</i> , 2020, 11, 554127.	1.1	7
94	No evidence for an association between obesity and milkshake liking. <i>International Journal of Obesity</i> , 2020, 44, 1668-1677.	1.6	7
95	A Heteromodal Large-Scale Network for Spatial Attention. , 2005, , 29-34.		7
96	Network organization during probabilistic learning via taste outcomes. <i>Physiology and Behavior</i> , 2020, 223, 112962.	1.0	6
97	Diet, Obesity, and Physical Inactivity. , 2018, , 117-141.		5
98	Development of MacroPics: A novel food picture set to dissociate the effects of carbohydrate and fat on eating behaviors. <i>Appetite</i> , 2021, 159, 105051.	1.8	4
99	Tables of dâ€™™ for detection and localization. <i>Perception &amp; Psychophysics</i> , 1968, 3, 321-323.	2.3	3
100	An Introduction to the Special Issue. <i>Biological Psychiatry</i> , 2013, 73, 799-801.	0.7	3
101	New horizons for future research â€“ Critical issues to consider for maximizing research excellence and impact. <i>Molecular Metabolism</i> , 2018, 14, 53-59.	3.0	3
102	456. Implementing an At-Home Smell Test for Early Assessment of COVID-19 in High-Risk Healthcare Workers. <i>Open Forum Infectious Diseases</i> , 2020, 7, S295-S296.	0.4	2
103	Neuroimaging and modulation in obesity and diabetes research: 10th anniversary meeting. <i>International Journal of Obesity</i> , 2022, 46, 718-725.	1.6	2
104	An Introduction to this Special Issue: Neuroimaging in the Chemical Senses. <i>Chemosensory Perception</i> , 2012, 5, 1-1.	0.7	1
105	Further Evidence that Habitual Consumption of Sucralose with, but Not without, Carbohydrate Alters Glucose Metabolism. <i>Cell Metabolism</i> , 2021, 33, 227-228.	7.2	1
106	The Dopamine Receptor Subtype 2 (DRD2) Regulates the Central Reinforcing Actions of Dietary Lipids in Humans and Rodents. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
107	A question of taste. <i>Neurology</i> , 2013, 80, 1265-1265.	1.5	0
108	Introduction to the 2013 SSIB Special Issue. <i>Physiology and Behavior</i> , 2014, 136, 1-2.	1.0	0

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109	Editorial overview: Diet, behavior and brain function: You are what you eat: Effects of the modern food environment on brain and behavior. <i>Current Opinion in Behavioral Sciences</i> , 2016, 9, v-viii.	2.0	0
110	Micturition Drive is Associated with Decreased Brain Response to Palatable Milkshake in the Human Anterior Insular Cortex. <i>Chemosensory Perception</i> , 2016, 9, 174-181.	0.7	0
111	Neuroendocrinology and brain imaging. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12927.	1.2	0