

# Annette Horstmann

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

4,712  
citations

126907

33  
h-index

110387

64  
g-index

110  
all docs

110  
docs citations

110  
times ranked

7155  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Brain response to food odors is not associated with body mass index and obesity-related metabolic health measures. <i>Appetite</i> , 2022, 168, 105774.   | 3.7 | 10        |
| 2  | Molecular Imaging of Central Dopamine in Obesity: A Qualitative Review across Substrates and Radiotracers. <i>Brain Sciences</i> , 2022, 12, 486.   | 2.3 | 15        |
| 3  | Metabolic Profile and Metabolite Analyses in Extreme Weight Responders to Gastric Bypass Surgery. <i>Metabolites</i> , 2022, 12, 417.   | 2.9 | 5         |
| 4  | Feasibility and utility of amygdala neurofeedback. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 138, 104694.   | 6.1 | 10        |
| 5  | Die wissenschaftliche Evaluierung von zanadio " einer digitalen Gesundheitsanwendung für Menschen mit Adipositas. <i>Diabetologie Und Stoffwechsel</i> , 2022, , .  | 0.0 | 0         |
| 6  | Increased Brain Reward Responsivity to Food-Related Odors in Obesity. <i>Obesity</i> , 2021, 29, 1138-1145.   | 3.0 | 29        |
| 7  | Gut microbiota link dietary fiber intake and short-chain fatty acid metabolism with eating behavior. <i>Translational Psychiatry</i> , 2021, 11, 500.   | 4.8 | 51        |
| 8  | Loss of control over eating: A systematic review of task based research into impulsive and compulsive processes in binge eating. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 129, 330-350.  | 6.1 | 15        |
| 9  | 46 Die wissenschaftliche Evaluierung von zanadio " einem ganzheitlichen, digitalen Behandlungsprogramm für Menschen mit Adipositas. , 2021, 15, .   |     | 0         |
| 10 | Rapid Assessment of Olfactory Sensitivity Using the "Sniffin"™ Sticks". <i>Chemosensory Perception</i> , 2020, 13, 37-44.   | 1.2 | 6         |
| 11 | Liking and left amygdala activity during food versus nonfood processing are modulated by emotional context. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2020, 20, 91-102.   | 2.0 | 11        |
| 12 | Characterizing impulsivity and resting-state functional connectivity in normal-weight binge eaters. <i>International Journal of Eating Disorders</i> , 2020, 53, 478-488.   | 4.0 | 16        |
| 13 | Hemispheric asymmetries in resting-state EEG and fMRI are related to approach and avoidance behaviour, but not to eating behaviour or BMI. <i>Human Brain Mapping</i> , 2020, 41, 1136-1152.  | 3.6 | 14        |
| 14 | Reduced Olfactory Bulb Volume in Obesity and Its Relation to Metabolic Health Status. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 586998.  | 2.0 | 19        |
| 15 | The Aetiology of Olfactory Dysfunction and Its Relationship to Diet Quality. <i>Brain Sciences</i> , 2020, 10, 769.   | 2.3 | 14        |
| 16 | Insulin Resistance Is Associated with Reduced Food Odor Sensitivity across a Wide Range of Body Weights. <i>Nutrients</i> , 2020, 12, 2201.   | 4.1 | 22        |
| 17 | Preliminary evidence for an association between intake of high-fat high-sugar diet, variations in peripheral dopamine precursor availability and dopamine-dependent cognition in humans. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12917. | 2.6 | 20        |
| 18 | Automatic and Controlled Processing: Implications for Eating Behavior. <i>Nutrients</i> , 2020, 12, 1097.   | 4.1 | 17        |

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|----|---|-----|-----------|
| 19 | Reliance on model-based and model-free control in obesity. <i>Scientific Reports</i> , 2020, 10, 22433.   | 3.3 | 6         |
| 20 | Dopamine release, diffusion and uptake: A computational model for synaptic and volume transmission. <i>PLoS Computational Biology</i> , 2020, 16, e1008410.   | 3.2 | 17        |
| 21 | A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults. <i>Scientific Data</i> , 2019, 6, 180308.   | 5.3 | 188       |
| 22 | Lost in Translation? On the Need for Convergence in Animal and Human Studies on the Role of Dopamine in Diet-Induced Obesity. <i>Current Addiction Reports</i> , 2019, 6, 229-257.                            | 3.4 | 11        |
| 23 | Psychometric Evaluation of the German Version of the Dietary Fat and Free Sugar-Short Questionnaire. <i>Obesity Facts</i> , 2019, 12, 518-528.  | 3.4 | 15        |
| 24 | (Epi)genetic regulation of CRTC1 in human eating behaviour and fat distribution. <i>EBioMedicine</i> , 2019, 44, 476-488.   | 6.1 | 12        |
| 25 | Unhealthy yet Avoidable? How Cognitive Bias Modification Alters Behavioral and Brain Responses to Food Cues in Individuals with Obesity. <i>Nutrients</i> , 2019, 11, 874.                                    | 4.1 | 27        |
| 26 | Appetitive Pavlovian-to-Instrumental Transfer in Participants with Normal-Weight and Obesity. <i>Nutrients</i> , 2019, 11, 1037.  | 4.1 | 20        |
| 27 | The impulsive brain: Neural underpinnings of binge eating behavior in normal-weight adults. <i>Appetite</i> , 2019, 136, 33-49.   | 3.7 | 38        |
| 28 | Adipositas, Kognition und Entscheidungsverhalten. , 2019, , 101-113.  |     | 1         |
| 29 | Retraining automatic action tendencies in obesity. <i>Physiology and Behavior</i> , 2018, 192, 50-58.   | 2.1 | 81        |
| 30 | Altered monetary loss processing and reinforcement-based learning in individuals with obesity. <i>Brain Imaging and Behavior</i> , 2018, 12, 1431-1449.   | 2.1 | 31        |
| 31 | Intermittent compared to continuous real-time fMRI neurofeedback boosts control over amygdala activation. <i>NeuroImage</i> , 2018, 166, 198-208.   | 4.2 | 45        |
| 32 | Dorsolateral and medial prefrontal cortex mediate the influence of incidental priming on economic decision making in obesity. <i>Scientific Reports</i> , 2018, 8, 17595.                                     | 3.3 | 19        |
| 33 | Keeping track of promised rewards: Obesity predicts enhanced flexibility when learning from observation. <i>Appetite</i> , 2018, 131, 117-124.  | 3.7 | 19        |
| 34 | It wasn't me; it was my brain – Obesity-associated characteristics of brain circuits governing decision-making. <i>Physiology and Behavior</i> , 2017, 176, 125-133.  | 2.1 | 33        |
| 35 | Cause or consequence? Investigating attention bias and self-regulation skills in children at risk for obesity. <i>Journal of Experimental Child Psychology</i> , 2017, 155, 113-127.                          | 1.4 | 8         |
| 36 | Parasympathetic cardio-regulation during social interactions in individuals with obesity – The influence of negative body image. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 330-347. | 2.0 | 7         |

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|----|---|------|-----------|
| 37 | Failing to learn from negative prediction errors: Obesity is associated with alterations in a fundamental neural learning mechanism. <i>Cortex</i> , 2017, 95, 222-237.   | 2.4  | 42        |
| 38 | Effects of psychological eating behaviour domains on the association between socio-economic status and BMI. <i>Public Health Nutrition</i> , 2017, 20, 2706-2712.   | 2.2  | 17        |
| 39 | The role of dopamine in positive and negative prediction error utilization during incidental learning – Insights from Positron Emission Tomography, Parkinson's disease and Huntington's disease. <i>Cortex</i> , 2017, 90, 149-162.      | 2.4  | 19        |
| 40 | Random Projection for Fast and Efficient Multivariate Correlation Analysis of High-Dimensional Data: A New Approach. <i>Frontiers in Genetics</i> , 2016, 7, 102.   | 2.3  | 5         |
| 41 | General Habit Propensity Relates to the Sensation Seeking Subdomain of Impulsivity But Not Obesity. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 213.  | 2.0  | 17        |
| 42 | Slips of Action and Sequential Decisions: A Cross-Validation Study of Tasks Assessing Habitual and Goal-Directed Action Control. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 234.   | 2.0  | 29        |
| 43 | Differential heart rate responses to social and monetary reinforcement in women with obesity. <i>Psychophysiology</i> , 2016, 53, 868-879.  | 2.4  | 11        |
| 44 | Neural processing of negative emotional stimuli and the influence of age, sex and task-related characteristics. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 773-793.  | 6.1  | 104       |
| 45 | Leptin Substitution in Patients With Lipodystrophy: Neural Correlates for Long-term Success in the Normalization of Eating Behavior. <i>Diabetes</i> , 2016, 65, 2179-2186.   | 0.6  | 28        |
| 46 | Stopping at the sight of food – How gender and obesity impact on response inhibition. <i>Appetite</i> , 2016, 107, 663-676.   | 3.7  | 22        |
| 47 | Functional neuroimaging in obesity and the potential for development of novel treatments. <i>Lancet Diabetes and Endocrinology</i> , 2016, 4, 695-705.  | 11.4 | 36        |
| 48 | Brain regulation of food craving: relationships with weight status and eating behavior. <i>International Journal of Obesity</i> , 2016, 40, 982-989.  | 3.4  | 51        |
| 49 | Higher body mass index in older adults is associated with lower gray matter volume: implications for memory performance. <i>Neurobiology of Aging</i> , 2016, 40, 1-10.   | 3.1  | 84        |
| 50 | Argument for a non-linear relationship between severity of human obesity and dopaminergic tone. <i>Obesity Reviews</i> , 2015, 16, 821-830.   | 6.5  | 89        |
| 51 | Incidental rewarding cues influence economic decisions in people with obesity. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 278.  | 2.0  | 30        |
| 52 | Physical exercise in overweight to obese individuals induces metabolic- and neurotrophic-related structural brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 372.  | 2.0  | 61        |
| 53 | Flexible Adaptive Paradigms for fMRI Using a Novel Software Package – Brain Analysis in Real-Time™ (BART). <i>PLoS ONE</i> , 2015, 10, e0118890.  | 2.5  | 12        |
| 54 | Eating Behaviour in the General Population: An Analysis of the Factor Structure of the German Version of the Three-Factor-Eating-Questionnaire (TFEQ) and Its Association with the Body Mass Index. <i>PLoS ONE</i> , 2015, 10, e0133977. | 2.5  | 69        |

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|----|--|-----|-----------|
| 55 | Comparison of variants of canonical correlation analysis and partial least squares for combined analysis of MRI and genetic data. <i>NeuroImage</i> , 2015, 107, 289-310.  | 4.2 | 54        |
| 56 | Identifying neural correlates of memory and language disturbances in herpes simplex encephalitis: a voxel-based morphometry (VBM) study. <i>Journal of Neurology</i> , 2015, 262, 563-569.                         | 3.6 | 12        |
| 57 | Role of genetic variants in ADIPOQ in human eating behavior. <i>Genes and Nutrition</i> , 2015, 10, 449.   | 2.5 | 32        |
| 58 | Functional network centrality in obesity: A resting-state and task fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 331-338.   | 1.8 | 75        |
| 59 | Slave to habit? Obesity is associated with decreased behavioural sensitivity to reward devaluation. <i>Appetite</i> , 2015, 87, 175-183.   | 3.7 | 99        |
| 60 | Age- and gender-specific norms for the German version of the Three-Factor Eating-Questionnaire (TFEQ). <i>Appetite</i> , 2015, 91, 241-247.  | 3.7 | 31        |
| 61 | Genetic variants in AKR1B10 associate with human eating behavior. <i>BMC Genetics</i> , 2015, 16, 31.  | 2.7 | 7         |
| 62 | Distinctive striatal dopamine signaling after dieting and gastric bypass. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 223-230.   | 7.1 | 12        |
| 63 | Lateral prefrontal model-based signatures are reduced in healthy individuals with high trait impulsivity. <i>Translational Psychiatry</i> , 2015, 5, e659-e659.  | 4.8 | 59        |
| 64 | Is it Worth the Effort? Novel Insights into Obesity-Associated Alterations in Cost-Benefit Decision-Making. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 360.  | 2.0 | 26        |
| 65 | The Brain's Got a Taste for Good Food. , 2015, , 39-56.  |     | 2         |
| 66 | Data from 617 Healthy Participants Performing the Iowa Gambling Task: A "Many Labs" Collaboration. , 2015, 3, .  |     | 15        |
| 67 | Body weight status, eating behavior, sensitivity to reward/punishment, and gender: relationships and interdependencies. <i>Frontiers in Psychology</i> , 2014, 5, 1073.  | 2.1 | 81        |
| 68 | Reward processing in obesity, substance addiction and non-substance addiction. <i>Obesity Reviews</i> , 2014, 15, 853-869.   | 6.5 | 146       |
| 69 | Response inhibition and its relation to multidimensional impulsivity. <i>NeuroImage</i> , 2014, 103, 241-248.  | 4.2 | 103       |
| 70 | Leptin-substitution in patients with congenital lipodystrophy increases connectivity in reward-related brain structures: an fMRI study. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2014, 122, . | 1.2 | 1         |
| 71 | Obesity Associated Cerebral Gray and White Matter Alterations Are Interrelated in the Female Brain. <i>PLoS ONE</i> , 2014, 9, e114206.  | 2.5 | 9         |
| 72 | The brain's role in human obesity. <i>E-Neuroforum</i> , 2013, 19, .   | 0.1 | 1         |

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|----|---|-----|-----------|
| 73 | Exenatide-Induced Reduction in Energy Intake Is Associated With Increase in Hypothalamic Connectivity. <i>Diabetes Care</i> , 2013, 36, 1933-1940.  | 8.6 | 68        |
| 74 | Diagnostic imaging in obesity. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2013, 27, 261-277.  | 4.7 | 35        |
| 75 | Performance of healthy participants on the Iowa Gambling Task.. <i>Psychological Assessment</i> , 2013, 25, 180-193.  | 1.5 | 166       |
| 76 | Brain imaging in the context of food perception and eating. <i>Current Opinion in Lipidology</i> , 2013, 24, 18-24.   | 2.7 | 19        |
| 77 | The role of rs2237781 within <i>GRM8</i> in eating behavior. <i>Brain and Behavior</i> , 2013, 3, 495-502.  | 2.2 | 14        |
| 78 | Dissociating Memory Networks in Early Alzheimer's Disease and Frontotemporal Lobar Degeneration - A Combined Study of Hypometabolism and Atrophy. <i>PLoS ONE</i> , 2013, 8, e55251.  | 2.5 | 59        |
| 79 | Die Rolle des Gehirns bei Adipositas. <i>E-Neuroforum</i> , 2013, 19, 138-146.  | 0.1 | 0         |
| 80 | Common Genetic Variation near MC4R Has a Sex-Specific Impact on Human Brain Structure and Eating Behavior. <i>PLoS ONE</i> , 2013, 8, e74362.   | 2.5 | 41        |
| 81 | Iowa Gambling Task: there is more to consider than long-term outcome. Using a linear equation model to disentangle the impact of outcome and frequency of gains and losses. <i>Frontiers in Neuroscience</i> , 2012, 6, 61. | 2.8 | 49        |
| 82 | Neural correlates of the volitional regulation of the desire for food. <i>International Journal of Obesity</i> , 2012, 36, 648-655.   | 3.4 | 205       |
| 83 | Obesity-Related Differences between Women and Men in Brain Structure and Goal-Directed Behavior. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 58.  | 2.0 | 127       |
| 84 | Combined Evaluation of FDG-PET and MRI Improves Detection and Differentiation of Dementia. <i>PLoS ONE</i> , 2011, 6, e18111.   | 2.5 | 129       |
| 85 | Multivariate information-theoretic measures reveal directed information structure and task relevant changes in fMRI connectivity. <i>Journal of Computational Neuroscience</i> , 2011, 30, 85-107.                          | 1.0 | 165       |
| 86 | Peptide hormones regulating appetite—focus on neuroimaging studies in humans. <i>Diabetes/Metabolism Research and Reviews</i> , 2011, 27, 104-112.  | 4.0 | 56        |
| 87 | Sex-Dependent Influences of Obesity on Cerebral White Matter Investigated by Diffusion-Tensor Imaging. <i>PLoS ONE</i> , 2011, 6, e18544.   | 2.5 | 121       |
| 88 | Focal Retrograde Amnesia: Voxel-Based Morphometry Findings in a Case without MRI Lesions. <i>PLoS ONE</i> , 2011, 6, e26538.  | 2.5 | 15        |
| 89 | Dynamic Properties of Human Brain Structure: Learning-Related Changes in Cortical Areas and Associated Fiber Connections. <i>Journal of Neuroscience</i> , 2010, 30, 11670-11677.   | 3.6 | 442       |
| 90 | Resuscitating the heart but losing the brain. <i>Neurology</i> , 2010, 74, 306-312.   | 1.1 | 74        |

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|----|---|-----|-----------|
| 91 | Eigenvector Centrality Mapping for Analyzing Connectivity Patterns in fMRI Data of the Human Brain. PLoS ONE, 2010, 5, e10232.                                | 2.5 | 406       |
| 92 | Differential effects of global and cerebellar normalization on detection and differentiation of dementia in FDG-PET studies. NeuroImage, 2010, 49, 1490-1495. | 4.2 | 118       |
| 93 | Target selection in eye-hand coordination: Do we reach to where we look or do we look to where we reach?. Experimental Brain Research, 2005, 167, 187-195.    | 1.5 | 49        |