

# Stephanie Kullmann

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

3,576  
citations

136740

32  
h-index

143772

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4513  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Empagliflozin Improves Insulin Sensitivity of the Hypothalamus in Humans With Prediabetes: A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial. <i>Diabetes Care</i> , 2022, 45, 398-406.  | 4.3 | 43        |
| 2  | Neurobiological regulation of eating behavior: Evidence based on non-invasive brain stimulation. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 753-772.  | 2.6 | 8         |
| 3  | Spotlight on the Human Brain: Central Actions of SGLT2 Inhibitors?. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e3080-e3081.  | 1.8 | 2         |
| 4  | Sex differences in central insulin action: Effect of intranasal insulin on neural food cue reactivity in adults with normal weight and overweight. <i>International Journal of Obesity</i> , 2022, 46, 1662-1670.  | 1.6 | 10        |
| 5  | Diabetes type 2 risk gene <i>Dusp8</i> is associated with altered sucrose reward behavior in mice and humans. <i>Brain and Behavior</i> , 2021, 11, e01928.  | 1.0 | 2         |
| 6  | Diminished prefrontal cortex activation in patients with binge eating disorder associates with trait impulsivity and improves after impulsivity-focused treatment based on a randomized controlled IMPULS trial. <i>NeuroImage: Clinical</i> , 2021, 30, 102679. | 1.4 | 24        |
| 7  | Resting-state functional connectivity of the human hypothalamus. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2021, 179, 113-124.  | 1.0 | 6         |
| 8  | Central Insulin Modulates Dopamine Signaling in the Human Striatum. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 2949-2961.  | 1.8 | 24        |
| 9  | Slow deep breathing modulates cardiac vagal activity but does not affect peripheral glucose metabolism in healthy men. <i>Scientific Reports</i> , 2021, 11, 20306.  | 1.6 | 4         |
| 10 | Health, pleasure, and fullness: changing mindset affects brain responses and portion size selection in adults with overweight and obesity. <i>International Journal of Obesity</i> , 2020, 44, 428-437.  | 1.6 | 22        |
| 11 | Insulin Action in the Hypothalamus Increases Second-Phase Insulin Secretion in Humans. <i>Neuroendocrinology</i> , 2020, 110, 929-937.   | 1.2 | 23        |
| 12 | Insulin sensitivity predicts cognitive decline in individuals with prediabetes. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001741.   | 1.2 | 42        |
| 13 | Investigating obesity-associated brain inflammation using quantitative water content mapping. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12907.   | 1.2 | 22        |
| 14 | 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        |
| 15 | The TUDID Study – Background and Design of a Prospective Cohort. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2020, , .   | 0.6 | 0         |
| 16 | Brain insulin sensitivity is linked to adiposity and body fat distribution. <i>Nature Communications</i> , 2020, 11, 1841.   | 5.8 | 81        |
| 17 | Central nervous pathways of insulin action in the control of metabolism and food intake. <i>Lancet Diabetes and Endocrinology</i> , 2020, 8, 524-534.  | 5.5 | 126       |
| 18 | Type 2 diabetes risk gene <i>Dusp8</i> regulates hypothalamic Jnk signaling and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6093-6108.  | 3.9 | 17        |

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|----|--|------|-----------|
| 19 | Neuroendocrinology and brain imaging. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12927.   | 1.2  | 0         |
| 20 | Good practice in food-related neuroimaging. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 491-503.  | 2.2  | 56        |
| 21 | Dusp8 affects hippocampal size and behavior in mice and humans. <i>Scientific Reports</i> , 2019, 9, 19483.  | 1.6  | 5         |
| 22 | Safety of intranasal human insulin: A review. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1563-1577.   | 2.2  | 70        |
| 23 | Eating less or more “ Mindset induced changes in neural correlates of pre-meal planning. <i>Appetite</i> , 2018, 125, 492-501.   | 1.8  | 36        |
| 24 | Dose-Dependent Effects of Intranasal Insulin on Resting-State Brain Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 253-262.  | 1.8  | 47        |
| 25 | Leptin Replacement Reestablishes Brain Insulin Action in the Hypothalamus in Congenital Leptin Deficiency. <i>Diabetes Care</i> , 2018, 41, 907-910.   | 4.3  | 11        |
| 26 | Fat label compared with fat content: gastrointestinal symptoms and brain activity in functional dyspepsia patients and healthy controls. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 127-135.                         | 2.2  | 15        |
| 27 | Hypothalamic and Striatal Insulin Action Suppresses Endogenous Glucose Production and May Stimulate Glucose Uptake During Hyperinsulinemia in Lean but Not in Overweight Men. <i>Diabetes</i> , 2017, 66, 1797-1806.                 | 0.3  | 87        |
| 28 | Hypothalamic insulin responsiveness is associated with pancreatic insulin secretion in humans. <i>Physiology and Behavior</i> , 2017, 176, 134-138.  | 1.0  | 27        |
| 29 | Intranasal insulin enhances brain functional connectivity mediating the relationship between adiposity and subjective feeling of hunger. <i>Scientific Reports</i> , 2017, 7, 1627.  | 1.6  | 63        |
| 30 | Electro/magnetoencephalographic signatures of human brain insulin resistance. <i>Current Opinion in Behavioral Sciences</i> , 2016, 9, 163-168.  | 2.0  | 1         |
| 31 | Interaction between the obesity-risk gene FTO and the dopamine D2 receptor gene ANKK1/TaqIA on insulin sensitivity. <i>Diabetologia</i> , 2016, 59, 2622-2631.   | 2.9  | 39        |
| 32 | Brain Insulin Resistance at the Crossroads of Metabolic and Cognitive Disorders in Humans. <i>Physiological Reviews</i> , 2016, 96, 1169-1209.   | 13.1 | 384       |
| 33 | Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016, 125, 36-44.   | 2.1  | 106       |
| 34 | Dissociation of GLP-1 and insulin association with food processing in the brain: GLP-1 sensitivity despite insulin resistance in obese humans. <i>Molecular Metabolism</i> , 2015, 4, 971-976.                                       | 3.0  | 25        |
| 35 | Response to Comment on Heni et al. Central Insulin Administration Improves Whole-Body Insulin Sensitivity via Hypothalamus and Parasympathetic Outputs in Men. <i>Diabetes</i> 2014;63:4083-4088. <i>Diabetes</i> , 2015, 64, e8-e9. | 0.3  | 7         |
| 36 | Compromised white matter integrity in obesity. <i>Obesity Reviews</i> , 2015, 16, 273-281.   | 3.1  | 138       |

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|----|--|-----|-----------|
| 37 | Selective Insulin Resistance in Homeostatic and Cognitive Control Brain Areas in Overweight and Obese Adults. <i>Diabetes Care</i> , 2015, 38, 1044-1050.  | 4.3 | 126       |
| 38 | Impaired insulin action in the human brain: causes and metabolic consequences. <i>Nature Reviews Endocrinology</i> , 2015, 11, 701-711.  | 4.3 | 204       |
| 39 | Central Insulin Administration Improves Whole-Body Insulin Sensitivity via Hypothalamus and Parasympathetic Outputs in Men. <i>Diabetes</i> , 2014, 63, 4083-4088.   | 0.3 | 135       |
| 40 | Reduced cortical thickness associated with visceral fat and BMI. <i>NeuroImage: Clinical</i> , 2014, 6, 307-311.   | 1.4 | 96        |
| 41 | Differential effect of glucose ingestion on the neural processing of food stimuli in lean and overweight adults. <i>Human Brain Mapping</i> , 2014, 35, 918-928.   | 1.9 | 69        |
| 42 | Impaired inhibitory control in anorexia nervosa elicited by physical activity stimuli. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 917-923.  | 1.5 | 53        |
| 43 | Resting-state functional connectivity of the human hypothalamus. <i>Human Brain Mapping</i> , 2014, 35, 6088-6096.   | 1.9 | 104       |
| 44 | Aberrant network integrity of the inferior frontal cortex in women with anorexia nervosa. <i>NeuroImage: Clinical</i> , 2014, 4, 615-622.  | 1.4 | 46        |
| 45 | Variation in the obesity risk gene FTO determines the postprandial cerebral processing of food stimuli in the prefrontal cortex. <i>Molecular Metabolism</i> , 2014, 3, 109-113.   | 3.0 | 44        |
| 46 | Intranasal Insulin Modulates Intrinsic Reward and Prefrontal Circuitry of the Human Brain in Lean Women. <i>Neuroendocrinology</i> , 2013, 97, 176-182.  | 1.2 | 93        |
| 47 | Understanding the reward system functioning in anorexia nervosa: Crucial role of physical activity. <i>Biological Psychology</i> , 2013, 94, 575-581.  | 1.1 | 51        |
| 48 | Comment on: Teeuwisse et al. Short-Term Caloric Restriction Normalizes Hypothalamic Neuronal Responsiveness to Glucose Ingestion in Patients With Type 2 Diabetes. <i>Diabetes</i> 2012;61:3255-3259. <i>Diabetes</i> , 2013, 62, e5-e5. | 0.3 | 2         |
| 49 | Olive oil aroma extract modulates cerebral blood flow in gustatory brain areas in humans. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 1360-1366.   | 2.2 | 13        |
| 50 | Functional Network Connectivity Underlying Food Processing: Disturbed Salience and Visual Processing in Overweight and Obese Adults. <i>Cerebral Cortex</i> , 2013, 23, 1247-1256.   | 1.6 | 95        |
| 51 | Food related processes in the insular cortex. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 499.   | 1.0 | 138       |
| 52 | Fat intake modulates cerebral blood flow in homeostatic and gustatory brain areas in humans. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 1342-1349.  | 2.2 | 40        |
| 53 | Monounsaturated Fatty Acids Prevent the Aversive Effects of Obesity on Locomotion, Brain Activity, and Sleep Behavior. <i>Diabetes</i> , 2012, 61, 1669-1679.  | 0.3 | 48        |
| 54 | Neuronal correlates of reduced memory performance in overweight subjects. <i>NeuroImage</i> , 2012, 60, 362-369.   | 2.1 | 44        |

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|----|---|-----|-----------|
| 55 | The obese brain: Association of body mass index and insulin sensitivity with resting state network functional connectivity. <i>Human Brain Mapping</i> , 2012, 33, 1052-1061. | 1.9 | 245       |
| 56 | Effects of Aversive Stimuli on Prospective Memory. An Event-Related fMRI Study. <i>PLoS ONE</i> , 2011, 6, e26290.  | 1.1 | 16        |
| 57 | Processing of food pictures: Influence of hunger, gender and calorie content. <i>Brain Research</i> , 2010, 1350, 159-166.  | 1.1 | 249       |
| 58 | Insulin Modulation of Magnetoencephalographic Resting State Dynamics in Lean and Obese Subjects. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 157.                     | 1.2 | 37        |
| 59 | Responses of Rat Trigeminal Ganglion Neurons to Longitudinal Whisker Stimulation. <i>Journal of Neurophysiology</i> , 2008, 100, 1879-1884.                                   | 0.9 | 40        |