## High fat diet increases hippocampal oxidative stress an implications for decreased Nrf2 signaling

Journal of Neurochemistry 114, 1581-1589 DOI: 10.1111/j.1471-4159.2010.06865.x

**Citation Report** 

#	Article	IF	CITATIONS
1	Neurodegeneration in an animal model of Parkinson's disease is exacerbated by a high-fat diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1082-R1090.	0.9	125
2	Diabetic Downregulation of Nrf2 Activity via ERK Contributes to Oxidative Stress–Induced Insulin Resistance in Cardiac Cells In Vitro and In Vivo. Diabetes, 2011, 60, 625-633.	0.3	331
3	Breakfast and Adult and Child Behaviors. , 2011, , 67-84.		0
4	Dietâ€induced elevations in serum cholesterol are associated with alterations in hippocampal lipid metabolism and increased oxidative stress. Journal of Neurochemistry, 2011, 118, 611-615.	2.1	84
5	Cognitive impairment in humanized APP×PS1 mice is linked to Aβ1–42 and NOX activation. Neurobiology of Disease, 2011, 44, 317-326.	2.1	81
6	Insulin resistance impairs nigrostriatal dopamine function. Experimental Neurology, 2011, 231, 171-180.	2.0	124
7	Aging is associated with hypoxia and oxidative stress in adipose tissue: implications for adipose function. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E599-E607.	1.8	63
8	Influence of aging on membrane permeability transition in brain mitochondria. Journal of Bioenergetics and Biomembranes, 2011, 43, 3-10.	1.0	62
9	Modulation of Nrf2/ARE Pathway by Food Polyphenols: A Nutritional Neuroprotective Strategy for Cognitive and Neurodegenerative Disorders. Molecular Neurobiology, 2011, 44, 192-201.	1.9	325
10	Relationships between Brain Structure and Metabolic Changes in Schizophrenia Patients Treated with Olanzapine: A Voxel-Based Morphometric Study. Schizophrenia Research and Treatment, 2011, 2011, 1-7.	0.7	5
11	Adaptive induction of NF-E2-related factor-2-driven antioxidant genes in endothelial cells in response to hyperglycemia. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1133-H1140.	1.5	138
12	Liver-Specific Knockdown of IGF-1 Decreases Vascular Oxidative Stress Resistance by Impairing the Nrf2-Dependent Antioxidant Response: A Novel Model of Vascular Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 313-329.	1.7	140
13	Role of nuclear factor (erythroid-derived 2)-like 2 in metabolic homeostasis and insulin action: A novel opportunity for diabetes treatment?. World Journal of Diabetes, 2012, 3, 19.	1.3	38
14	Recruiting adaptive cellular stress responses for successful brain ageing. Nature Reviews Neuroscience, 2012, 13, 209-216.	4.9	153
15	Leptin-induced downregulation of the rat hippocampal somatostatinergic system may potentiate its anorexigenic effects. Neurochemistry International, 2012, 61, 1385-1396.	1.9	14
16	Association between dietary behaviors and attention-deficit/hyperactivity disorder and learning disabilities in school-aged children. Psychiatry Research, 2012, 198, 468-476.	1.7	41
17	Disruption of Nrf2/ARE signaling impairs antioxidant mechanisms and promotes cell degradation pathways in aged skeletal muscle. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1038-1050.	1.8	123
18	The Emerging Role of IGF-1 Deficiency in Cardiovascular Aging: Recent Advances. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 599-610.	1.7	125

#	Article	IF	CITATIONS
19	High-Fat Diets Impair Spatial Learning of Mice in the Y-Maze Paradigm: Ameliorative Potential of α-Lipoic Acid. Journal of Medicinal Food, 2012, 15, 713-717.	0.8	19
20	Vascular Changes in Rat Hippocampus following a High Saturated Fat and Cholesterol Diet. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 643-653.	2.4	107
21	Thyroid hormone's role in regulating brain glucose metabolism and potentially modulating hippocampal cognitive processes. Metabolic Brain Disease, 2012, 27, 101-111.	1.4	21
22	Acute exercise stress activates Nrf2/ARE signaling and promotes antioxidant mechanisms in the myocardium. Free Radical Biology and Medicine, 2012, 52, 366-376.	1.3	252
23	High-fat diet exacerbates MPTP-induced dopaminergic degeneration in mice. Neurobiology of Disease, 2012, 45, 529-538.	2.1	78
24	Ghrelin, neuropeptide Y, and other feeding-regulatory peptides active in the hippocampus: role in learning and memory. Nutrition Reviews, 2013, 71, 541-561.	2.6	64
25	The longer-term impacts of Western diet on human cognition and the brain. Appetite, 2013, 63, 119-128.	1.8	249
26	Obesity increases cerebrocortical reactive oxygen species and impairs brainfunction. Free Radical Biology and Medicine, 2013, 56, 226-233.	1.3	78
27	Aging Exacerbates Obesity-Induced Oxidative Stress and Inflammation in Perivascular Adipose Tissue in Mice: A Paracrine Mechanism Contributing to Vascular Redox Dysregulation and Inflammation. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 780-792.	1.7	113
28	Resveratrol protects against polychlorinated biphenyl-mediated impairment of glucose homeostasis in adipocytes. Journal of Nutritional Biochemistry, 2013, 24, 2168-2174.	1.9	42
29	Neuroinflammation and neurodegeneration in overnutrition-induced diseases. Trends in Endocrinology and Metabolism, 2013, 24, 40-47.	3.1	217
30	Effects of High-Fat Diet on Neuronal Damage, Gliosis, Inflammatory Process and Oxidative Stress in the Hippocampus Induced by Transient Cerebral Ischemia. Neurochemical Research, 2014, 39, 2465-2478.	1.6	25
31	Attenuated dopaminergic tone in the paraventricular nucleus contributing to sympathoexcitation in rats with Type 2 diabetes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R138-R148.	0.9	15
32	Palmitic Acid-Induced Neuron Cell Cycle G2/M Arrest and Endoplasmic Reticular Stress through Protein Palmitoylation in SH-SY5Y Human Neuroblastoma Cells. International Journal of Molecular Sciences, 2014, 15, 20876-20899.	1.8	38
33	Molecular targets of the multifunctional ironâ€chelating drug, <scp>M</scp> 30, in the brains of mouse models of type 2 diabetes mellitus. British Journal of Pharmacology, 2014, 171, 5636-5649.	2.7	9
34	Damaging effects of a high-fat diet to the brain and cognition: A review of proposed mechanisms. Nutritional Neuroscience, 2014, 17, 241-251.	1.5	243
35	Fatty Acids and the Hippocampus. , 2014, , 429-445.		0
36	Gamma-aminobutyric acid improves oxidative stress and function of the thyroid in high-fat diet fed mice. Journal of Functional Foods, 2014, 8, 76-86.	1.6	41

#	Article	IF	CITATIONS
37	Obesity and neuroinflammation: A pathway to cognitive impairment. Brain, Behavior, and Immunity, 2014, 42, 10-21.	2.0	561
38	Short exposure to a diet rich in both fat and sugar or sugar alone impairs place, but not object recognition memory in rats. Brain, Behavior, and Immunity, 2014, 37, 134-141.	2.0	191
39	Obesity in Aging Exacerbates Blood-Brain Barrier Disruption, Neuroinflammation, and Oxidative Stress in the Mouse Hippocampus: Effects on Expression of Genes Involved in Beta-Amyloid Generation and Alzheimer's Disease. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1212-1226.	1.7	250
40	NRF2-regulation in brain health and disease: Implication of cerebral inflammation. Neuropharmacology, 2014, 79, 298-306.	2.0	311
41	Oxidative stress, redox signalling and endothelial dysfunction in ageingâ€related neurodegenerative diseases: a role of <scp>NADPH</scp> oxidase 2. British Journal of Clinical Pharmacology, 2014, 78, 441-453.	1.1	85
42	Salvianolic acid B counteracts cognitive decline triggered by oxidative stress in mice fed with high-fat diets. Journal of Functional Foods, 2014, 11, 278-292.	1.6	16
43	Protein carbonylation associated to high-fat, high-sucrose diet and its metabolic effects. Journal of Nutritional Biochemistry, 2014, 25, 1243-1253.	1.9	33
44	Aging Exacerbates Obesity-induced Cerebromicrovascular Rarefaction, Neurovascular Uncoupling, and Cognitive Decline in Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1339-1352.	1.7	146
45	Blueberry Supplementation Improves Memory in Middle-Aged Mice Fed a High-Fat Diet. Journal of Agricultural and Food Chemistry, 2014, 62, 3972-3978.	2.4	50
46	High Fat Diet Exacerbates Neuroinflammation in an Animal Model of Multiple Sclerosis by Activation of the Renin Angiotensin System. Journal of NeuroImmune Pharmacology, 2014, 9, 209-217.	2.1	84
47	High fat diet produces brain insulin resistance, synaptodendritic abnormalities and altered behavior in mice. Neurobiology of Disease, 2014, 67, 79-87.	2.1	246
48	Intermittent cold-induced hippocampal oxidative stress is associated with changes in the plasma lipid composition and is modifiable by vitamins C and E in old rats. Neurochemistry International, 2014, 74, 46-52.	1.9	10
49	Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebromicrovascular endothelial function and downregulation of NADPH oxidase. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H299-H308.	1.5	158
50	Oxidative & nitrosative stress in depression: Why so much stress?. Neuroscience and Biobehavioral Reviews, 2014, 45, 46-62.	2.9	324
51	Association between perinatal methylation of the neuronal differentiation regulator <i>HES1</i> and later childhood neurocognitive function and behaviour. International Journal of Epidemiology, 2015, 44, 1263-1276.	0.9	37
52	Extensive alterations of the whole-blood transcriptome are associated with body mass index: results of an mRNA profiling study involving two large population-based cohorts. BMC Medical Genomics, 2015, 8, 65.	0.7	40
53	Spatial Cognition in Adult and Aged Mice Exposed to High-Fat Diet. PLoS ONE, 2015, 10, e0140034.	1.1	59
54	Differential Telomere Shortening in Blood versus Arteries in an Animal Model of Type 2 Diabetes. Journal of Diabetes Research, 2015, 2015, 1-9.	1.0	5

#	Article	IF	CITATIONS
55	Ceramides in Alzheimer's Disease: Key Mediators of Neuronal Apoptosis Induced by Oxidative Stress and A <b><i>β</i></b> Accumulation. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-17.	1.9	167
56	Models and mechanisms of vascular dementia. Experimental Neurology, 2015, 272, 97-108.	2.0	225
57	Western diet is associated with a smaller hippocampus: a longitudinal investigation. BMC Medicine, 2015, 13, 215.	2.3	188
58	Obesity-induced oxidative stress, accelerated functional decline with age and increased mortality in mice. Archives of Biochemistry and Biophysics, 2015, 576, 39-48.	1.4	48
59	Bardoxolone methyl prevents high-fat diet-induced alterations in prefrontal cortex signalling molecules involved in recognition memory. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 59, 68-75.	2.5	50
60	Sitagliptin, a dipeptidyl peptidaseâ€4 inhibitor, improves recognition memory, oxidative stress and hippocampal neurogenesis and upregulates key genes involved in cognitive decline. Diabetes, Obesity and Metabolism, 2015, 17, 403-413.	2.2	116
61	Co-morbidity and systemic inflammation as drivers of cognitive decline: new experimental models adopting a broader paradigm in dementia research. Alzheimer's Research and Therapy, 2015, 7, 33.	3.0	150
62	Hippocampal insulin resistance and cognitive dysfunction. Nature Reviews Neuroscience, 2015, 16, 660-671.	4.9	396
63	A systematic review of longer-term dietary interventions on human cognitive function: Emerging patterns and future directions. Appetite, 2015, 95, 554-570.	1.8	24
64	Hippocampal signaling pathways are involved in stress-induced impairment of memory formation in rats. Brain Research, 2015, 1625, 54-63.	1.1	15
65	Associations of Adiposity and Aerobic Fitness with Executive Function andÂMath Performance in Danish Adolescents. Journal of Pediatrics, 2015, 167, 810-815.	0.9	67
66	Association between waist circumference and gray matter volume in 2344 individuals from two adult community-based samples. NeuroImage, 2015, 122, 149-157.	2.1	90
67	Beyond Diabetes: Does Obesity-Induced Oxidative Stress Drive the Aging Process?. Antioxidants, 2016, 5, 24.	2.2	35
68	Identification of Potential Key IncRNAs and Genes Associated with Aging Based on Microarray Data of Adipocytes from Mice. BioMed Research International, 2016, 2016, 1-11.	0.9	1
69	Obesity Reduces Cognitive and Motor Functions across the Lifespan. Neural Plasticity, 2016, 2016, 1-13.	1.0	122
70	Agavins Increase Neurotrophic Factors and Decrease Oxidative Stress in the Brains of High-Fat Diet-Induced Obese Mice. Molecules, 2016, 21, 998.	1.7	34
71	Mixture of Peanut Skin Extract and Fish Oil Improves Memory in Mice via Modulation of Anti-Oxidative Stress and Regulation of BDNF/ERK/CREB Signaling Pathways. Nutrients, 2016, 8, 256.	1.7	22
72	Dietary Phytochemicals in Neuroimmunoaging: A New Therapeutic Possibility for Humans?. Frontiers in Pharmacology, 2016, 7, 364.	1.6	59

#	Article	IF	CITATIONS
73	Ameliorative effects of <b>α</b> -lipoic acid on high-fat diet-induced oxidative stress and glucose uptake impairment of T cells. Free Radical Research, 2016, 50, 1106-1115.	1.5	7
74	Behavioural effects of high fat diet in a mutant mouse model for the schizophrenia risk gene <i>neuregulin 1</i> . Genes, Brain and Behavior, 2016, 15, 295-304.	1.1	7
75	Melatonin alleviates hyperthyroidism induced oxidative stress and neuronal cell death in hippocampus of aged female golden hamster, Mesocricetus auratus. Experimental Gerontology, 2016, 82, 125-130.	1.2	15
76	Mitochondrial ferritin protects the murine myocardium from acute exhaustive exercise injury. Cell Death and Disease, 2016, 7, e2475-e2475.	2.7	24
77	Long-term Autophagy and Nrf2 Signaling in the Hippocampi of Developing Mice after Carbon Ion Exposure. Scientific Reports, 2016, 5, 18636.	1.6	5
78	A high-fat high-sugar diet predicts poorer hippocampal-related memory and a reduced ability to suppress wanting under satiety Journal of Experimental Psychology Animal Learning and Cognition, 2016, 42, 415-428.	0.3	42
79	Memory and hippocampal architecture following short-term midazolam in western diet-treated rats. Neuroscience Letters, 2016, 621, 68-74.	1.0	4
80	Pharmacological Strategies to Retard Cardiovascular Aging. Circulation Research, 2016, 118, 1626-1642.	2.0	64
81	Restricting feeding to the active phase in middle-aged mice attenuates adverse metabolic effects of a high-fat diet. Physiology and Behavior, 2016, 167, 1-9.	1.0	58
82	Prevention of Oxidative Stress by Omega-3 Fatty Acids in the Brain. , 2016, , 239-249.		3
83	Detrimental effects of a high fat/high cholesterol diet on memory and hippocampal markers in aged rats. Behavioural Brain Research, 2016, 312, 294-304.	1.2	70
84	Vascular cognitive impairment: Modeling a critical neurologic disease in vitro and in vivo. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 975-982.	1.8	43
85	Forestalling Age-Related Brain Disorders. , 2016, , 299-309.		0
86	Mitochondrial dysfunction and cell death in neurodegenerative diseases through nitroxidative stress. Brain Research, 2016, 1637, 34-55.	1.1	121
87	Thidoredxin-2 overexpression fails to rescue chronic high calorie diet induced hippocampal dysfunction. Experimental Neurology, 2016, 275, 126-132.	2.0	3
88	High fat diet-induced diabetes in mice exacerbates cognitive deficit due to chronic hypoperfusion. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1257-1270.	2.4	69
89	Testosterone deprivation has neither additive nor synergistic effects with obesity on the cognitive impairment in orchiectomized and/or obese male rats. Metabolism: Clinical and Experimental, 2016, 65, 54-67.	1.5	56
90	Butyrate restores HFD-induced adaptations in brain function and metabolism in mid-adult obese mice. International Journal of Obesity, 2017, 41, 935-944.	1.6	78

#	Article	IF	CITATIONS
91	Nutritional Psychiatry: Where to Next?. EBioMedicine, 2017, 17, 24-29.	2.7	159
92	Hippocampal insulin resistance and altered food decision-making as players on obesity risk. Neuroscience and Biobehavioral Reviews, 2017, 77, 165-176.	2.9	14
93	Effect of high-fat diet on cognitive impairment in triple-transgenic mice model of Alzheimer's disease. Biochemical and Biophysical Research Communications, 2017, 493, 731-736.	1.0	102
94	Mitigating the effects of high fat diet on the brain and behavior with berry supplementation. Food and Function, 2017, 8, 3869-3878.	2.1	11
95	A short term high-fat high-sucrose diet in mice impairs optic nerve recovery after injury and this is not reversed by exercise. Experimental Eye Research, 2017, 162, 104-109.	1.2	10
96	Research advances in metabolism 2016. Metabolism: Clinical and Experimental, 2017, 67, 41-53.	1.5	0
97	Thymol improves high-fat diet-induced cognitive deficits in mice via ameliorating brain insulin resistance and upregulating NRF2/HO-1 pathway. Metabolic Brain Disease, 2017, 32, 385-393.	1.4	55
98	Relationship Between Obesity, Alzheimer's Disease, and Parkinson's Disease: an Astrocentric View. Molecular Neurobiology, 2017, 54, 7096-7115.	1.9	50
99	Agmatine ameliorates type 2 diabetes induced-Alzheimer's disease-like alterations in high-fat diet-fed mice via reactivation of blunted insulin signalling. Neuropharmacology, 2017, 113, 467-479.	2.0	69
100	The impact of cerebrovascular aging on vascular cognitive impairment and dementia. Ageing Research Reviews, 2017, 34, 15-29.	5.0	139
101	Association between serum neuron-specific enolase, age, overweight, and structural MRI patterns in 901 subjects. Translational Psychiatry, 2017, 7, 1272.	2.4	9
102	Alzheimer's Disease and NQO1: Is there a Link?. Current Alzheimer Research, 2017, 15, 56-66.	0.7	35
103	A four-day Western-style dietary intervention causes reductions in hippocampal-dependent learning and memory and interoceptive sensitivity. PLoS ONE, 2017, 12, e0172645.	1.1	87
104	Oxidative stress induced by Se-deficient high-energy diet implicates neutrophil dysfunction via Nrf2 pathway suppression in swine. Oncotarget, 2017, 8, 13428-13439.	0.8	28
105	Brain-derived neurotropic factor (BDNF) heterozygous mice are more susceptible to synaptic protein loss in cerebral cortex during high fat diet. Archives of Physiology and Biochemistry, 2018, 124, 442-447.	1.0	10
106	Long term Westernized diet leads to region-specific changes in brain signaling mechanisms. Neuroscience Letters, 2018, 676, 85-91.	1.0	14
107	Up-regulation of HO-1 by Nrf2 activation protects against palmitic acid-induced ROS increase in human neuroblastoma BE(2)-M17 cells. Nutrition Research, 2018, 52, 80-86.	1.3	13
108	Chronic consumption of a western diet modifies the DNA methylation profile in the frontal cortex of mice. Food and Function, 2018, 9, 1187-1198.	2.1	5

#	Article	IF	Citations
109	The role of Nrf2 signaling in counteracting neurodegenerative diseases. FEBS Journal, 2018, 285,	2.2	220
110	A mouse model of pre-pregnancy maternal obesity combined with offspring exposure to a high-fat diet resulted in cognitive impairment in male offspring. Experimental Cell Research, 2018, 368, 159-166.	1.2	11
111	Bridging Type 2 Diabetes and Alzheimer's Disease: Assembling the Puzzle Pieces in the Quest for the Molecules With Therapeutic and Preventive Potential. Medicinal Research Reviews, 2018, 38, 261-324.	5.0	55
112	Cognitive deficits associated with a highâ€fat diet and insulin resistance are potentiated by overexpression of ectoâ€nucleotide pyrophosphatase phosphodiesteraseâ€1. International Journal of Developmental Neuroscience, 2018, 64, 48-53.	0.7	15
113	Nrf2 Deficiency Exacerbates Obesity-Induced Oxidative Stress, Neurovascular Dysfunction, Blood–Brain Barrier Disruption, Neuroinflammation, Amyloidogenic Gene Expression, and Cognitive Decline in Mice, Mimicking the Aging Phenotype. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 853-863.	1.7	111
114	Voluntary alcohol consumption exacerbated high fat diet-induced cognitive deficits by NF-κB-calpain dependent apoptotic cell death in rat hippocampus: Ameliorative effect of melatonin. Biomedicine and Pharmacotherapy, 2018, 108, 1393-1403.	2.5	26
115	Assessment of Cognitive Impairment in a Mouse Model of High-Fat Diet-Induced Metabolic Stress with Touchscreen-Based Automated Battery System. Experimental Neurobiology, 2018, 27, 277-286.	0.7	15
116	Nutritional Regulation of Intestinal Stem Cells. Annual Review of Nutrition, 2018, 38, 273-301.	4.3	44
117	The transcriptome of the rat subfornical organ is altered in response to early postnatal overnutrition. IBRO Reports, 2018, 5, 17-23.	0.3	7
118	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. International Review of Cell and Molecular Biology, 2018, 340, 209-344.	1.6	208
119	Cafeteria-diet effects on cognitive functions, anxiety, fear response and neurogenesis in the juvenile rat. Neurobiology of Learning and Memory, 2018, 155, 197-207.	1.0	38
120	Cognitive impairment in metabolically-obese, normal-weight rats: identification of early biomarkers in peripheral blood mononuclear cells. Molecular Neurodegeneration, 2018, 13, 14.	4.4	34
121	Obesity in Aging Exacerbates Neuroinflammation, Dysregulating Synaptic Function-Related Genes and Altering Eicosanoid Synthesis in the Mouse Hippocampus: Potential Role in Impaired Synaptic Plasticity and Cognitive Decline. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 290-298.	1.7	72
122	Heat-induced protein oxidation of soybean meal impairs growth performance and antioxidant status of broilers. Poultry Science, 2019, 98, 276-286.	1.5	16
123	Sex-Specific Differences in Fat Storage, Development of Non-Alcoholic Fatty Liver Disease and Brain Structure in Juvenile HFD-Induced Obese Ldlr-/Leiden Mice. Nutrients, 2019, 11, 1861.	1.7	21
124	Doenjang, A Korean Traditional Fermented Soybean Paste, Ameliorates Neuroinflammation and Neurodegeneration in Mice Fed a High-Fat Diet. Nutrients, 2019, 11, 1702.	1.7	28
125	The role of inflammation and endoplasmic reticulum stress in obesity-related cognitive impairment. Life Sciences, 2019, 233, 116707.	2.0	16
126	Accelerated decline in cognition in a mouse model of increased oxidative stress. GeroScience, 2019, 41, 591-607.	2.1	37

ARTICLE IF CITATIONS Serine Phosphorylation of IRS1 Correlates with AÎ<sup>2</sup>-Unrelated Memory Deficits and Elevation in AÎ<sup>2</sup> Level 127 1.7 13 Prior to the Onset of Memory Decline in AD. Nutrients, 2019, 11, 1942. Modulation of Cognition: The Role of <i>Cnidia glauca</i> on Spatial Learning and Memory Retention 1.0 9 in High-Fat Diet-Induced Obese Rats. Neural Plasticity, 2019, 2019, 1-16. Antioxidant Properties of Fucoidan Alleviate Acceleration and Exacerbation of Hippocampal Neuronal Death Following Transient Global Cerebral Ischemia in High-Fat Diet-Induced Obese Gerbils. 129 1.8 32 International Journal of Molecular Sciences, 2019, 20, 554. High fat diet alters gut microbiota but not spatial working memory in early middle-aged Sprague Dawley rats. PLoS ONE, 2019, 14, e0217553. High-Fat Diets and LXRs Expression in Rat Liver and Hypothalamus. Cellular and Molecular 131 1.7 8 Neurobiology, 2019, 39, 963-974. Effect of Initial Aging and High-Fat/High-Fructose Diet on Mitochondrial Bioenergetics and Oxidative Status in Rat Brain. Molecular Neurobiology, 2019, 56, 7651-7663. Hericium erinaceus Mycelium and Its Isolated Compound, Erinacine A, Ameliorate High-Fat 133 High-Sucrose Diet-Induced Metabolic Dysfunction and Spatial Learning Deficits in Aging Mice. Journal 0.8 17 of Medicinal Food, 2019, 22, 469-478. Strawberry Intake Ameliorates Oxidative Stress and Decreases GABA Levels Induced by High-Fat Diet in 134 Frontal Cortex of Rats. Antioxidants, 2019, 8, 70. Minocycline reverses diabetes-associated cognitive impairment in rats. Pharmacological Reports, 2019, 135 1.5 11 71, 713-720. Use of high-fat diets to study rodent obesity as a model of human obesity. International Journal of 1.6 147 Obesity, 2019, 43, 1491-1492. High Protein Diet Induces Oxidative Stress in Rat Cerebral Cortex and Hypothalamus. International 137 1.8 32 Journal of Molecular Sciences, 2019, 20, 1547. Co-exposure of metals and high fat diet causes aging like neuropathological changes in non-aged mice 138 1.4 brain. Brain Research Bulletin, 2019, 147, 148-158. Nrf2/ARE Pathway Modulation by Dietary Energy Regulation in Neurological Disorders. Frontiers in 139 1.6 67 Pharmacology, 2019, 10, 33. Endurance Exercise Prevents Metabolic Distress–induced Senescence in the Hippocampus. Medicine 140 0.2 and Science in Sports and Exercise, 2019, 51, 2012-2024. High-fat diet impairs cognitive function of zebrafish. Scientific Reports, 2019, 9, 17063. 141 29 1.6 Interaction of Diet and Ozone Exposure on Oxidative Stress Parameters within Specific Brain Regions 142 1.8 28 of Male Brown Norway Rats. International Journal of Molecular Sciences, 2019, 20, 11. Dendrobium officinale polysaccharides attenuate learning and memory disabilities via anti-oxidant 143 3.6 68 and anti-inflammatory actions. International Journal of Biological Macromolecules, 2019, 126, 414-426. Effects of Cannabidiol on Diabetes Outcomes and Chronic Cerebral Hypoperfusion Comorbidities in 144 1.3 Middle-Aged Rats. Neurotoxicity Research, 2019, 35, 463-474.

#	Article	IF	CITATIONS
145	Disruption of the hippocampal and hypothalamic blood–brain barrier in a diet-induced obese model of type II diabetes: prevention and treatment by the mitochondrial carbonic anhydrase inhibitor, topiramate. Fluids and Barriers of the CNS, 2019, 16, 1.	2.4	106
146	Neurochemical Modifications in the Hippocampus, Cortex and Hypothalamus of Mice Exposed to Long-Term High-Fat Diet. Frontiers in Neuroscience, 2018, 12, 985.	1.4	88
147	Diabesity and brain disturbances: A metabolic perspective. Molecular Aspects of Medicine, 2019, 66, 71-79.	2.7	22
148	Lycopene attenuates western-diet-induced cognitive deficits via improving glycolipid metabolism dysfunction and inflammatory responses in gut–liver–brain axis. International Journal of Obesity, 2019, 43, 1735-1746.	1.6	47
149	Diabetes and Alzheimer's Disease: A Link not as Simple as it Seems. Neurochemical Research, 2019, 44, 1271-1278.	1.6	47
150	Blueberry supplementation attenuates microglia activation and increases neuroplasticity in mice consuming a high-fat diet. Nutritional Neuroscience, 2019, 22, 253-263.	1.5	27
151	Agave fructans and oligofructose decrease oxidative stress in brain regions involved in learning and memory of overweight mice. Natural Product Research, 2019, 33, 1527-1530.	1.0	17
152	Measures of general and abdominal obesity and disability severity in a large population of people with multiple sclerosis. Multiple Sclerosis Journal, 2020, 26, 976-986.	1.4	28
153	Can krill oil be of use for counteracting neuroinflammatory processes induced by high fat diet and aging?. Neuroscience Research, 2020, 157, 1-14.	1.0	15
154	Impairment of Long-term Memory by a Short-term High-fat Diet via Hippocampal Oxidative Stress and Alterations in Synaptic Plasticity. Neuroscience, 2020, 424, 24-33.	1.1	35
155	Chronic NaHS treatment improves spatial and passive avoidance learning and memory and anxiety-like behavior and decreases oxidative stress in rats fed with a high-fat diet. Brain Research Bulletin, 2020, 164, 380-391.	1.4	14
156	Brain and muscle adaptation to high-fat diets and exercise: Metabolic transporters, enzymes and substrates in the rat cortex and muscle. Brain Research, 2020, 1749, 147126.	1.1	3
157	Cognition impairment of rat in undersea environment. International Journal of Environmental Health Research, 2022, 32, 829-839.	1.3	3
158	ROS networks: designs, aging, Parkinson's disease and precision therapies. Npj Systems Biology and Applications, 2020, 6, 34.	1.4	50
159	High fat diet-induced obesity causes a reduction in brain tyrosine hydroxylase levels and non-motor features in rats through metabolic dysfunction, neuroinflammation and oxidative stress. Nutritional Neuroscience, 2022, 25, 1026-1040.	1.5	21
160	Western diet aggravates neuronal insult in post-traumatic brain injury: Proposed pathways for interplay. EBioMedicine, 2020, 57, 102829.	2.7	28
161	Date seeds alleviate behavioural and neuronal complications of metabolic syndrome in rats. Archives of Physiology and Biochemistry, 2020, , 1-15.	1.0	1
162	(â^')-Epicatechin mitigates high fat diet-induced neuroinflammation and altered behavior in mice. Food and Function, 2020, 11, 5065-5076.	2.1	16

#	Article	IF	CITATIONS
163	Effect of Maternal Exercise on Diet-induced Redox Imbalance in Hippocampus of Adult Offspring. Neuroscience, 2020, 437, 196-206.	1.1	3
164	Acute emotional stress and high fat/high fructose diet modulate brain oxidative damage through NrF2 and uric acid in rats. Nutrition Research, 2020, 79, 23-34.	1.3	13
165	Mori Cortex Radicis Attenuates High Fat Diet-Induced Cognitive Impairment via an IRS/Akt Signaling Pathway. Nutrients, 2020, 12, 1851.	1.7	20
166	Neuroinflammation: An overview of neurodegenerative and metabolic diseases and of biotechnological studies. Neurochemistry International, 2020, 136, 104714.	1.9	53
167	Prevention of multiple system atrophy using human bone marrow-derived mesenchymal stem cells by reducing polyamine and cholesterol-induced neural damages. Stem Cell Research and Therapy, 2020, 11, 63.	2.4	2
168	Tocotrienols Influence Body Weight Gain and Brain Protein Expression in Long-Term High-Fat Diet-Treated Mice. International Journal of Molecular Sciences, 2020, 21, 4533.	1.8	10
169	High-Fat Diet Enhances Working Memory in the Y-Maze Test in Male C57BL/6J Mice with Less Anxiety in the Elevated Plus Maze Test. Nutrients, 2020, 12, 2036.	1.7	56
170	Insulin signaling pathway and related molecules: Role in neurodegeneration and Alzheimer's disease. Neurochemistry International, 2020, 135, 104707.	1.9	126
171	Resolvin D1 Prevents the Impairment in the Retention Memory and Hippocampal Damage in Rats Fed a Corn Oil-Based High Fat Diet by Upregulation of Nrf2 and Downregulation and Inactivation of p66Shc. Neurochemical Research, 2020, 45, 1576-1591.	1.6	11
172	Obesity and Alzheimer's disease: Molecular bases. European Journal of Neuroscience, 2020, 52, 3944-3950.	1.2	38
173	Evaluation of the neuroprotective effect of donepezil in type 2 diabetic rats. Fundamental and Clinical Pharmacology, 2021, 35, 97-112.	1.0	12
174	Diet and depression: exploring the biological mechanisms of action. Molecular Psychiatry, 2021, 26, 134-150.	4.1	265
175	Obesity-induced cognitive impairment in older adults: a microvascular perspective. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H740-H761.	1.5	51
176	Agomelatine effects on fat-enriched diet induced neuroinflammation and depression-like behavior in rats. Biomedicine and Pharmacotherapy, 2021, 135, 111246.	2.5	21
177	The Therapeutic Potential of Carnosine/Anserine Supplementation against Cognitive Decline: A Systematic Review with Meta-Analysis. Biomedicines, 2021, 9, 253.	1.4	39
178	Fructoseâ€rich diet and walnut supplementation differently regulate rat hypothalamic and hippocampal glucose transporters expression. Journal of the Science of Food and Agriculture, 2021, 101, 5984-5991.	1.7	1
179	Sensory and memory processing in old female and male Wistar rat brain, and its relationship with the cortical and hippocampal redox state. GeroScience, 2021, 43, 1899-1920.	2.1	5
180	Effects of the hydroalcoholic extract of Rosa damascena on hippocampal long-term potentiation in rats fed high-fat diet. Journal of Physiological Sciences, 2021, 71, 14.	0.9	3

#	Article	IF	CITATIONS
181	Chronic Standard Scheduled-Diet Improves Memory Performance and Is Associated with Positive Correlation between Plasma Ghrelin and Hippocampal Dopamine Level in Rats. Neurochemical Journal, 2021, 15, 148-153.	0.2	0
182	Cognitive impairment in obese rat model: role of glial cells. International Journal of Obesity, 2021, 45, 2191-2196.	1.6	4
183	Protective effects of krill oil on high fat diet-induced cognitive impairment by regulation of oxidative stress. Free Radical Research, 2021, 55, 700-710.	1.5	1
184	Reassessment of Pioglitazone for Alzheimer's Disease. Frontiers in Neuroscience, 2021, 15, 666958.	1.4	30
185	Hippocampal neural cell loss in high-fat diet-induced obese rats–exploring the protein networks, ultrastructure, biochemical and bioinformatical markers. Journal of Chemical Neuroanatomy, 2021, 114, 101947.	1.0	8
186	Expression Profile of Brain Aging and Metabolic Function are Altered by Resveratrol or α-Ketoglutarate Supplementation in Rats Fed a High-Fat Diet. Polish Journal of Food and Nutrition Sciences, 2021, , 255-268.	0.6	0
187	Acetate rescues defective brain-adipose metabolic network in obese Wistar rats by modulation of peroxisome proliferator-activated receptor-Î <sup>3</sup> . Scientific Reports, 2021, 11, 18967.	1.6	9
188	Altered Brain Cholinergic and Synaptic Markers in Obese Zucker Rats. Cells, 2021, 10, 2528.	1.8	14
189	Lycopene abrogates obesity-provoked hyperactivity of neurosignalling enzymes, oxidative stress and hypothalamic inflammation in female Wistar rats. Neurochemistry International, 2021, 149, 105125.	1.9	8
190	High fat diet and its effects on cognitive health: alterations of neuronal and vascular components of brain. Physiology and Behavior, 2021, 240, 113528.	1.0	22
191	Soy isoflavones improve the oxidative stress induced hypothalamic inflammation and apoptosis in high fat diet-induced obese male mice through PGC1-alpha pathway. Aging, 2020, 12, 8710-8727.	1.4	16
192	The Effects of Obesity on the Cerebral Vasculature. Current Vascular Pharmacology, 2014, 12, 462-472.	0.8	67
193	Alzheimer Disease and Type 2 Diabetes Mellitus: The Link to Tyrosine Hydroxylase and Probable Nutritional Strategies. CNS and Neurological Disorders - Drug Targets, 2014, 13, 467-477.	0.8	14
194	Cognitive Function and Quality of Life in Mild Thyroid Hormone Deficiency. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery, 2014, 8, 124-134.	0.7	13
195	Obesity and Diabetes Mediated Chronic Inflammation: A Potential Biomarker in Alzheimer's Disease. Journal of Personalized Medicine, 2020, 10, 42.	1.1	29
196	Potential Consequences of Obesity on Cognitive Behavior. , 2011, , 147-166.		0
199	Peripheral versus central insulin and leptin resistance: Role in metabolic disorders, cognition, and neuropsychiatric diseases. Neuropharmacology, 2022, 203, 108877.	2.0	19
200	Effects of dietary fat manipulation on cognition in mice and rats: protocol for a systematic review and meta-analysis. BMJ Open Science, 2020, 4, e100108.	0.8	3

#	Article	IF	CITATIONS
202	CYP1B1 deiciency ameliorates learning and memory deficits caused by high fat diet in mice. American Journal of Translational Research (discontinued), 2019, 11, 2194-2206.	0.0	4
203	Inflammation, Oxidative Stress, Insulin Resistance, and Hypertension as Mediators for Adverse Effects		

ATION R

#	Article	IF	CITATIONS
220	The role of selenium in shaping mice brain metabolome and selenoproteome through the gut-brain axis by combining metabolomics, metallomics, gene expression, and amplicon sequencing. Journal of Nutritional Biochemistry, 2023, 117, 109323.	1.9	1
221	Cognitive decline in diabetic mice predisposed to Alzheimer's disease is greater than in wild type. Life Science Alliance, 2023, 6, e202201789.	1.3	2
225	High-fat diet-induced cellular neuroinflammation: Alteration of brain functions and associated aliments. , 2023, , 613-629.		0