

William E Sonntag

List of Publications by Year in descending order

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Version: 2024-02-01

203
papers

12,981
citations

17440

63
h-index

30087

103
g-index

205
all docs

205
docs citations

205
times ranked

13034
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Susceptibility to Cerebral Microhemorrhages Is Associated With Imaging Signs of Microvascular Degeneration in the Retina in an Insulin-Like Growth Factor 1 Deficient Mouse Model of Accelerated Aging. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 788296.	3.4	11
2	IGF1R signaling regulates astrocyte-mediated neurovascular coupling in mice: implications for brain aging. <i>GeroScience</i> , 2021, 43, 901-911.	4.6	35
3	Sleep deprivation alters task-related changes in functional connectivity of the frontal cortex: A near-infrared spectroscopy study. <i>Brain and Behavior</i> , 2021, 11, e02135.	2.2	13
4	Endothelial deficiency of insulin-like growth factor-1 receptor (IGF1R) impairs neurovascular coupling responses in mice, mimicking aspects of the brain aging phenotype. <i>GeroScience</i> , 2021, 43, 2387-2394.	4.6	31
5	Measuring Behavior in the Home Cage: Study Design, Applications, Challenges, and Perspectives. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 735387.	2.0	46
6	Sleep deprivation impairs cognitive performance, alters task-associated cerebral blood flow and decreases cortical neurovascular coupling-related hemodynamic responses. <i>Scientific Reports</i> , 2021, 11, 20994.	3.3	22
7	Neuroinvasive <i>Listeria monocytogenes</i> infection triggers accumulation of brain CD8+ tissue-resident memory T cells in a miR-155-dependent fashion. <i>Journal of Neuroinflammation</i> , 2020, 17, 259.	7.2	10
8	Interleukin 6 reduces allopregnanolone synthesis in the brain and contributes to age-related cognitive decline in mice. <i>Journal of Lipid Research</i> , 2020, 61, 1308-1319.	4.2	15
9	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiation-induced impairment of neurovascular coupling responses protecting cognitive function in mice. <i>GeroScience</i> , 2020, 42, 409-428.	4.6	62
10	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiation-induced impairment of neurovascular coupling responses protecting cognitive function in mice. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
11	Accelerated decline in cognition in a mouse model of increased oxidative stress. <i>GeroScience</i> , 2019, 41, 591-607.	4.6	37
12	Central IGF-1 protects against features of cognitive and sensorimotor decline with aging in male mice. <i>GeroScience</i> , 2019, 41, 185-208.	4.6	59
13	Chemically induced carcinogenesis in rodent models of aging: assessing organismal resilience to genotoxic stressors in geroscience research. <i>GeroScience</i> , 2019, 41, 209-227.	4.6	16
14	Age-related decline in peripheral vascular health predicts cognitive impairment. <i>GeroScience</i> , 2019, 41, 125-136.	4.6	62
15	Endothelium-specific disruption of IGF-1 signaling impairs blood flow regulation in mice. <i>FASEB Journal</i> , 2019, 33, 684.13.	0.5	0
16	Insulin-like growth factor receptor signaling regulates working memory, mitochondrial metabolism, and amyloid- β uptake in astrocytes. <i>Molecular Metabolism</i> , 2018, 9, 141-155.	6.5	119
17	Treatment with the mitochondrial-targeted antioxidant peptide α -MSH rescues neurovascular coupling responses and cerebrovascular endothelial function and improves cognition in aged mice. <i>Aging Cell</i> , 2018, 17, e12731.	6.7	128
18	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. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 853-863.	3.6	111

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19	Endothelial Cell Inflammation and Antioxidant Capacity are Associated With 6-Minute Walk Performance in Patients With Symptomatic Peripheral Artery Disease. <i>Angiology</i> , 2018, 69, 416-423.	1.8	6
20	Simultaneous assessment of cognitive function, circadian rhythm, and spontaneous activity in aging mice. <i>GeroScience</i> , 2018, 40, 123-137.	4.6	37
21	Age-related focal loss of contractile vascular smooth muscle cells in retinal arterioles is accelerated by caveolin-1 deficiency. <i>Neurobiology of Aging</i> , 2018, 71, 1-12.	3.1	16
22	Selective disruption of IGF-1 signaling in astrocytes impairs neurovascular coupling in mice: implications for cerebrovascular aging. <i>FASEB Journal</i> , 2018, 32, 711.10.	0.5	0
23	CNS-wide Sexually Dimorphic Induction of the Major Histocompatibility Complex 1 Pathway With Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 16-29.	3.6	52
24	Regional changes in CNS and retinal glycerophospholipid profiles with age: a molecular blueprint. <i>Journal of Lipid Research</i> , 2017, 58, 668-680.	4.2	30
25	The GH/IGF-1 axis in a critical period early in life determines cellular DNA repair capacity by altering transcriptional regulation of DNA repair-related genes: implications for the developmental origins of cancer. <i>GeroScience</i> , 2017, 39, 147-160.	4.6	65
26	Association between daily walking and antioxidant capacity in patients with symptomatic peripheral artery disease. <i>Journal of Vascular Surgery</i> , 2017, 65, 1762-1768.	1.1	17
27	IGF-1 has sexually dimorphic, pleiotropic, and time-dependent effects on healthspan, pathology, and lifespan. <i>GeroScience</i> , 2017, 39, 129-145.	4.6	111
28	Insulin-like growth factor 1 deficiency exacerbates hypertension-induced cerebral microhemorrhages in mice, mimicking the aging phenotype. <i>Aging Cell</i> , 2017, 16, 469-479.	6.7	78
29	Role of NADPH oxidase in radiation-induced pro-oxidative and pro-inflammatory pathways in mouse brain. <i>International Journal of Radiation Biology</i> , 2017, 93, 1257-1266.	1.8	20
30	Sexually divergent induction of microglial-associated neuroinflammation with hippocampal aging. <i>Journal of Neuroinflammation</i> , 2017, 14, 141.	7.2	142
31	Differential effects of IGF-1 deficiency during the life span on structural and biomechanical properties in the tibia of aged mice. <i>Age</i> , 2016, 38, 38.	3.0	19
32	Bisulfite oligonucleotide-capture sequencing for targeted base- and strand-specific absolute 5-methylcytosine quantitation. <i>Age</i> , 2016, 38, 49.	3.0	14
33	Circulating IGF-1 deficiency exacerbates hypertension-induced microvascular rarefaction in the mouse hippocampus and retrosplenial cortex: implications for cerebrovascular and brain aging. <i>Age</i> , 2016, 38, 273-289.	3.0	70
34	The Protein Tyrosine Phosphatase MEG2 Regulates the Transport and Signal Transduction of Tropomyosin Receptor Kinase A. <i>Journal of Biological Chemistry</i> , 2016, 291, 23895-23905.	3.4	22
35	IGF-1 deficiency in a critical period early in life influences the vascular aging phenotype in mice by altering miRNA-mediated post-transcriptional gene regulation: implications for the developmental origins of health and disease hypothesis. <i>Age</i> , 2016, 38, 239-258.	3.0	36
36	Absence of genomic hypomethylation or regulation of cytosine-modifying enzymes with aging in male and female mice. <i>Epigenetics and Chromatin</i> , 2016, 9, 30.	3.9	45

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37	GeroScience: understanding the interaction of processes of aging and chronic diseases. <i>Age</i> , 2016, 38, 377-378.	3.0	9
38	IGF-1 Regulates Vertebral Bone Aging Through Sex-Specific and Time-Dependent Mechanisms. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 443-454.	2.8	41
39	Effects of age and insulin-like growth factor-1 on rat neurotrophin receptor expression after nerve injury. <i>Muscle and Nerve</i> , 2016, 54, 769-775.	2.2	6
40	Recent Developments in Understanding Brain Aging: Implications for Alzheimer's Disease and Vascular Cognitive Impairment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 13-20.	3.6	42
41	IGF1 deficiency impairs neurovascular coupling in mice: implications for cerebrovascular aging. <i>Aging Cell</i> , 2015, 14, 1034-1044.	6.7	121
42	Purinergic glio-endothelial coupling during neuronal activity: role of P2Y ₁ receptors and eNOS in functional hyperemia in the mouse somatosensory cortex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1837-H1845.	3.2	74
43	Influence of diabetes on ambulation and inflammation in men and women with symptomatic peripheral artery disease. <i>Journal of Clinical and Translational Endocrinology</i> , 2015, 2, 137-143.	1.4	6
44	Resveratrol Encapsulated in Novel Fusogenic Liposomes Activates Nrf2 and Attenuates Oxidative Stress in Cerebrovascular Endothelial Cells From Aged Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 303-313.	3.6	56
45	Age-Related Decline of Autocrine Pituitary Adenylate Cyclase-Activating Polypeptide Impairs Angiogenic Capacity of Rat Cerebrovascular Endothelial Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 665-674.	3.6	36
46	Endothelial Cell Inflammation and Antioxidant Capacity are Associated With Exercise Performance and Microcirculation in Patients With Symptomatic Peripheral Artery Disease. <i>Angiology</i> , 2015, 66, 867-874.	1.8	20
47	Aging Impairs Myogenic Adaptation to Pulsatile Pressure in Mouse Cerebral Arteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 527-530.	4.3	54
48	Aging Exacerbates Pressure-Induced Mitochondrial Oxidative Stress in Mouse Cerebral Arteries: Figure 1.. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1355-1359.	3.6	59
49	Pharmacologically-Induced Neurovascular Uncoupling is Associated with Cognitive Impairment in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1871-1881.	4.3	105
50	Aging exacerbates hypertension-induced cerebral microhemorrhages in mice: role of resveratrol treatment in vasoprotection. <i>Aging Cell</i> , 2015, 14, 400-408.	6.7	116
51	Gender and racial differences in endothelial oxidative stress and inflammation in patients with symptomatic peripheral artery disease. <i>Journal of Vascular Surgery</i> , 2015, 61, 1249-1257.	1.1	61
52	Growth hormone, insulin-like growth factor-1 and the aging brain. <i>Experimental Gerontology</i> , 2015, 68, 76-81.	2.8	156
53	Caloric restriction confers persistent anti-oxidative, pro-angiogenic, and anti-inflammatory effects and promotes anti-aging miRNA expression profile in cerebrovascular endothelial cells of aged rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H292-H306.	3.2	128
54	Endothelin-1-Induced Focal Cerebral Ischemia in the Growth Hormone/IGF-1 Deficient Lewis Dwarf Rat. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1353-1362.	3.6	18

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55	Brain and Cerebrovascular Aging - New Mechanisms and Insights. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1307-1310.	3.6	11
56	Systemic influences contribute to prolonged microvascular rarefaction after brain irradiation: a role for endothelial progenitor cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H858-H868.	3.2	22
57	IGF-1 Deficiency Impairs Cerebral Myogenic Autoregulation in Hypertensive Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1887-1897.	4.3	90
58	Impaired Vascular Endothelial Growth Factor A and Inflammation in Patients With Peripheral Artery Disease. <i>Angiology</i> , 2014, 65, 683-690.	1.8	41
59	Greater Endothelial Apoptosis and Oxidative Stress in Patients with Peripheral Artery Disease. <i>International Journal of Vascular Medicine</i> , 2014, 2014, 1-8.	1.0	31
60	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. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1212-1226.	3.6	250
61	A Heart That Beats for 500 Years: Age-Related Changes in Cardiac Proteasome Activity, Oxidative Protein Damage and Expression of Heat Shock Proteins, Inflammatory Factors, and Mitochondrial Complexes in <i>Arctica islandica</i> , the Longest-Living Noncolonial Animal. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1448-1461.	3.6	19
62	Ageing Exacerbates Obesity-induced Cerebromicrovascular Rarefaction, Neurovascular Uncoupling, and Cognitive Decline in Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1339-1352.	3.6	146
63	Hippocampal Subregions Exhibit Both Distinct and Shared Transcriptomic Responses to Aging and Nonneurodegenerative Cognitive Decline. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1311-1324.	3.6	43
64	Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebromicrovascular endothelial function and downregulation of NADPH oxidase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H299-H308.	3.2	158
65	Role of 20-HETE, TRPC channels, and BK _{Ca} in dysregulation of pressure-induced Ca ²⁺ signaling and myogenic constriction of cerebral arteries in aged hypertensive mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1698-H1708.	3.2	83
66	Ageing Exacerbates Obesity-Induced Oxidative Stress and Inflammation in Perivascular Adipose Tissue in Mice: A Paracrine Mechanism Contributing to Vascular Redox Dysregulation and Inflammation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 780-792.	3.6	113
67	Ageing Exacerbates Microvascular Endothelial Damage Induced by Circulating Factors Present in the Serum of Septic Patients. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 652-660.	3.6	31
68	Expression of NgR1-Antagonizing Proteins Decreases with Aging and Cognitive Decline in Rat Hippocampus. <i>Cellular and Molecular Neurobiology</i> , 2013, 33, 483-488.	3.3	18
69	Synergistic effects of hypertension and aging on cognitive function and hippocampal expression of genes involved in A β -amyloid generation and Alzheimer's disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1120-H1130.	3.2	59
70	Testing Predictions of the Oxidative Stress Hypothesis of Aging Using a Novel Invertebrate Model of Longevity: The Giant Clam (<i>Tridacna Derasa</i>). <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 359-367.	3.6	32
71	Ionizing Radiation Promotes the Acquisition of a Senescence-Associated Secretory Phenotype and Impairs Angiogenic Capacity in Cerebromicrovascular Endothelial Cells: Role of Increased DNA Damage and Decreased DNA Repair Capacity in Microvascular Radiosensitivity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 1443-1457.	3.6	114
72	Age-Related Autoregulatory Dysfunction and Cerebromicrovascular Injury in Mice with Angiotensin II-induced Hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1732-1742.	4.3	183

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73	Ageing-Induced Dysregulation of Dicer1-Dependent MicroRNA Expression Impairs Angiogenic Capacity of Rat Cerebromicrovascular Endothelial Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 877-891.	3.6	122
74	Circulating Factors Induced by Caloric Restriction in the Nonhuman Primate <i>Macaca Mulatta</i> Activate Angiogenic Processes in Endothelial Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 235-249.	3.6	51
75	Whole Brain Radiation-Induced Vascular Cognitive Impairment: Mechanisms and Implications. <i>Journal of Vascular Research</i> , 2013, 50, 445-457.	1.4	75
76	Treatment with the cytochrome <i>c</i> P450 hydroxylase inhibitor HET0016 attenuates cerebrovascular inflammation, oxidative stress and improves vasomotor function in spontaneously hypertensive rats. <i>British Journal of Pharmacology</i> , 2013, 168, 1878-1888.	5.4	54
77	Increased hippocampal NgR1 signaling machinery in aged rats with deficits of spatial cognition. <i>European Journal of Neuroscience</i> , 2013, 37, 1643-1658.	2.6	23
78	Resistance to Genotoxic Stresses in <i>Arctica islandica</i> , the Longest Living Noncolonial Animal: Is Extreme Longevity Associated With a Multistress Resistance Phenotype?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 521-529.	3.6	27
79	Insulin-like growth factor-1 in CNS and cerebrovascular aging. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 27.	3.4	98
80	Liver-Specific Knockdown of IGF-1 Decreases Vascular Oxidative Stress Resistance by Impairing the Nrf2-Dependent Antioxidant Response: A Novel Model of Vascular Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 313-329.	3.6	140
81	Diverse Roles of Growth Hormone and Insulin-Like Growth Factor-1 in Mammalian Aging: Progress and Controversies. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 587-598.	3.6	72
82	Disruption of Nrf2 Signaling Impairs Angiogenic Capacity of Endothelial Cells: Implications for Microvascular Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 821-829.	3.6	122
83	Growth Hormone and IGF-1 Deficiency Exacerbate High-Fat Diet-Induced Endothelial Impairment in Obese Lewis Dwarf Rats: Implications for Vascular Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 553-564.	3.6	59
84	Age-Associated Proinflammatory Secretory Phenotype in Vascular Smooth Muscle Cells From the Non-human Primate <i>Macaca mulatta</i> : Reversal by Resveratrol Treatment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 811-820.	3.6	134
85	Testing the Oxidative Stress Hypothesis of Aging in Primate Fibroblasts: Is There a Correlation Between Species Longevity and Cellular ROS Production?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 841-852.	3.6	51
86	Irradiation Alters MMP-2/TIMP-2 System and Collagen Type IV Degradation in Brain. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1559-1566.	0.8	69
87	Growth hormone modulates hippocampal excitatory synaptic transmission and plasticity in old rats. <i>Neurobiology of Aging</i> , 2012, 33, 1938-1949.	3.1	34
88	Ageing, Synaptic Dysfunction, and Insulin-Like Growth Factor (IGF)-1. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 611-625.	3.6	124
89	Muscarinic receptor/G-protein coupling is reduced in the dorsomedial striatum of cognitively impaired aged rats. <i>Behavioural Brain Research</i> , 2012, 227, 258-264.	2.2	27
90	RNA oxidation catalyzed by cytochrome <i>c</i> leads to its depurination and cross-linking, which may facilitate cytochrome <i>c</i> release from mitochondria. <i>Free Radical Biology and Medicine</i> , 2012, 53, 854-862.	2.9	18

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91	Neuroglial Expression of the MHCII Pathway and PirB Receptor Is Upregulated in the Hippocampus with Advanced Aging. <i>Journal of Molecular Neuroscience</i> , 2012, 48, 111-126.	2.3	53
92	Whole Brain Radiation-Induced Cognitive Impairment: Pathophysiological Mechanisms and Therapeutic Targets. <i>Biomolecules and Therapeutics</i> , 2012, 20, 357-370.	2.4	68
93	Hippocampal expression of myelin-associated inhibitors is induced with age-related cognitive decline and correlates with deficits of spatial learning and memory. <i>Journal of Neurochemistry</i> , 2012, 121, 77-98.	3.9	45
94	Whole Brain Radiation-Induced Impairments in Learning and Memory Are Time-Sensitive and Reversible by Systemic Hypoxia. <i>PLoS ONE</i> , 2012, 7, e30444.	2.5	61
95	Disruption of Nrf2 signaling impairs angiogenic capacity of endothelial cells: implications for microvascular aging. <i>FASEB Journal</i> , 2012, 26, 682.10.	0.5	0
96	In hypertension CYP450A metabolite 20 α -HETE exacerbates flow-induced arteriolar constriction and promotes cerebrovascular inflammation. <i>FASEB Journal</i> , 2012, 26, 853.24.	0.5	0
97	Aging exacerbates microvascular endothelial damage induced by inflammatory factors present in the circulation during sepsis. <i>FASEB Journal</i> , 2012, 26, 1058.11.	0.5	0
98	Potential role of NADPH oxidase in radiation-induced pro-oxidative and pro-inflammatory pathways in mouse brain. <i>FASEB Journal</i> , 2012, 26, 692.7.	0.5	0
99	Bone marrow cells are necessary for cerebral microvascular recovery following whole brain radiation therapy in mice. <i>FASEB Journal</i> , 2012, 26, 682.6.	0.5	0
100	High fat diet-induced obesity promotes cerebrovascular autoregulatory dysfunction in aged mice. <i>FASEB Journal</i> , 2012, 26, 685.30.	0.5	0
101	Extreme Longevity Is Associated With Increased Resistance to Oxidative Stress in <i>Arctica islandica</i> , the Longest-Living Non-Colonial Animal. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 741-750.	3.6	89
102	Age-Associated Vascular Oxidative Stress, Nrf2 Dysfunction, and NF- κ B Activation in the Nonhuman Primate <i>Macaca mulatta</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 866-875.	3.6	194
103	Radiation Attenuates Physiological Angiogenesis by Differential Expression of VEGF, Ang-1, Tie-2 and Ang-2 in Rat Brain. <i>Radiation Research</i> , 2011, 176, 753-760.	1.5	35
104	Free Radical Production, Antioxidant Capacity, and Oxidative Stress Response Signatures in Fibroblasts From Lewis Dwarf Rats: Effects of Life Span-Extending Peripubertal GH Treatment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 501-510.	3.6	38
105	Vascular oxidative stress in aging: a homeostatic failure due to dysregulation of NRF2-mediated antioxidant response. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H363-H372.	3.2	229
106	Quantification of oxidized levels of specific RNA species using an aldehyde reactive probe. <i>Analytical Biochemistry</i> , 2011, 417, 142-148.	2.4	11
107	Aging-related kidney damage is associated with a decrease in <i>klotho</i> expression and an increase in superoxide production. <i>Age</i> , 2011, 33, 261-274.	3.0	53
108	Concurrent hippocampal induction of MHC II pathway components and glial activation with advanced aging is not correlated with cognitive impairment. <i>Journal of Neuroinflammation</i> , 2011, 8, 138.	7.2	111

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109	Hippocampal dysregulation of synaptic plasticity-associated proteins with age-related cognitive decline. <i>Neurobiology of Disease</i> , 2011, 43, 201-212.	4.4	120
110	An assay for RNA oxidation induced abasic sites using the Aldehyde Reactive Probe. <i>Free Radical Research</i> , 2011, 45, 237-247.	3.3	29
111	Mitochondrial Protection by Resveratrol. <i>Exercise and Sport Sciences Reviews</i> , 2011, 39, 128-132.	3.0	99
112	Adaptive induction of NF-E2-related factor-2-driven antioxidant genes in endothelial cells in response to hyperglycemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1133-H1140.	3.2	138
113	Circulating IGF1 regulates hippocampal IGF1 levels and brain gene expression during adolescence. <i>Journal of Endocrinology</i> , 2011, 211, 27-37.	2.6	55
114	Cerebral microvascular rarefaction induced by whole brain radiation is reversible by systemic hypoxia in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H736-H744.	3.2	51
115	Irradiation induces vessel rarefaction by differential regulation of Angê1, Tieê2, Angê2, and VEGF in rat brain. <i>FASEB Journal</i> , 2011, 25, 1001.6.	0.5	0
116	Age-related alterations in retinal neurovascular and inflammatory transcripts. <i>Molecular Vision</i> , 2011, 17, 1261-74.	1.1	28
117	Mitochondria and aging in the vascular system. <i>Journal of Molecular Medicine</i> , 2010, 88, 1021-1027.	3.9	82
118	Effect of locally delivered IGFê1 on nerve regeneration during aging: An experimental study in rats. <i>Muscle and Nerve</i> , 2010, 41, 335-341.	2.2	98
119	Aging alters the expression of neurotransmissionêregulating proteins in the hippocampal synaptoproteome. <i>Journal of Neurochemistry</i> , 2010, 113, 1577-1588.	3.9	109
120	Vasoprotective Effects of Life Span-Extending Peripubertal GH Replacement in Lewis Dwarf Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 1145-1156.	3.6	43
121	Mechanisms of Vascular Aging: New Perspectives. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 1028-1041.	3.6	429
122	Resveratrol confers endothelial protection via activation of the antioxidant transcription factor Nrf2. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H18-H24.	3.2	457
123	Impaired Bladder Function in Aging Male Rats. <i>Journal of Urology</i> , 2010, 184, 378-385.	0.4	55
124	Irradiation induces regionally specific alterations in pro-inflammatory environments in rat brain. <i>International Journal of Radiation Biology</i> , 2010, 86, 132-144.	1.8	162
125	Aging attenuates radiation-induced expression of pro-inflammatory mediators in rat brain. <i>Neuroscience Letters</i> , 2010, 476, 89-93.	2.1	35
126	AgingêRelated Renal Damage Is Associated with Decreased Klotho Expression and Increased Superoxide Production. <i>FASEB Journal</i> , 2010, 24, 1059.14.	0.5	0

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127	Stability of local brain levels of insulin-like growth factor-I in two well-characterized models of decreased plasma IGF-I. <i>Growth Factors</i> , 2009, 27, 181-188.	1.7	27
128	Adult-onset deficiency in growth hormone and insulin-like growth factor-1 alters oligodendrocyte turnover in the corpus callosum. <i>Glia</i> , 2009, 57, 1062-1071.	4.9	31
129	How age impairs the response of the neuromuscular junction to nerve transection and repair: An experimental study in rats. <i>Journal of Orthopaedic Research</i> , 2009, 27, 385-393.	2.3	51
130	The ependymal route for insulin-like growth factor-1 gene therapy in the brain. <i>Neuroscience</i> , 2009, 163, 442-447.	2.3	30
131	Basal and hypercapnia-altered cerebrovascular perfusion predict mild cognitive impairment in aging rodents. <i>Neuroscience</i> , 2009, 164, 918-928.	2.3	30
132	Does senescence give rise to disease?. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 693-699.	4.6	52
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