Stefano Luca Sensi

List of Publications by Year
in descending order

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132 papers	12,047 citations	36271 51 h-index	26591 107 g-index
147 all docs	147 docs citations	147 times ranked	12262 citing authors

#	Article	IF	Citations
1	Brain monoglyceride lipase participating in endocannabinoid inactivation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10819-10824.	3.3	1,206
2	NCLX is an essential component of mitochondrial Na ⁺ /Ca ²⁺ exchange. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 436-441.	3.3	683
3	Zinc in the physiology and pathology of the CNS. Nature Reviews Neuroscience, 2009, 10, 780-791.	4.9	647
4	Mediation of Neuronal Apoptosis by Enhancement of Outward Potassium Current. Science, 1997, 278, 114-117.	6.0	552
5	Zn2+: a novel ionic mediator of neural injury in brain disease. Trends in Pharmacological Sciences, 2000, 21, 395-401.	4.0	536
6	Measurement of Intracellular Free Zinc in Living Cortical Neurons: Routes of Entry. Journal of Neuroscience, 1997, 17, 9554-9564.	1.7	436
7	Modulation of mitochondrial function by endogenous Zn2+ pools. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6157-6162.	3.3	387
8	Preferential Zn2+ influx through Ca2+-permeable AMPA/kainate channels triggers prolonged mitochondrial superoxide production. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 2414-2419.	3.3	372
9	Alzheimer's disease, metal ions and metal homeostatic therapy. Trends in Pharmacological Sciences, 2009, 30, 346-355.	4.0	304
10	The Neurophysiology and Pathology of Brain Zinc. Journal of Neuroscience, 2011, 31, 16076-16085.	1.7	291
11	AMPA Exposures Induce Mitochondrial Ca²⁺Overload and ROS Generation in Spinal Motor NeuronsIn Vitro. Journal of Neuroscience, 2000, 20, 240-250.	1.7	284
12	The first 17 amino acids of Huntingtin modulate its sub-cellular localization, aggregation and effects on calcium homeostasis. Human Molecular Genetics, 2007, 16, 61-77.	1.4	247
13	Zn2+ Induces Permeability Transition Pore Opening and Release of Pro-apoptotic Peptides from Neuronal Mitochondria. Journal of Biological Chemistry, 2001, 276, 47524-47529.	1.6	243
14	Staurosporine-Induced Neuronal Apoptosis. Experimental Neurology, 1995, 135, 153-159.	2.0	236
15	Ca2+â€“Zn2+ permeable AMPA or kainate receptors: possible key factors in selective neurodegeneration. Trends in Neurosciences, 2000, 23, 365-371.	4.2	232
16	Measuring zinc in living cells.. Cell Calcium, 2002, 31, 245-251.	1.1	232
17	Rapid Ca2+Entry through Ca2+-Permeable AMPA/Kainate Channels Triggers Marked Intracellular Ca2+Rises and Consequent Oxygen Radical Production. Journal of Neuroscience, 1998, 18, 7727-7738.	1.7	189
18	Copper and Zinc Dysregulation in Alzheimerâ€™s Disease. Trends in Pharmacological Sciences, 2018, 39, 1049-1063.	4.0	188

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19	Mechanism and Regulation of Cellular Zinc Transport. Molecular Medicine, 2007, 13, 337-343.	1.9	176
20	Involvement of de NovoCeramide Biosynthesis in Tumor Necrosis Factor-Î±/Cycloheximide-induced Cerebral Endothelial Cell Death. Journal of Biological Chemistry, 1998, 273, 16521-16526.	1.6	167
21	Dietary zinc supplementation of 3xTg-AD mice increases BDNF levels and prevents cognitive deficits as well as mitochondrial dysfunction. Cell Death and Disease, 2010, 1, e91-e91.	2.7	162
22	Effects of Dietary Supplementation of Carnosine on Mitochondrial Dysfunction, Amyloid Pathology, and Cognitive Deficits in 3xTg-AD Mice. PLoS ONE, 2011, 6, e17971.	1.1	151
23	Rethinking the Excitotoxic Ionic Milieu:The Emerging Role of Zn 2+ in Ischemic Neuronal Injury. Current Molecular Medicine, 2004, 4, 87-111.	0.6	150
24	AMPA/kainate receptor-triggered Zn2+entry into cortical neurons induces mitochondrial Zn2+uptake and persistent mitochondrial dysfunction. European Journal of Neuroscience, 2000, 12, 3813-3818.	1.2	140
25	Blockade of Ca²⁺-Permeable AMPA/Kainate Channels Decreases Oxygenâ€“Glucose Deprivation-Induced Zn²⁺Accumulation and Neuronal Loss in Hippocampal Pyramidal Neurons. Journal of Neuroscience, 2002, 22, 1273-1279.	1.7	139
26	A new mitochondrial fluorescent zinc sensor. Cell Calcium, 2003, 34, 281-284.	1.1	132
27	Oxidative stress and brain aging: is zinc the link?. Biogerontology, 2006, 7, 307-314.	2.0	119
28	3-Nitropropionic acid induces apoptosis in cultured striatal and cortical neurons. NeuroReport, 1995, 6, 545-548.	0.6	111
29	Calcium ionophores can induce either apoptosis or necrosis in cultured cortical neurons. Neuroscience, 1999, 90, 1339-1348.	1.1	110
30	Zn 2+ currents are mediated by calciumâ€permeable AMPA/Kainate channels in cultured murine hippocampal neurones. Journal of Physiology, 2002, 543, 35-48.	1.3	106
31	Imaging multiple phases of neurodegeneration: a novel approach to assessing cell death in vivo. Cell Death and Disease, 2010, 1, e3-e3.	2.7	104
32	Zinc dyshomeostasis: A key modulator of neuronal injury. Journal of Alzheimer's Disease, 2005, 8, 93-108.	1.2	100
33	Zinc-Dependent Multi-Conductance Channel Activity in Mitochondria Isolated from Ischemic Brain. Journal of Neuroscience, 2006, 26, 6851-6862.	1.7	93
34	Mitochondrial Sequestration and Ca2+-Dependent Release of Cytosolic Zn2+ Loads in Cortical Neurons. Neurobiology of Disease, 2002, 10, 100-108.	2.1	80
35	New therapeutic targets in Alzheimer's disease: brain deregulation of calcium and zinc. Cell Death and Disease, 2011, 2, e176-e176.	2.7	79
36	Altered Kv2.1 functioning promotes increased excitability in hippocampal neurons of an Alzheimerâ€™s disease mouse model. Cell Death and Disease, 2016, 7, e2100-e2100.	2.7	75

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37	Dendritic localization of Ca2+-permeable AMPA/kainate channels in hippocampal pyramidal neurons. Journal of Comparative Neurology, 1999, 409, 250-260.	0.9	74
38	Aluminum Modulates Effects ofÎ²Amyloid_{1â€“42}on Neuronal Calcium Homeostasis and Mitochondria Functioning and Is Altered in a Triple Transgenic Mouse Model of Alzheimer's Disease. Rejuvenation Research, 2008, 11, 861-871.	0.9	74
39	Medium-chain plasma acylcarnitines, ketone levels, cognition, and gray matter volumes in healthy elderly, mildly cognitively impaired, or Alzheimer's disease subjects. Neurobiology of Aging, 2016, 43, 1-12.	1.5	70
40	Measurement of Intracellular Free Zinc in Living Neurons. Neurobiology of Disease, 1997, 4, 275-279.	2.1	68
41	A Sodium Zinc Exchange Mechanism Is Mediating Extrusion of Zinc in Mammalian Cells. Journal of Biological Chemistry, 2004, 279, 4278-4284.	1.6	64
42	Effects of long-term treatment with pioglitazone on cognition and glucose metabolism of PS1-KI, 3xTg-AD, and wild-type mice. Cell Death and Disease, 2012, 3, e448-e448.	2.7	64
43	Combination Training in Aging Individuals Modifies Functional Connectivity and Cognition, and Is Potentially Affected by Dopamine-Related Genes. PLoS ONE, 2012, 7, e43901.	1.1	64
44	The Mitochondrial Na+/Ca2+ Exchanger Upregulates Glucose Dependent Ca2+ Signalling Linked to Insulin Secretion. PLoS ONE, 2012, 7, e46649.	1.1	64
45	Exenatide promotes cognitive enhancement and positive brain metabolic changes in PS1-KI mice but has no effects in 3xTg-AD animals. Cell Death and Disease, 2013, 4, e612-e612.	2.7	64
46	Sublethal Oxygenâ€“Glucose Deprivation Alters Hippocampal Neuronal AMPA Receptor Expression and Vulnerability to Kainate-Induced Death. Journal of Neuroscience, 1997, 17, 9536-9544.	1.7	62
47	Cortical neurones exhibiting kainate-activated Co2+uptake are selectively vulnerable to AMPA/kainate receptor-mediated toxicity. Neurobiology of Disease, 1994, 1, 101-110.	2.1	61
48	Glutamate triggers preferential Zn2+ flux through Ca2+ permeable AMPA channels and consequent ROS production. NeuroReport, 1999, 10, 1723-1727.	0.6	60
49	Hallucinations, somaticâ€functional disorders of PDâ€ÐLB as expressions of thalamic dysfunction. Movement Disorders, 2019, 34, 1100-1111.	2.2	57
50	Extracellular Acidity Potentiates AMPA Receptor-Mediated Cortical Neuronal Death. Journal of Neuroscience, 1998, 18, 6290-6299.	1.7	56
51	Intracellular zinc is a critical intermediate in the excitotoxic cascade. Neurobiology of Disease, 2015, 81, 25-37.	2.1	55
52	Delayed application of aurintricarboxylic acid reduces glutamate-induced cortical neuronal injury. Journal of Neuroscience Research, 1994, 38, 101-108.	1.3	54
53	Heavy Metal Ions in Normal Physiology, Toxic Stress, and Cytoprotection. Annals of the New York Academy of Sciences, 2007, 1113, 159-172.	1.8	54
54	Acute Effects of Modafinil on Brain Resting State Networks in Young Healthy Subjects. PLoS ONE, 2013, 8, e69224.	1.1	53

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55	Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. Journal of Neuroscience Methods, 2004, 139, 79-89.	1.3	52
56	Alterations of brain and cerebellar proteomes linked to Aî² and tau pathology in a female triple-transgenic murine model of Alzheimer's disease. Cell Death and Disease, 2010, 1, e90-e90.	2.7	51
57	Agitation and Dementia: Prevention and Treatment Strategies in Acute and Chronic Conditions. Frontiers in Neurology, 2021, 12, 644317.	1.1	51
58	Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease without reducing amyloid and tau pathology. Neurobiology of Disease, 2015, 81, 214-224.	2.1	49
59	Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice. Neurobiology of Aging, 2018, 64, 33-43.	1.5	49
60	Characterization of MPP+-Induced Cell Death in a Dopaminergic Neuronal Cell Line: Role of Macromolecule Synthesis, Cytosolic Calcium, Caspase, and Bcl-2-Related Proteins. Experimental Neurology, 1999, 159, 274-282.	2.0	45
61	Altered oxidant-mediated intraneuronal zinc mobilization in a triple transgenic mouse model of Alzheimerâ€™s disease. Experimental Gerontology, 2008, 43, 488-492.	1.2	44
62	Characterization of resting state activity in MCI individuals. PeerJ, 2013, 1, e135.	0.9	43
63	Early and sustained altered expression of aging-related genes in young 3xTg-AD mice. Cell Death and Disease, 2014, 5, e1054-e1054.	2.7	42
64	Therapeutic Potentials of Ketamine and Esketamine in Obsessiveâ€“Compulsive Disorder (OCD), Substance Use Disorders (SUD) and Eating Disorders (ED): A Review of the Current Literature. Brain Sciences, 2021, 11, 856.	1.1	42
65	A Stage-Based Approach to Therapy in Parkinsonâ€™s Disease. Biomolecules, 2019, 9, 388.	1.8	41
66	Age-Dependent Modifications of AMPA Receptor Subunit Expression Levels and Related Cognitive Effects in 3xTg-AD Mice. Frontiers in Aging Neuroscience, 2014, 6, 200.	1.7	38
67	Exenatide Reverts the High-Fat-Diet-Induced Impairment of BDNF Signaling and Inflammatory Response in an Animal Model of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 70, 793-810.	1.2	38
68	A Neurotoxic MÃ©nage-Ã-trois: Glutamate, Calcium, and Zinc in the Excitotoxic Cascade. Frontiers in Molecular Neuroscience, 2020, 13, 600089.	1.4	38
69	The pharmacological perturbation of brain zinc impairs BDNF-related signaling and the cognitive performances of young mice. Scientific Reports, 2018, 8, 9768.	1.6	37
70	Effects of non-pharmacological or pharmacological interventions on cognition and brain plasticity of aging individuals. Frontiers in Systems Neuroscience, 2014, 8, 153.	1.2	36
71	The Pharmacology of Visual Hallucinations in Synucleinopathies. Frontiers in Pharmacology, 2019, 10, 1379.	1.6	36
72	Psychogenic Non-epileptic Seizures and Pseudo-Refractory Epilepsy, a Management Challenge. Frontiers in Neurology, 2020, 11, 461.	1.1	36

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73	Elevated plasma ceramide levels in post-menopausal women: a cross-sectional study. Aging, 2019, 11, 73-88.	1.4	36
74	Functional signature of conversion of patients with mild cognitive impairment. Neurobiology of Aging, 2019, 74, 21-37.	1.5	34
75	Ratiometric-pericam-mt, a novel tool to evaluate intramitochondrial zinc. Experimental Neurology, 2009, 218, 228-234.	2.0	33
76	Copper Imbalance in Alzheimerâ€™s Disease: Meta-Analysis of Serum, Plasma, and Brain Specimens, and Replication Study Evaluating ATP7B Gene Variants. Biomolecules, 2021, 11, 960.	1.8	33
77	Nitric oxide reduces Ca2+ and Zn2+ influx through voltage-gated Ca2+ channels and reduces Zn2+ neurotoxicity. Neuroscience, 2000, 100, 651-661.	1.1	32
78	Towards Combinatorial Approaches for Preserving Cognitive Fitness in Aging. Trends in Neurosciences, 2018, 41, 885-897.	4.2	30
79	Microarray Analysis on Human Neuroblastoma Cells Exposed to Aluminum, Î²1â€“42-Amyloid or the Î²1â€“42-Amyloid Aluminum Complex. PLoS ONE, 2011, 6, e15965.	1.1	28
80	New daily persistent headache after SARS-CoV-2 infection: a report of two cases. Neurological Sciences, 2021, 42, 3965-3968.	0.9	27
81	Zinc pre-treatment enhances NMDAR-mediated excitotoxicity in cultured cortical neurons from SOD1G93A mouse, a model of amyotrophic lateral sclerosis. Neuropharmacology, 2011, 60, 1200-1208.	2.0	25
82	Modafinil Alters Intrinsic Functional Connectivity of the Right Posterior Insula: A Pharmacological Resting State fMRI Study. PLoS ONE, 2014, 9, e107145.	1.1	25
83	Interictal Heart Rate Variability Analysis Reveals Lateralization of Cardiac Autonomic Control in Temporal Lobe Epilepsy. Frontiers in Neurology, 2020, 11, 842.	1.1	22
84	Antioxidant strategies based on tomato-enriched food or pyruvate do not affect disease onset and survival in an animal model of amyotrophic lateral sclerosis. Brain Research, 2007, 1168, 90-96.	1.1	20
85	nNOS(+) striatal neurons, a subpopulation spared in Huntington's Disease, possess functional NMDA receptors but fail to generate mitochondrial ROS in response to an excitotoxic challenge. Frontiers in Physiology, 2013, 4, 112.	1.3	20
86	Alemtuzumab treatment of multiple sclerosis in real-world clinical practice: A report from a single Italian center. Multiple Sclerosis and Related Disorders, 2020, 38, 101504.	0.9	19
87	Decreased Presence of Perforated Synapses in a Triple-Transgenic Mouse Model of Alzheimer's Disease. Rejuvenation Research, 2008, 11, 309-313.	0.9	18
88	Acidosis enhances toxicity induced by kainate and zinc exposure in aged cultured astrocytes. Biogerontology, 2006, 7, 367-374.	2.0	17
89	Decreased Numeric Density of Succinic Dehydrogenase-Positive Mitochondria in CA1 Pyramidal Neurons of 3xTg-AD Mice. Rejuvenation Research, 2010, 13, 144-147.	0.9	16
90	Glutamate receptor-mediated calcium entry in neurons derived from P19 embryonal carcinoma cells. Journal of Neuroscience Research, 1996, 45, 226-236.	1.3	15

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91	High Î³â€Aminobutyric Acid Content Within the Medial Prefrontal Cortex Is a Functional Signature of Somatic Symptoms Disorder in Patients With Parkinson's Disease. Movement Disorders, 2020, 35, 2184-2192.	2.2	15
92	Mild Acidosis Enhances AMPA Receptor-Mediated Intracellular Zinc Mobilization in Cortical Neurons. Molecular Medicine, 2007, 13, 356-361.	1.9	14
93	The thiol-modifying agent N-ethylmaleimide elevates the cytosolic concentration of free Zn2+ but not of Ca2+ in murine cortical neurons. Cell Calcium, 2010, 48, 37-43.	1.1	14
94	The Italian dementia with Lewy bodies study group (DLB-SINdem): toward a standardization of clinical procedures and multicenter cohort studies design. Neurological Sciences, 2017, 38, 83-91.	0.9	11
95	Left hippocampusâ€“amygdala complex macroâ€•and microstructural variation is associated with <scp>BDNF</scp> plasma levels in healthy elderly individuals. Brain and Behavior, 2015, 5, e00334.	1.0	10
96	Suicidal Behavior and Club Drugs in Young Adults. Brain Sciences, 2021, 11, 490.	1.1	10
97	Delirium in COVID-19 patients: a multicentric observational study in Italy. Neurological Sciences, 2021, 42, 3981-3988.	0.9	10
98	Alzheimer's Disease, time to turn the tide. Aging, 2018, 10, 2537-2538.	1.4	10
99	Functional neurological disorder and somatic symptom disorder in Parkinson's disease. Journal of the Neurological Sciences, 2022, 433, 120017.	0.3	10
100	Cerebral venous thrombosis without thrombocytopenia after a single dose of COVID-19 (Ad26.COV2.S) vaccine injection: a case report. Neurological Sciences, 2022, 43, 2951-2956.	0.9	10
101	Perampanel enhances the cardiovagal tone and heart rate variability (HRV) in patients with drug-resistant temporal lobe epilepsy. Seizure: the Journal of the British Epilepsy Association, 2022, 99, 16-23.	0.9	10
102	Characterisation of element profile changes induced by long-term dietary supplementation of zinc in the brain and cerebellum of 3xTg-AD mice by alternated cool and normal plasma ICP-MS. Metallomics, 2012, 4, 1321.	1.0	9
103	Inhibition of de novo ceramide biosynthesis affects aging phenotype in an in vitro model of neuronal senescence. Aging, 2019, 11, 6336-6357.	1.4	9
104	Modafinil-Induced Changes in Functional Connectivity in the Cortex and Cerebellum of Healthy Elderly Subjects. Frontiers in Aging Neuroscience, 2017, 9, 85.	1.7	8
105	Influence of APOE and RNF219 on Behavioral and Cognitive Features of Female Patients Affected by Mild Cognitive Impairment or Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2018, 10, 92.	1.7	8
106	Structural effects of stabilization and complexation of a zinc-deficient superoxide dismutase. Heliyon, 2021, 7, e06100.	1.4	8
107	Preexisting Bipolar Disorder Influences the Subsequent Phenotype of Parkinson's Disease. Movement Disorders, 2021, 36, 2840-2852.	2.2	8
108	Non-Ceruloplasmin Copper as a Stratification Biomarker of Alzheimerâ€™s Disease Patients: How to Measure and Use It. Current Alzheimer Research, 2021, 18, 533-545.	0.7	8

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109	Subclinical Cognitive and Neuropsychiatric Correlates and Hippocampal Volume Features of Brain White Matter Hyperintensity in Healthy People. Journal of Personalized Medicine, 2020, 10, 172.	1.1	7
110	A Machine Learning-Based Holistic Approach to Predict the Clinical Course of Patients within the Alzheimerâ€™s Disease Spectrum1. Journal of Alzheimer's Disease, 2022, 85, 1639-1655.	1.2	7
111	The factitious/malingering continuum and its burden on public health costs: a review and experience in an Italian neurology setting. Neurological Sciences, 2021, 42, 4073-4083.	0.9	6
112	Ascertainment bias in dementias: a secondary to tertiary centre analysis in Central Italy and conceptual review. Aging Clinical and Experimental Research, 2013, 25, 265-274.	1.4	5
113	Metal homeostasis in dementia. Free Radical Biology and Medicine, 2014, 75, S9.	1.3	5
114	Acting Before; A Combined Strategy to Counteract the Onset and Progression of Dementia. Current Alzheimer Research, 2021, 17, 790-804.	0.7	5
115	Posterior Variant of Alien Limb Syndrome with Sudden Clinical Onset as Self-Hitting Associated with Thalamic Stroke. Case Reports in Neurology, 2020, 12, 35-39.	0.3	4
116	A Critical Review of Alien Limb-Related Phenomena and Implications for Functional Magnetic Resonance Imaging Studies. Frontiers in Neurology, 2021, 12, 661130.	1.1	4
117	Editorial: Excitotoxicity Turns 50. The Death That Never Dies. Frontiers in Neuroscience, 2021, 15, 831809.	1.4	4
118	Anti N-methyl-D-aspartate receptor (NMDAr) encephalitis during pregnancy: A case report. Epilepsy and Behavior Reports, 2022, 19, 100535.	0.5	4
119	Long-Term Dynamic Changes of NMDA Receptors Following an Excitotoxic Challenge. Cells, 2022, 11, 911.	1.8	4
120	Zn2+, mitochondria and neuronal injury. Journal of Neurochemistry, 2003, 85, 10-10.	2.1	3
121	Levetiracetam Prophylaxis Therapy for Brain Tumor-Related Epilepsy (BTRE) Is Associated With a Higher Psychiatric Burden. Frontiers in Neurology, 2021, 12, 806839.	1.1	3
122	Zinc Dyshomeostasis in Neuronal Injury. , 2005, , 139-157.		1
123	Data of safety in a single-center alemtuzumab treated population. Data in Brief, 2020, 29, 105341.	0.5	1
124	Zinc Homeostasis and Brain Injury. , 2007, , 221-244.		1
125	Heart rate variability is reduced during the menstrual phase in women with catamenial C1-type temporal lobe epilepsy. Epilepsy and Behavior, 2022, 127, 108508.	0.9	1
126	Carnosine as a modulator of endogenous Zn2+ effects. Trends in Pharmacological Sciences, 2001, 22, 113.	4.0	0

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127	Cell Signaling in Health and Disease: Think Zinc!. Molecular Medicine, 2007, 13, v-v.	1.9	0
128	Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to AÎ²â€“Zn and AÎ²â€“Cu complexes. Future Neurology, 2012, 7, 483-497.	0.9	0
129	Minocyclineâ€”A Lesson From a Failure. JAMA Neurology, 2020, 77, 1037.	4.5	0
130	An Atypical Presentation of CLIPPERS, a Challenging Diagnosis of Reversible Early-Onset Dementia. Case Reports in Neurology, 2021, 12, 307-313.	0.3	0
131	Exenatide Reverts the High-Fat-Diet-Induced Impairment of BDNF Signaling and Inflammatory Response in an Animal Model of Alzheimer's Disease. SSRN Electronic Journal, 0, , .	0.4	0
132	Alzheimerâ€™s disease, the road ahead. Journal of Cellular Neuroscience and Oxidative Stress, 2019, 11, 6-6.	0.1	0