Fabio Di Domenico

List of Publications by Year
in descending order

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116 papers	12,213 citations	41323 49 h-index	26591 107 g-index
135 all docs	135 docs citations	135 times ranked	21952 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition	4.3	1,430
3	Elevated risk of type 2 diabetes for development of Alzheimer disease: A key role for oxidative stress in brain. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 1693-1706.	1.8	286
4	Alteration of mTOR signaling occurs early in the progression of Alzheimer disease (AD): analysis of brain from subjects with preâ€clinical AD, amnestic mild cognitive impairment and lateâ€stage AD. Journal of Neurochemistry, 2015, 133, 739-749.	2.1	276
5	mTOR signaling in aging and neurodegeneration: At the crossroad between metabolism dysfunction and impairment of autophagy. Neurobiology of Disease, 2015, 84, 39-49.	2.1	261
6	Aberrant insulin signaling in Alzheimer's disease: current knowledge. Frontiers in Neuroscience, 2015, 9, 204.	1.4	229
7	Role of 4-hydroxy-2-nonenal (HNE) in the pathogenesis of alzheimer disease and other selected age-related neurodegenerative disorders. Free Radical Biology and Medicine, 2017, 111, 253-261.	1.3	190
8	Redox proteomics identification of 4â€hydroxynonenalâ€modified brain proteins in Alzheimer's disease: Role of lipid peroxidation in Alzheimer's disease pathogenesis. Proteomics - Clinical Applications, 2009, 3, 682-693.	0.8	172
9	Neuropathological role of PI3K/Akt/mTOR axis in Down syndrome brain. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 1144-1153.	1.8	127
10	Impairment of proteostasis network in Down syndrome prior to the development of Alzheimer's disease neuropathology: Redox proteomics analysis of human brain. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1249-1259.	1.8	109
11	The Janus face of the heme oxygenase/biliverdin reductase system in Alzheimer disease: It's time for reconciliation. Neurobiology of Disease, 2014, 62, 144-159.	2.1	109
12	Heme oxygenase-1 posttranslational modifications in the brain of subjects with Alzheimer disease and mild cognitive impairment. Free Radical Biology and Medicine, 2012, 52, 2292-2301.	1.3	108
13	Antioxidants in cervical cancer: Chemopreventive and chemotherapeutic effects of polyphenols. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 737-747.	1.8	107
14	Redox proteomics in aging rat brain: Involvement of mitochondrial reduced glutathione status and mitochondrial protein oxidation in the aging process. Journal of Neuroscience Research, 2010, 88, 3498-3507.	1.3	99
15	Mass spectrometry and redox proteomics: Applications in disease. Mass Spectrometry Reviews, 2014, 33, 277-301.	2.8	98
16	Impairment of biliverdin reductase-A promotes brain insulin resistance in Alzheimer disease: A new paradigm. Free Radical Biology and Medicine, 2016, 91, 127-142.	1.3	98
17	The Triangle of Death in Alzheimer's Disease Brain: The Aberrant Cross-Talk Among Energy Metabolism, Mammalian Target of Rapamycin Signaling, and Protein Homeostasis Revealed by Redox Proteomics. Antioxidants and Redox Signaling, 2017, 26, 364-387.	2.5	97
18	Protein levels of heat shock proteins 27, 32, 60, 70, 90 and thioredoxin-1 in amnestic mild cognitive impairment: An investigation on the role of cellular stress response in the progression of Alzheimer disease. Brain Research, 2010, 1333, 72-81.	1.1	94

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19	Redox proteomics analysis to decipher the neurobiology of Alzheimer-like neurodegeneration: overlaps in Down's syndrome and Alzheimer's disease brain. Biochemical Journal, 2014, 463, 177-189.	1.7	93
20	Proteomics-Determined Differences in the Concanavalin-A-Fractionated Proteome of Hippocampus and Inferior Parietal Lobule in Subjects with Alzheimerâ€™s Disease and Mild Cognitive Impairment: Implications for Progression of AD. Journal of Proteome Research, 2009, 8, 471-482.	1.8	91
21	It Is All about (U)biquitin: Role of Altered Ubiquitin-Proteasome System and UCHL1 in Alzheimer Disease. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-12.	1.9	88
22	Redox proteomics analysis of HNE-modified proteins in Down syndrome brain: clues for understanding the development of Alzheimer disease. Free Radical Biology and Medicine, 2014, 71, 270-280.	1.3	87
23	Strategy to reduce free radical species in Alzheimerâ€™s disease: an update of selected antioxidants. Expert Review of Neurotherapeutics, 2015, 15, 19-40.	1.4	87
24	Long-term high-dose atorvastatin decreases brain oxidative and nitrosative stress in a preclinical model of Alzheimer disease: A novel mechanism of action. Pharmacological Research, 2011, 63, 172-180.	3.1	86
25	Oxidative stress occurs early in Down syndrome pregnancy: A redox proteomics analysis of amniotic fluid. Proteomics - Clinical Applications, 2011, 5, 167-178.	0.8	86
26	Quantitative proteomics analysis of phosphorylated proteins in the hippocampus of Alzheimer's disease subjects. Journal of Proteomics, 2011, 74, 1091-1103.	1.2	86
27	Oxidative and Nitrosative Modifications of Biliverdin Reductase-A in the Brain of Subjects with Alzheimer's Disease and Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2011, 25, 623-633.	1.2	85
28	Biliverdin reductase-A protein levels and activity in the brains of subjects with Alzheimer disease and mild cognitive impairment. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 480-487.	1.8	77
29	Intranasal rapamycin ameliorates Alzheimer-like cognitive decline in a mouse model of Down syndrome. Translational Neurodegeneration, 2018, 7, 28.	3.6	76
30	Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients. Free Radical Biology and Medicine, 2016, 91, 1-9.	1.3	74
31	Statins more than cholesterol lowering agents in Alzheimer disease: Their pleiotropic functions as potential therapeutic targets. Biochemical Pharmacology, 2014, 88, 605-616.	2.0	73
32	Aberrant protein phosphorylation in Alzheimer disease brain disturbs pro-survival and cell death pathways. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1871-1882.	1.8	73
33	Involvement of Oxidative Stress in Occurrence of Relapses in Multiple Sclerosis: The Spectrum of Oxidatively Modified Serum Proteins Detected by Proteomics and Redox Proteomics Analysis. PLoS ONE, 2013, 8, e65184.	1.1	73
34	Glutathionylation of the Pro-apoptotic Protein p53 in Alzheimerâ€™s Disease Brain: Implications for AD Pathogenesis. Neurochemical Research, 2009, 34, 727-733.	1.6	72
35	Inhibition of lipid peroxidation and protein oxidation by endogenous and exogenous antioxidants in rat brain microsomes in vitro. Neuroscience Letters, 2012, 518, 101-105.	1.0	72
36	mTOR in Down syndrome: Role in AÃŸ and tau neuropathology and transition to Alzheimer disease-like dementia. Free Radical Biology and Medicine, 2018, 114, 94-101.	1.3	72

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37	Biliverdin Reductase-A Mediates the Beneficial Effects of Intranasal Insulin in Alzheimer Disease. Molecular Neurobiology, 2019, 56, 2922-2943.	1.9	70
38	Effects of UVB-induced oxidative stress on protein expression and specific protein oxidation in normal human epithelial keratinocytes: a proteomic approach. Proteome Science, 2010, 8, 13.	0.7	64
39	Atorvastatin treatment in a dog preclinical model of Alzheimer's disease leads to up-regulation of haem oxygenase-1 and is associated with reduced oxidative stress in brain. International Journal of Neuropsychopharmacology, 2012, 15, 981-987.	1.0	63
40	Oxidative Stress in HPV-Driven Viral Carcinogenesis: Redox Proteomics Analysis of HPV-16 Dysplastic and Neoplastic Tissues. PLoS ONE, 2012, 7, e34366.	1.1	63
41	Biliverdin reductaseâ€A: a novel drug target for atorvastatin in a dog preâ€clinical model of Alzheimer disease. Journal of Neurochemistry, 2012, 120, 135-146.	2.1	63
42	Decreased expression and increased oxidation of plasma haptoglobin in Alzheimer disease: Insights from redox proteomics. Free Radical Biology and Medicine, 2012, 53, 1868-1876.	1.3	59
43	mTOR in Alzheimer disease and its earlier stages: Links to oxidative damage in the progression of this dementing disorder. Free Radical Biology and Medicine, 2021, 169, 382-396.	1.3	58
44	Circulating biomarkers of protein oxidation for Alzheimer disease: Expectations within limits. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1785-1795.	1.1	56
45	Targeting mTOR to reduce Alzheimer-related cognitive decline: from current hits to future therapies. Expert Review of Neurotherapeutics, 2017, 17, 33-45.	1.4	55
46	Loss of biliverdin reductase-A favors Tau hyper-phosphorylation in Alzheimer's disease. Neurobiology of Disease, 2019, 125, 176-189.	2.1	55
47	Brain insulin resistance triggers early onset Alzheimer disease in Down syndrome. Neurobiology of Disease, 2020, 137, 104772.	2.1	54
48	Oxidative Damage in Rat Brain During Aging: Interplay Between Energy and Metabolic Key Target Proteins. Neurochemical Research, 2010, 35, 2184-2192.	1.6	53
49	Bach1 Overexpression in Down Syndrome Correlates with the Alteration of the HO-1/BVR-A System: Insights for Transition to Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 44, 1107-1120.	1.2	53
50	The interplay among oxidative stress, brain insulin resistance and AMPK dysfunction contribute to neurodegeneration in type 2 diabetes and Alzheimer disease. Free Radical Biology and Medicine, 2021, 176, 16-33.	1.3	53
51	Unraveling the complexity of neurodegeneration in brains of subjects with Down syndrome: Insights from proteomics. Proteomics - Clinical Applications, 2014, 8, 73-85.	0.8	52
52	Pharmacologic approaches against Advanced Glycation End Products (AGEs) in diabetic cardiovascular disease. Research in Cardiovascular Medicine, 2015, 4, 5.	0.2	50
53	Biliverdin reductase-A impairment links brain insulin resistance with increased AÎ² production in an animal model of aging: Implications for Alzheimer disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3181-3194.	1.8	49
54	Restoration of aberrant mTOR signaling by intranasal rapamycin reduces oxidative damage: Focus on HNE-modified proteins in a mouse model of down syndrome. Redox Biology, 2019, 23, 101162.	3.9	46

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55	Targeting Mitochondria in Alzheimer Disease: Rationale and Perspectives. CNS Drugs, 2019, 33, 957-969.	2.7	45
56	HO-1/BVR-A System Analysis in Plasma from Probable Alzheimer's Disease and Mild Cognitive Impairment Subjects: A Potential Biochemical Marker for the Prediction of the Disease. Journal of Alzheimer's Disease, 2012, 32, 277-289.	1.2	43
57	Redox Proteomics Analyses of the Influence of Co-Expression of Wild-Type or Mutated LRRK2 and Tau on C. elegans Protein Expression and Oxidative Modification: Relevance to Parkinson Disease. Antioxidants and Redox Signaling, 2012, 17, 1490-1506.	2.5	43
58	Cathepsin D as a therapeutic target in Alzheimerâ€™s disease. Expert Opinion on Therapeutic Targets, 2016, 20, 1393-1395.	1.5	41
59	Protective effect of ferulic acid ethyl ester against oxidative stress mediated by UVB irradiation in human epidermal melanocytes. Free Radical Research, 2009, 43, 365-375.	1.5	38
60	Polyubiquitinylation Profile in Down Syndrome Brain Before and After the Development of Alzheimer Neuropathology. Antioxidants and Redox Signaling, 2017, 26, 280-298.	2.5	38
61	Proteomic identification of specifically carbonylated brain proteins in APPNLh/APPNLhÃ—PS-1P264L/PS-1P264L human double mutant knock-in mice model of Alzheimer disease as a function of age. Journal of Proteomics, 2011, 74, 2430-2440.	1.2	36
62	Oxidative Stress and Proteostasis Network: Culprit and Casualty of Alzheimerâ€™s-Like Neurodegeneration. Advances in Geriatrics, 2014, 2014, 1-14.	1.6	36
63	Activation of p53 in Down Syndrome and in the Ts65Dn Mouse Brain is Associated with a Pro-Apoptotic Phenotype. Journal of Alzheimer's Disease, 2016, 52, 359-371.	1.2	35
64	Increased Mammalian Target of Rapamycin Signaling Contributes to the Accumulation of Protein Oxidative Damage in a Mouse Model of Down's Syndrome. Neurodegenerative Diseases, 2016, 16, 62-68.	0.8	35
65	The wheat germ agglutininâ€fractionated proteome of subjects with Alzheimer's disease and mild cognitive impairment hippocampus and inferior parietal lobule: Implications for disease pathogenesis and progression. Journal of Neuroscience Research, 2010, 88, 3566-3577.	1.3	34
66	Lack of p53 Decreases Basal Oxidative Stress Levels in the Brain Through Upregulation of Thioredoxin-1, Biliverdin Reductase-A, Manganese Superoxide Dismutase, and Nuclear Factor Kappa-B. Antioxidants and Redox Signaling, 2012, 16, 1407-1420.	2.5	30
67	Sex differences in brain proteomes of neuronâ€specific STAT3â€null mice after cerebral ischemia/reperfusion. Journal of Neurochemistry, 2012, 121, 680-692.	2.1	29
68	Poly-ubiquitin profile in Alzheimer disease brain. Neurobiology of Disease, 2018, 118, 129-141.	2.1	29
69	Proteomic identification of altered protein O-GlcNAcylation in a triple transgenic mouse model of Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3309-3321.	1.8	29
70	Reduced biliverdin reductase-A levels are associated with early alterations of insulin signaling in obesity. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1490-1501.	1.8	29
71	Insulin resistance, oxidative stress and mitochondrial defects in Ts65dn mice brain: A harmful synergistic path in down syndrome. Free Radical Biology and Medicine, 2021, 165, 152-170.	1.3	26
72	Doxorubicin-Induced Thymus Senescence. Journal of Proteome Research, 2010, 9, 6232-6241.	1.8	25

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73	Proteomics analysis of protein expression and specific protein oxidation in human papillomavirus transformed keratinocytes upon UVB irradiation. Journal of Cellular and Molecular Medicine, 2009, 13, 1809-1822.	1.6	23
74	Identification of changes in neuronal function as a consequence of aging and tauopathic neurodegeneration using a novel and sensitive magnetic resonance imaging approach. Neurobiology of Aging, 2017, 56, 78-86.	1.5	23
75	Involvement of stat3 in mouse brain development and sexual dimorphism: A proteomics approach. Brain Research, 2010, 1362, 1-12.	1.1	21
76	Chronic PERK induction promotes Alzheimer-like neuropathology in Down syndrome: Insights for therapeutic intervention. Progress in Neurobiology, 2021, 196, 101892.	2.8	21
77	Protein nitration profile of CD3+ lymphocytes from Alzheimer disease patients: Novel hints on immunosenescence and biomarker detection. Free Radical Biology and Medicine, 2018, 129, 430-439.	1.3	20
78	Advanced glycation end products in diabetic patients with optimized glycaemic control and their effects on endothelial reactivity: possible implications in venous graft failure. Diabetes/Metabolism Research and Reviews, 2009, 25, 420-426.	1.7	19
79	Early and Selective Activation and Subsequent Alterations to the Unfolded Protein Response in Down Syndrome Mouse Models. Journal of Alzheimer's Disease, 2018, 62, 347-359.	1.2	19
80	Stress Responses in Down Syndrome Neurodegeneration: State of the Art and Therapeutic Molecules. Biomolecules, 2021, 11, 266.	1.8	19
81	Usefulness of Preprocedural Levels of Advanced Glycation End Products to Predict Restenosis in Patients With Controlled Diabetes Mellitus Undergoing Drug-Eluting Stent Implantation for Stable Angina Pectoris (From the Prospective ARMYDA-AGEs Study). American Journal of Cardiology, 2013, 112, 21-26.	0.7	18
82	Basal brain oxidative and nitrative stress levels are finely regulated by the interplay between superoxide dismutase 2 and p53. Journal of Neuroscience Research, 2015, 93, 1728-1739.	1.3	18
83	Serum proteomics in patients with diagnosis of abdominal aortic aneurysm. Cardiovascular Pathology, 2012, 21, 283-290.	0.7	17
84	BVR-A Deficiency Leads to Autophagy Impairment through the Dysregulation of AMPK/mTOR Axis in the Brainâ€"Implications for Neurodegeneration. Antioxidants, 2020, 9, 671.	2.2	17
85	The Anti-Diabetic Drug Metformin Rescues Aberrant Mitochondrial Activity and Restrains Oxidative Stress in a Female Mouse Model of Rett Syndrome. Journal of Clinical Medicine, 2020, 9, 1669.	1.0	17
86	Multiple Herpes Simplex Virus-1 (HSV-1) Reactivations Induce Protein Oxidative Damage in Mouse Brain: Novel Mechanisms for Alzheimerâ€™s Disease Progression. Microorganisms, 2020, 8, 972.	1.6	17
87	High-Fat Diet Leads to Reduced Protein O-GlcNAcylation and Mitochondrial Defects Promoting the Development of Alzheimerâ€™s Disease Signatures. International Journal of Molecular Sciences, 2021, 22, 3746.	1.8	17
88	Aberrant crosstalk between insulin signaling and mTOR in young Down syndrome individuals revealed by neuronalâ€derived extracellular vesicles. Alzheimer's and Dementia, 2022, 18, 1498-1510.	0.4	16
89	Expression of human papilloma virus type 16 E5 protein in amelanotic melanoma cells regulates endo-cellular pH and restores tyrosinase activity. Journal of Experimental and Clinical Cancer Research, 2009, 28, 4.	3.5	15
90	Therapeutic potential of rescuing protein O-GlcNAcylation in tau-related pathologies. Expert Review of Neurotherapeutics, 2019, 19, 1-3.	1.4	15

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91	Autoantibodies Profile in Matching CSF and Serum from AD and aMCI patients: Potential Pathogenic Role and Link to Oxidative Damage. Current Alzheimer Research, 2016, 13, 112-122.	0.7	15
92	Proteomics strategies to analyze HPV-transformed cells: relevance to cervical cancer. Expert Review of Proteomics, 2013, 10, 461-472.	1.3	12
93	The Dysregulation of OGT/OGA Cycle Mediates Tau and APP Neuropathology in Down Syndrome. Neurotherapeutics, 2021, 18, 340-363.	2.1	12
94	Biliverdin Reductase-A correlates with inducible nitric oxide synthasein in atorvastatin treated aged canine brain. Neural Regeneration Research, 2013, 8, 1925-37.	1.6	11
95	Simvastatin attenuates the endothelial pro-thrombotic shift in saphenous vein grafts induced by Advanced glycation endproducts. Thrombosis Research, 2014, 133, 418-425.	0.8	10
96	Shining a light on defective autophagy by proteomics approaches: implications for neurodegenerative illnesses. Expert Review of Proteomics, 2019, 16, 951-964.	1.3	9
97	CAPE and its synthetic derivative VP961 restore BACH1/NRF2 axis in Down Syndrome. Free Radical Biology and Medicine, 2022, 183, 1-13.	1.3	9
98	Protein Oxidative Damage in UV-Related Skin Cancer and Dysplastic Lesions Contributes to Neoplastic Promotion and Progression. Cancers, 2020, 12, 110.	1.7	8
99	Redox Proteomics in Human Biofluids: Sample Preparation, Separation and Immunochemical Tagging for Analysis of Protein Oxidation. Methods in Molecular Biology, 2016, 1303, 391-403.	0.4	7
100	Proteomic analysis for the study of amniotic fluid protein composition. Journal of Prenatal Medicine, 2009, 3, 39-41.	0.2	7
101	Introductory Editorial: Drug-Eluting Stents or Drug-Eluting Grafts? Insights from Proteomic Analysis. Drug Target Insights, 2016, 10s1, DTI.S41240.	0.9	6
102	Broad Kinase Inhibition Mitigates Early Neuronal Dysfunction in Tauopathy. International Journal of Molecular Sciences, 2021, 22, 1186.	1.8	6
103	Proteomics Study of Peripheral Blood Mononuclear Cells in Down Syndrome Children. Antioxidants, 2020, 9, 1112.	2.2	5
104	Redox proteomic analysis of serum from aortic anerurysm patients: insights on oxidation of specific protein target. Molecular BioSystems, 2016, 12, 2168-2177.	2.9	4
105	PERK inhibition promotes the rescue of protein translation and Nrf2â€related antioxidant response. Alzheimer's and Dementia, 2020, 16, e041867.	0.4	1
106	Pharmacologic approaches against Advanced Glycation End Products (AGEs) in diabetic cardiovascular disease. Research in Cardiovascular Medicine, 2015, 4, 5.	0.2	1
107	Analysis of HO-1/BVR post translational modifications as potential plasma biomarker of Alzheimerâ€™s disease (AD) pathology. Free Radical Biology and Medicine, 2012, 53, S172.	1.3	0
108	Oxidative Signature of Cerebrospinal Fluid from Mild Cognitive Impairment and Alzheimer Disease Patients. Free Radical Biology and Medicine, 2015, 87, S146.	1.3	0

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109	Improvement of BVR-A Activity Ameliorates Brain Insulin Resistance in Alzheimer Disease Following Intranasal Insulin Administration. Free Radical Biology and Medicine, 2016, 100, S157-S158.	1.3	0
110	[P4â€“032]: BILIVERDIN REDUCTASEâ€A MEDIATES THE BENEFICIAL EFFECTS OF INTRANASAL INSULIN ADMINISTRATION ON AD PATHOLOGY IN THE BRAIN OF 3XTGâ€AD MICE. Alzheimer's and Dementia, 2017, 13, P1267.	0.4	0
111	Aberrant protein Oâ€GlcNAcylation drives ADâ€like neurodegeneration in DS mice. Alzheimer's and Dementia, 2020, 16, e039361.	0.4	0
112	High fat diet leads to aberrant protein Oâ€GlcNAcylation and to the development of Alzheimer disease signatures in mice. Alzheimer's and Dementia, 2020, 16, e039449.	0.4	0
113	Loss of biliverdin reductaseâ€a (BVRâ€A) impairs beneficial effects of CNS insulin on brain energy metabolism favoring the development of Alzheimer's disease (AD) neuropathology. Alzheimer's and Dementia, 2020, 16, e039511.	0.4	0
114	Oxidative stress and mTOR in Down syndrome brain: Link to Alzheimer's dysmetabolism, neuropathology, and possible therapies. , 2022, , 75-96.		0
115	Peripheral Biomarkers of Oxidative Stress in Alzheimerâ€™s Disease. Oxidative Stress in Applied Basic Research and Clinical Practice, 2013, , 185-199.	0.4	0
116	The Interplay Among Oxidative Stress, Brain Insulin Resistance and AMPK Dysfunction Contribute to Neurodegeneration in Type 2 Diabetes and Alzheimer Disease. Free Radical Biology and Medicine, 2022, 180, s105.	1.3	0