

# Robert D Moir

## List of Publications by Year in descending order

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67  
papers

16,535  
citations

41258

49  
h-index

114278

63  
g-index

72  
all docs

72  
docs citations

72  
times ranked

13983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment with a Copper-Zinc Chelator Markedly and Rapidly Inhibits $\beta$ -Amyloid Accumulation in Alzheimer's Disease Transgenic Mice. <i>Neuron</i> , 2001, 30, 665-676.	3.8	1,419
2	The $\beta$ Peptide of Alzheimer's Disease Directly Produces Hydrogen Peroxide through Metal Ion Reduction. <i>Biochemistry</i> , 1999, 38, 7609-7616.	1.2	1,098
3	Dramatic Aggregation of Alzheimer $\beta$ by Cu(II) Is Induced by Conditions Representing Physiological Acidosis. <i>Journal of Biological Chemistry</i> , 1998, 273, 12817-12826.	1.6	935
4	The Alzheimer's Disease-Associated Amyloid $\beta$ -Protein Is an Antimicrobial Peptide. <i>PLoS ONE</i> , 2010, 5, e9505.	1.1	868
5	Amyloid- $\beta$ peptide protects against microbial infection in mouse and worm models of Alzheimer's disease. <i>Science Translational Medicine</i> , 2016, 8, 340ra72.	5.8	816
6	Cu(II) Potentiation of Alzheimer $\beta$ Neurotoxicity. <i>Journal of Biological Chemistry</i> , 1999, 274, 37111-37116.	1.6	688
7	Chronic Traumatic Encephalopathy in Blast-Exposed Military Veterans and a Blast Neurotrauma Mouse Model. <i>Science Translational Medicine</i> , 2012, 4, 134ra60.	5.8	684
8	Iron-Export Ferroxidase Activity of $\beta$ -Amyloid Precursor Protein Is Inhibited by Zinc in Alzheimer's Disease. <i>Cell</i> , 2010, 142, 857-867.	13.5	597
9	Alzheimer's associated presenilins 1 and 2 : Neuronal expression in brain and localization to intracellular membranes in mammalian cells. <i>Nature Medicine</i> , 1996, 2, 224-229.	15.2	573
10	Characterization of Copper Interactions with Alzheimer Amyloid $\beta$ Peptides. <i>Journal of Neurochemistry</i> , 2008, 75, 1219-1233.	2.1	566
11	Metalloenzyme-like Activity of Alzheimer's Disease $\beta$ -Amyloid. <i>Journal of Biological Chemistry</i> , 2002, 277, 40302-40308.	1.6	536
12	LDL receptor-related protein, a multifunctional ApoE receptor, binds secreted $\beta$ -amyloid precursor protein and mediates its degradation. <i>Cell</i> , 1995, 82, 331-340.	13.5	499
13	Alzheimer's Disease-Associated $\beta$ -Amyloid Is Rapidly Seeded by Herpesviridae to Protect against Brain Infection. <i>Neuron</i> , 2018, 99, 56-63.e3.	3.8	470
14	The amyloid protein precursor of Alzheimer's disease is a mediator of the effects of nerve growth factor on neurite outgrowth. <i>Neuron</i> , 1992, 9, 129-137.	3.8	450
15	Redox-Active Metals, Oxidative Stress, and Alzheimer's Disease Pathology. <i>Annals of the New York Academy of Sciences</i> , 2004, 1012, 153-163.	1.8	381
16	Copper Mediates Dityrosine Cross-Linking of Alzheimer's Amyloid- $\beta$ . <i>Biochemistry</i> , 2004, 43, 560-568.	1.2	362
17	Uptake of HIV-1 Tat protein mediated by low-density lipoprotein receptor-related protein disrupts the neuronal metabolic balance of the receptor ligands. <i>Nature Medicine</i> , 2000, 6, 1380-1387.	15.2	360
18	Cytosolic $\beta$ -amyloid deposition and supranuclear cataracts in lenses from people with Alzheimer's disease. <i>Lancet</i> , The, 2003, 361, 1258-1265.	6.3	323

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19	The antimicrobial protection hypothesis of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 1602-1614.	0.4	305
20	Zinc-induced Alzheimer's A $\beta$ 40 Aggregation Is Mediated by Conformational Factors. <i>Journal of Biological Chemistry</i> , 1997, 272, 26464-26470.	1.6	287
21	The common inhalation anesthetic isoflurane induces caspase activation and increases amyloid $\beta$ -protein level in vivo. <i>Annals of Neurology</i> , 2008, 64, 618-627.	2.8	281
22	REVIEW The Gene Defects Responsible for Familial Alzheimer's Disease. <i>Neurobiology of Disease</i> , 1996, 3, 159-168.	2.1	268
23	The ACAT Inhibitor CP-113,818 Markedly Reduces Amyloid Pathology in a Mouse Model of Alzheimer's Disease. <i>Neuron</i> , 2004, 44, 227-238.	3.8	249
24	The Common Inhalational Anesthetic Sevoflurane Induces Apoptosis and Increases $\beta$ -Amyloid Protein Levels. <i>Archives of Neurology</i> , 2009, 66, 620-31.	4.9	228
25	Clearance of Alzheimer's A $\beta$ Peptide. <i>Neuron</i> , 2004, 43, 605-608.	3.8	224
26	The Inhalation Anesthetic Isoflurane Induces a Vicious Cycle of Apoptosis and Amyloid $\beta$ -Protein Accumulation. <i>Journal of Neuroscience</i> , 2007, 27, 1247-1254.	1.7	224
27	Trace metal contamination initiates the apparent auto-aggregation, amyloidosis, and oligomerization of Alzheimer's A $\beta$ peptides. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 954-960.	1.1	218
28	Potential late-onset Alzheimer's disease-associated mutations in the ADAM10 gene attenuate $\beta$ -secretase activity. <i>Human Molecular Genetics</i> , 2009, 18, 3987-3996.	1.4	206
29	Endoproteolytic Cleavage and Proteasomal Degradation of Presenilin 2 in Transfected Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 11006-11010.	1.6	198
30	Near-infrared fluorescence molecular imaging of amyloid beta species and monitoring therapy in animal models of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9734-9739.	3.3	187
31	Preliminary studies of a novel bifunctional metal chelator targeting Alzheimer's amyloidogenesis. <i>Experimental Gerontology</i> , 2004, 39, 1641-1649.	1.2	131
32	Differential Effects of Apolipoprotein E Isoforms on Metal-Induced Aggregation of A $\beta$ Using Physiological Concentrations. <i>Biochemistry</i> , 1999, 38, 4595-4603.	1.2	125
33	Alzheimer's Disease Amyloid- $\beta$ Links Lens and Brain Pathology in Down Syndrome. <i>PLoS ONE</i> , 2010, 5, e10659.	1.1	122
34	Metal exposure and Alzheimer's pathogenesis. <i>Journal of Structural Biology</i> , 2006, 155, 45-51.	1.3	121
35	Isoflurane-Induced Apoptosis: A Potential Pathogenic Link Between Delirium and Dementia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1300-1306.	1.7	108
36	Characterization of a Drosophila Alzheimer's Disease Model: Pharmacological Rescue of Cognitive Defects. <i>PLoS ONE</i> , 2011, 6, e20799.	1.1	107

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37	Alzheimer's Disease, $\beta$ -Amyloid Protein and Zinc. <i>Journal of Nutrition</i> , 2000, 130, 1488S-1492S.	1.3	102
38	Presenilin 2 Interacts with Sorcin, a Modulator of the Ryanodine Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 14440-14445.	1.6	98
39	Relative Increase in Alzheimer's Disease of Soluble Forms of Cerebral $\beta$ Amyloid Protein Precursor Containing the Kunitz Protease Inhibitory Domain. <i>Journal of Biological Chemistry</i> , 1998, 273, 5013-5019.	1.6	95
40	The Inhalation Anesthetic Desflurane Induces Caspase Activation and Increases Amyloid $\beta$ -Protein Levels under Hypoxic Conditions. <i>Journal of Biological Chemistry</i> , 2008, 283, 11866-11875.	1.6	92
41	Autoantibodies to Redox-modified Oligomeric $\beta$ Are Attenuated in the Plasma of Alzheimer's Disease Patients. <i>Journal of Biological Chemistry</i> , 2005, 280, 17458-17463.	1.6	83
42	A protease activity associated with acetylcholinesterase releases the membrane-bound form of the amyloid protein precursor of Alzheimer's disease. <i>Biochemistry</i> , 1991, 30, 10795-10799.	1.2	78
43	Cerebrospinal Fluid Levels of Amyloid Precursor Protein and Amyloid $\beta$ -Peptide in Alzheimer's Disease and Major Depression – Inverse Correlation with Dementia Severity. <i>European Neurology</i> , 1998, 39, 111-118.	0.6	77
44	Response. <i>Science</i> , 1995, 268, 1921-1923.	6.0	63
45	Alzheimer's disease drug discovery targeted to the APP mRNA 5' Untranslated region. <i>Journal of Molecular Neuroscience</i> , 2002, 19, 77-82.	1.1	58
46	An abnormality of plasma amyloid protein precursor in Alzheimer's disease. <i>Annals of Neurology</i> , 1992, 32, 57-65.	2.8	56
47	Anesthetic Propofol Attenuates the Isoflurane-Induced Caspase-3 Activation and $\beta$ Oligomerization. <i>PLoS ONE</i> , 2011, 6, e27019.	1.1	56
48	Altered synapses in a Drosophila model of Alzheimer's disease. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 373-85.	1.2	55
49	Association of membrane-bound amyloid precursor protein APP with the apolipoprotein E receptor LRP. <i>Molecular Brain Research</i> , 2001, 87, 238-245.	2.5	53
50	Human Brain $\beta$ 4 Amyloid Protein Precursor of Alzheimer's Disease: Purification and Partial Characterization. <i>Journal of Neurochemistry</i> , 1992, 59, 1490-1498.	2.1	49
51	Peroxidase Activity of Cyclooxygenase-2 (COX-2) Cross-links $\beta$ -Amyloid ( $\beta$ ) and Generates $\beta$ -COX-2 Hetero-oligomers That Are Increased in Alzheimer's Disease. <i>Journal of Biological Chemistry</i> , 2004, 279, 14673-14678.	1.6	44
52	Non-Conjugated Small Molecule FRET for Differentiating Monomers from Higher Molecular Weight Amyloid Beta Species. <i>PLoS ONE</i> , 2011, 6, e19362.	1.1	41
53	LRP-Mediated Clearance of A $\beta$ 46; is Inhibited by KPI-Containing Isoforms of APP. <i>Current Alzheimer Research</i> , 2005, 2, 269-273.	0.7	40
54	Alzheimer's disease: the potential therapeutic role of the natural antibiotic amyloid- $\beta$ peptide. <i>Neurodegenerative Disease Management</i> , 2016, 6, 345-348.	1.2	35

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55	Hypocapnia Induces Caspase-3 Activation and Increases A $\beta$ Production. <i>Neurodegenerative Diseases</i> , 2004, 1, 29-37.	0.8	33
56	Low Evolutionary Selection Pressure in Senescence Does Not Explain the Persistence of A $\beta$ in the Vertebrate Genome. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 70.	1.7	22
57	Mounting evidence for the involvement of zinc and copper in Alzheimer's disease. <i>European Journal of Clinical Investigation</i> , 1999, 29, 569-570.	1.7	21
58	Neuroinflammatory Responses in the Alzheimer's Disease Brain Promote the Oxidative Post-translational Modification of Amyloid Deposits. , 0, , 341-361.		14
59	The amino-terminal sequence of the 85â€“90K nonhormone binding component of the molybdate-stabilized estradiol receptor from calf uterus. <i>Biochemical and Biophysical Research Communications</i> , 1987, 143, 218-224.	1.0	12
60	Reduced amyloidogenic processing of the amyloid $\beta$ -protein precursor by the small-molecule Differentiation Inducing Factor-1. <i>Cellular Signalling</i> , 2009, 21, 567-576.	1.7	10
61	The Emerging Role of Innate Immunity in Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2017, 42, 362-362.	2.8	10
62	A spectrophotometric assay for 6-phosphogluconolactonase involving the use of immobilized enzymes to prepare the labile 6-phosphogluconoâ€“lactone substrate. <i>Biochemical Journal</i> , 1988, 256, 69-73.	1.7	8
63	In Vivo Quasi-Elastic Light Scattering Eye Scanner Detects Molecular Aging in Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, e53-e62.	1.7	5
64	Alzheimer's disease amyloid- $\beta$ pathology in the lens of the eye. <i>Experimental Eye Research</i> , 2022, 221, 108974.	1.2	5
65	Cerebral Zinc Metabolism in Alzheimer's Disease. , 1997, , 225-237.		4
66	Alzheimer's Disease-Associated $\beta$ -amyloid Is Rapidly Seeded by <i>herpesviridae</i> to Protect Against Brain Infection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
67	Soluble lipoprotein receptor-related protein immunoreactive species in cell culture media and serum replacement supplements. <i>Analytical Methods</i> , 2017, 9, 110-116.	1.3	0