

Mark R Wilson

List of Publications by Citations

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131
papers

6,771
citations

49
h-index

79
g-index

133
ext. papers

7,666
ext. citations

6
avg, IF

5.76
L-index

#	Paper	IF	Citations
131	Clusterin has chaperone-like activity similar to that of small heat shock proteins. <i>Journal of Biological Chemistry</i> , 1999 , 274, 6875-81	5.4	323
130	Clusterin is a secreted mammalian chaperone. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 95-8	10.3	303
129	ANS binding reveals common features of cytotoxic amyloid species. <i>ACS Chemical Biology</i> , 2010 , 5, 735-40	4.9	291
128	The extracellular chaperone clusterin influences amyloid formation and toxicity by interacting with prefibrillar structures. <i>FASEB Journal</i> , 2007 , 21, 2312-22	0.9	237
127	Clusterin is an ATP-independent chaperone with very broad substrate specificity that stabilizes stressed proteins in a folding-competent state. <i>Biochemistry</i> , 2000 , 39, 15953-60	3.2	204
126	Poly(2-alkylacrylic acid) polymers deliver molecules to the cytosol by pH-sensitive disruption of endosomal vesicles. <i>Biochemical Journal</i> , 2003 , 372, 65-75	3.8	200
125	The extracellular chaperone clusterin sequesters oligomeric forms of the amyloid- β (1-40) peptide. <i>Nature Structural and Molecular Biology</i> , 2011 , 19, 79-83	17.6	198
124	Heat shock protein 70 inhibits alpha-synuclein fibril formation via preferential binding to prefibrillar species. <i>Journal of Biological Chemistry</i> , 2005 , 280, 14733-40	5.4	184
123	Comparison of virulence gene profiles of Escherichia coli strains isolated from healthy and diarrheic swine. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 4782-95	4.8	180
122	Amyloid fibril formation by bovine milk kappa-casein and its inhibition by the molecular chaperones alphaS- and beta-casein. <i>Biochemistry</i> , 2005 , 44, 17027-36	3.2	167
121	Small heat-shock proteins and clusterin: intra- and extracellular molecular chaperones with a common mechanism of action and function?. <i>IUBMB Life</i> , 2003 , 55, 661-8	4.7	147
120	Walking the tightrope: proteostasis and neurodegenerative disease. <i>Journal of Neurochemistry</i> , 2016 , 137, 489-505	6	126
119	Molecular mechanisms used by chaperones to reduce the toxicity of aberrant protein oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12479-84	11.5	121
118	Extracellular chaperones and proteostasis. <i>Annual Review of Biochemistry</i> , 2013 , 82, 295-322	29.1	110
117	Potential roles of abundant extracellular chaperones in the control of amyloid formation and toxicity. <i>Molecular BioSystems</i> , 2008 , 4, 42-52		101
116	Stress-induced retrotranslocation of clusterin/ApoJ into the cytosol. <i>Traffic</i> , 2007 , 8, 554-65	5.7	100
115	Quality control of protein folding in extracellular space. <i>EMBO Reports</i> , 2005 , 6, 1131-6	6.5	99

114	Clusterin is an extracellular chaperone that specifically interacts with slowly aggregating proteins on their off-folding pathway. <i>FEBS Letters</i> , 2002 , 513, 259-66	3.8	99
113	Apolipoprotein J (clusterin) induces cholesterol export from macrophage-foam cells: a potential anti-atherogenic function?. <i>Biochemical Journal</i> , 1998 , 331 (Pt 1), 231-7	3.8	99
112	The acute phase protein haptoglobin is a mammalian extracellular chaperone with an action similar to clusterin. <i>Biochemistry</i> , 2005 , 44, 10914-25	3.2	88
111	Clusterin facilitates in vivo clearance of extracellular misfolded proteins. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 3919-31	10.3	86
110	pDMAEMA is internalised by endocytosis but does not physically disrupt endosomes. <i>Journal of Controlled Release</i> , 2004 , 96, 379-91	11.7	81
109	Apoptosis: unmasking the executioner. <i>Cell Death and Differentiation</i> , 1998 , 5, 646-52	12.7	78
108	Effects of clusterin overexpression on TNFalpha- and TGFbeta-mediated death of L929 cells. <i>Biochemistry</i> , 1997 , 36, 15233-43	3.2	76
107	Age-dependent silencing of globin transgenes in the mouse. <i>Nucleic Acids Research</i> , 1996 , 24, 1465-71	20.1	76
106	Secondary nucleation and elongation occur at different sites on Alzheimer's amyloid-beta aggregates. <i>Science Advances</i> , 2019 , 5, eaau3112	14.3	74
105	Transcriptome profiling of a TGF-beta-induced epithelial-to-mesenchymal transition reveals extracellular clusterin as a target for therapeutic antibodies. <i>Oncogene</i> , 2010 , 29, 831-44	9.2	74
104	The extracellular chaperone clusterin potently inhibits human lysozyme amyloid formation by interacting with prefibrillar species. <i>Journal of Molecular Biology</i> , 2007 , 369, 157-67	6.5	74
103	Clusterin binds by a multivalent mechanism to the Fc and Fab regions of IgG. <i>BBA - Proteins and Proteomics</i> , 1992 , 1159, 319-26		74
102	Mildly acidic pH activates the extracellular molecular chaperone clusterin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39532-40	5.4	73
101	Spinal motor neuron protein supersaturation patterns are associated with inclusion body formation in ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3935-E3943	11.5	72
100	alpha2-Macroglobulin and haptoglobin suppress amyloid formation by interacting with prefibrillar protein species. <i>Journal of Biological Chemistry</i> , 2009 , 284, 4246-54	5.4	72
99	Protease activation of alpha2-macroglobulin modulates a chaperone-like action with broad specificity. <i>Biochemistry</i> , 2008 , 47, 1176-85	3.2	71
98	Clusterin as a therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2017 , 21, 201-213	6.4	69
97	Rare individual amyloid-beta oligomers act on astrocytes to initiate neuronal damage. <i>Biochemistry</i> , 2014 , 53, 2442-53	3.2	68

96	Single molecule characterization of the interactions between amyloid- β peptides and the membranes of hippocampal cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1491-8	16.4	68
95	Amyloid- β oligomers are sequestered by both intracellular and extracellular chaperones. <i>Biochemistry</i> , 2012 , 51, 9270-6	3.2	65
94	Alpha-2 macroglobulin in Alzheimer's disease: a marker of neuronal injury through the RCAN1 pathway. <i>Molecular Psychiatry</i> , 2017 , 22, 13-23	15.1	64
93	The use of chloromethyl-X-rosamine (Mitotracker red) to measure loss of mitochondrial membrane potential in apoptotic cells is incompatible with cell fixation. <i>Cytometry</i> , 1999 , 36, 355-8		62
92	Evidence that clusterin has discrete chaperone and ligand binding sites. <i>Biochemistry</i> , 2002 , 41, 282-91	3.2	61
91	Mapping interactions with the chaperone network reveals factors that protect against tau aggregation. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 384-393	17.6	60
90	Structural characterization of clusterin-chaperone client protein complexes. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21920-21927	5.4	59
89	Carotenoid intake does not mediate a relationship between reactive oxygen species and bright colouration: experimental test in a lizard. <i>Journal of Experimental Biology</i> , 2008 , 211, 1257-61	3	55
88	SOD1 protein aggregates stimulate macropinocytosis in neurons to facilitate their propagation. <i>Molecular Neurodegeneration</i> , 2015 , 10, 57	19	53
87	Lymphotoxin-beta receptor-dependent genes in lymph node and follicular dendritic cell transcriptomes. <i>Journal of Immunology</i> , 2005 , 174, 5526-36	5.3	53
86	Chapter 6: The chaperone action of Clusterin and its putative role in quality control of extracellular protein folding. <i>Advances in Cancer Research</i> , 2009 , 104, 89-114	5.9	51
85	Clusterin facilitates apoptotic cell clearance and prevents apoptotic cell-induced autoimmune responses. <i>Cell Death and Disease</i> , 2016 , 7, e2215	9.8	51
84	Hypochlorite-induced structural modifications enhance the chaperone activity of human α -2-macroglobulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2081-90	11.5	49
83	Effects of glycosylation on the structure and function of the extracellular chaperone clusterin. <i>Biochemistry</i> , 2007 , 46, 1412-22	3.2	47
82	Clusterin enhances the formation of insoluble immune complexes. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 177, 985-90	3.4	47
81	Free radicals run in lizard families. <i>Biology Letters</i> , 2008 , 4, 186-8	3.6	46
80	Clusterin interacts with Paclitaxel and confer Paclitaxel resistance in ovarian cancer. <i>Neoplasia</i> , 2008 , 10, 964-72	6.4	46
79	Extracellular chaperones prevent A β 2-induced toxicity in rat brains. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1217-26	6.9	44

78	Extracellular chaperones modulate the effects of Alzheimer's patient cerebrospinal fluid on Aβ(1-42) toxicity and uptake. <i>Cell Stress and Chaperones</i> , 2010 , 15, 115-21	4	42
77	Suppression of apolipoprotein C-II amyloid formation by the extracellular chaperone, clusterin. <i>FEBS Journal</i> , 2002 , 269, 2789-94		42
76	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic Synuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
75	Roles of extracellular chaperones in amyloidosis. <i>Journal of Molecular Biology</i> , 2012 , 421, 499-516	6.5	41
74	Regulatory effects of simvastatin and apoJ on APP processing and amyloid-β clearance in blood-brain barrier endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 40-60	5	40
73	Modes of L929 cell death induced by TNF-alpha and other cytotoxic agents. <i>Cytokine</i> , 1999 , 11, 773-82	4	39
72	A reexamination of the role of clusterin as a complement regulator. <i>Experimental Cell Research</i> , 1999 , 249, 13-21	4.2	37
71	Clusterin protects neurons against intracellular proteotoxicity. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 81	7.3	33
70	Human pregnancy zone protein stabilizes misfolded proteins including preeclampsia- and Alzheimer's-associated amyloid beta peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6101-6110	11.5	32
69	Protease-activated alpha-2-macroglobulin can inhibit amyloid formation via two distinct mechanisms. <i>FEBS Letters</i> , 2013 , 587, 398-403	3.8	32
68	Identification of human plasma proteins as major clients for the extracellular chaperone clusterin. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3532-3539	5.4	32
67	Sex-specific SOD levels and DNA damage in painted dragon lizards (<i>Ctenophorus pictus</i>). <i>Oecologia</i> , 2012 , 170, 917-24	2.9	30
66	Alpha-2-Macroglobulin, a Hypochlorite-Regulated Chaperone and Immune System Modulator. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 5410657	6.7	28
65	Apoptotic signal transduction: emerging pathways. <i>Biochemistry and Cell Biology</i> , 1998 , 76, 573-82	3.6	26
64	Ageing and the cost of maintaining coloration in the Australian painted dragon. <i>Biology Letters</i> , 2016 , 12,	3.6	24
63	Telomere dynamics in a lizard with morph-specific reproductive investment and self-maintenance. <i>Ecology and Evolution</i> , 2017 , 7, 5163-5169	2.8	24
62	The Transport and Metabolism of Urea in <i>Chara australis</i> . <i>Journal of Experimental Botany</i> , 1988 , 39, 763-774		23
61	Clearance of interstitial fluid (ISF) and CSF (CLIC) group-part of Vascular Professional Interest Area (PIA): Cerebrovascular disease and the failure of elimination of Amyloid-β from the brain and retina with age and Alzheimer's disease-Opportunities for Therapy. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020 , 12, =12058	5.2	22

60	A significant component of ageing (DNA damage) is reflected in fading breeding colors: an experimental test using innate antioxidant mimetics in painted dragon lizards. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 2475-83	3.8	21
59	Acute phase proteins are major clients for the chaperone action of Hsc70 in human plasma. <i>Cell Stress and Chaperones</i> , 2013 , 18, 161-70	4	21
58	SerpinB2 (PAI-2) Modulates Proteostasis via Binding Misfolded Proteins and Promotion of Cytoprotective Inclusion Formation. <i>PLoS ONE</i> , 2015 , 10, e0130136	3.7	21
57	Variation in levels of reactive oxygen species is explained by maternal identity, sex and body-size-corrected clutch size in a lizard. <i>Die Naturwissenschaften</i> , 2009 , 96, 25-9	2	21
56	Opacity factor activity and epithelial cell binding by the serum opacity factor protein of <i>Streptococcus pyogenes</i> are functionally discrete. <i>Journal of Biological Chemistry</i> , 2008 , 283, 6359-66	5.4	21
55	Enzyme complex amplification--a signal amplification method for use in enzyme immunoassays. <i>Analytical Biochemistry</i> , 1993 , 209, 183-7	3.1	21
54	A new microsphere-based immunofluorescence assay using flow cytometry. <i>Journal of Immunological Methods</i> , 1988 , 107, 225-30	2.5	21
53	Clusterin in the eye: An old dog with new tricks at the ocular surface. <i>Experimental Eye Research</i> , 2016 , 147, 57-71	3.7	21
52	Clusterin Seals the Ocular Surface Barrier in Mouse Dry Eye. <i>PLoS ONE</i> , 2015 , 10, e0138958	3.7	20
51	Rapid flow cytometric measurement of protein inclusions and nuclear trafficking. <i>Scientific Reports</i> , 2016 , 6, 31138	4.9	20
50	Polyelectrolyte complex materials consisting of antibacterial and cell-supporting layers. <i>Macromolecular Bioscience</i> , 2012 , 12, 374-82	5.5	19
49	Extracellular chaperones. <i>Topics in Current Chemistry</i> , 2013 , 328, 241-68		19
48	Effect of molecular chaperones on aberrant protein oligomers in vitro: super-versus sub-stoichiometric chaperone concentrations. <i>Biological Chemistry</i> , 2016 , 397, 401-15	4.5	18
47	The use of immobilised metal affinity chromatography (IMAC) to compare expression of copper-binding proteins in control and copper-exposed marine microalgae. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 305-15	4.4	18
46	Detecting mitochondrial permeability transition by confocal imaging of intact cells pinocytically loaded with calcein. <i>FEBS Journal</i> , 2002 , 269, 3990-7		17
45	Pinocytic loading of cytochrome c into intact cells specifically induces caspase-dependent permeabilization of mitochondria: evidence for a cytochrome c feedback loop. <i>Cell Death and Differentiation</i> , 2001 , 8, 631-9	12.7	17
44	The Transport and Metabolism of Urea in <i>Chara australis</i> . <i>Journal of Experimental Botany</i> , 1988 , 39, 739-751		17
43	Flow cytometric measurement of the cellular propagation of TDP-43 aggregation. <i>Prion</i> , 2017 , 11, 195-204		16

42	Apolipoprotein E and clusterin inhibit the early phase of amyloid- β aggregation in an in vitro model of cerebral amyloid angiopathy. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 12	7.3	15
41	Therapeutic targets in extracellular protein deposition diseases. <i>Current Medicinal Chemistry</i> , 2009 , 16, 2855-66	4.3	15
40	Long-term effects of superoxide and DNA repair on lizard telomeres. <i>Molecular Ecology</i> , 2018 , 27, 5154-5164	5.164	14
39	The Dual Roles of Clusterin in Extracellular and Intracellular Proteostasis. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 652-660	10.3	14
38	Amorphous protein aggregates stimulate plasminogen activation, leading to release of cytotoxic fragments that are clients for extracellular chaperones. <i>Journal of Biological Chemistry</i> , 2017 , 292, 14425-14437	5.4437	13
37	Basal superoxide as a sex-specific immune constraint. <i>Biology Letters</i> , 2011 , 7, 906-8	3.6	13
36	Expression and purification of chaperone-active recombinant clusterin. <i>PLoS ONE</i> , 2014 , 9, e86989	3.7	12
35	Oxidant trade-offs in immunity: an experimental test in a lizard. <i>PLoS ONE</i> , 2015 , 10, e0126155	3.7	12
34	Polymorphic ROS scavenging revealed by CCCP in a lizard. <i>Die Naturwissenschaften</i> , 2009 , 96, 845-9	2	11
33	Conditional Handicaps in Exuberant Lizards: Bright Color in Aggressive Males Is Correlated with High Levels of Free Radicals. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	10
32	Epithelial cell-derived transforming growth factor-beta in bleomycin-induced pulmonary injury. <i>International Journal of Experimental Pathology</i> , 1996 , 77, 99-107	2.8	10
31	Polymorphic male color morphs visualized with steroids in monomorphic females: a tool for designing analysis of sex-limited trait inheritance. <i>Journal of Experimental Biology</i> , 2012 , 215, 575-7	3	8
30	Effect of statins on serum apolipoprotein j and paraoxonase-1 levels in patients with ischemic heart disease undergoing coronary angiography. <i>Angiology</i> , 2008 , 59, 137-44	2.1	8
29	The Transport and Metabolism of Urea in <i>Chara australis</i> . <i>Journal of Experimental Botany</i> , 1988 , 39, 753-761	761	8
28	Clusterin from human clinical tear samples: Positive correlation between tear concentration and Schirmer strip test results. <i>Ocular Surface</i> , 2018 , 16, 478-486	6.5	7
27	Alpha-2-Macroglobulin Is Acutely Sensitive to Freezing and Lyophilization: Implications for Structural and Functional Studies. <i>PLoS ONE</i> , 2015 , 10, e0130036	3.7	7
26	Net superoxide levels: steeper increase with activity in cooler female and hotter male lizards. <i>Journal of Experimental Biology</i> , 2012 , 215, 731-5	3	7
25	Predictors of telomere content in dragon lizards. <i>Die Naturwissenschaften</i> , 2012 , 99, 661-4	2	7

24	Micro-Patterned Surface Modification of Poly(dimethylsiloxane) (PDMS) Substrates for Tissue Engineering. <i>Advanced Science Letters</i> , 2011 , 4, 431-436	0.1	7
23	Rapid high-yield expression and purification of fully post-translationally modified recombinant clusterin and mutants. <i>Scientific Reports</i> , 2020 , 10, 14243	4.9	7
22	Immunofluorescent labeling using covalently linked anti-phycoerythrin antibodies and phycoerythrin polymers. <i>Cytometry</i> , 1991 , 12, 373-7		6
21	RHP is antigenically related to factor H and binds to the globular heads of C1q. <i>Molecular Immunology</i> , 1992 , 29, 1203-7	4.3	6
20	Telomere length varies substantially between blood cell types in a reptile. <i>Royal Society Open Science</i> , 2020 , 7, 192136	3.3	6
19	The heat shock response is modulated by and interferes with toxic effects of scrapie prion protein and amyloid β . <i>Journal of Biological Chemistry</i> , 2012 , 287, 43765-76	5.4	5
18	Free radicals run in lizard families without (and perhaps with) mitochondrial uncoupling. <i>Biology Letters</i> , 2009 , 5, 345-6	3.6	5
17	A new microsphere-based immunofluorescence assay for antibodies to membrane-associated antigens. <i>Journal of Immunological Methods</i> , 1988 , 107, 231-7	2.5	5
16	Covariation in superoxide, sperm telomere length and sperm velocity in a polymorphic reptile. <i>Behavioral Ecology and Sociobiology</i> , 2020 , 74, 1	2.5	5
15	Extracellular Chaperones and Amyloids 2008 , 283-315		5
14	Exercise training has morph-specific effects on telomere, body condition and growth dynamics in a color-polymorphic lizard. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	4
13	Expanding the family of extracellular chaperones: Identification of human plasma proteins with chaperone activity. <i>Protein Science</i> , 2021 , 30, 2272-2286	6.3	4
12	Neuroserpin and transthyretin are extracellular chaperones that preferentially inhibit amyloid formation. <i>Science Advances</i> , 2021 , 7, eabf7606	14.3	4
11	Using Tetracysteine-Tagged TDP-43 with a Biarsenical Dye To Monitor Real-Time Trafficking in a Cell Model of Amyotrophic Lateral Sclerosis. <i>Biochemistry</i> , 2019 , 58, 4086-4095	3.2	3
10	Vitellogenin offsets oxidative costs of reproduction in female painted dragon lizards. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	3
9	Therapeutic Potential of the Molecular Chaperone and Matrix Metalloproteinase Inhibitor Clusterin for Dry Eye. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	3
8	Use of monoclonal antibodies in ELISA assays. <i>Biochemical Education</i> , 1996 , 24, 50-52		2
7	The effect of circulating antigen on radioimmuno-detection and monoclonal antibody localisation: studies in a normal rat model. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1989 , 15, 313-20		2

6	Hypochlorite-induced aggregation of fibrinogen underlies a novel antioxidant role in blood plasma. <i>Redox Biology</i> , 2021 , 40, 101847	11.3	2
5	Extracellular Chaperones. <i>Topics in Current Chemistry</i> , 2010 , 1		1
4	The 2021 FASEB Virtual Catalyst Conference on Extracellular and Organismal Proteostasis in Health and Disease, February 3-4, 2021. <i>FASEB Journal</i> , 2021 , 35, e21631	0.9	1
3	Identifying new molecular players in extracellular proteostasis.. <i>Biochemical Society Transactions</i> , 2021 ,	5.1	1
2	Clusterin, other extracellular chaperones, and eye disease.. <i>Progress in Retinal and Eye Research</i> , 2021 , 101032	20.5	1
1	F2-03-04: CLUSTERIN: A UNIQUE CHAPERONE ACTIVE IN BOTH INTRA- AND EXTRA-CELLULAR PROTEOSTASIS 2014 , 10, P161-P161		