

R Luke Wiseman

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

7,249
citations

70961

41
h-index

62479

80
g-index

107
all docs

107
docs citations

107
times ranked

7943
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacologic IRE1/XBP1s activation promotes systemic adaptive remodeling in obesity. <i>Nature Communications</i> , 2022, 13, 608.	5.8	31
2	Cryo-EM structure of hexameric yeast Lon protease (PIM1) highlights the importance of conserved structural elements. <i>Journal of Biological Chemistry</i> , 2022, 298, 101694.	1.6	6
3	Stress-responsive regulation of extracellular proteostasis. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	20
4	Reshaping endoplasmic reticulum quality control through the unfolded protein response. <i>Molecular Cell</i> , 2022, 82, 1477-1491.	4.5	105
5	Pharmacological activation of ATF6 remodels the proteostasis network to rescue pathogenic GABAA receptors. <i>Cell and Bioscience</i> , 2022, 12, 48.	2.1	14
6	ATF6 Activation Reduces Amyloidogenic Transthyretin Secretion through Increased Interactions with Endoplasmic Reticulum Proteostasis Factors. <i>Cells</i> , 2022, 11, 1661.	1.8	4
7	Pharmacologic targeting of plasma cell endoplasmic reticulum proteostasis to reduce amyloidogenic light chain secretion. <i>Blood Advances</i> , 2021, 5, 1037-1049.	2.5	19
8	Structures of the human LONP1 protease reveal regulatory steps involved in protease activation. <i>Nature Communications</i> , 2021, 12, 3239.	5.8	40
9	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.	0.2	1
10	Enforced dimerization between XBP1s and ATF6f enhances the protective effects of the UPR in models of neurodegeneration. <i>Molecular Therapy</i> , 2021, 29, 1862-1882.	3.7	25
11	ATF6 is essential for human cone photoreceptor development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
12	Metabolically Activated Proteostasis Regulators Protect against Glutamate Toxicity by Activating NRF2. <i>ACS Chemical Biology</i> , 2021, 16, 2852-2863.	1.6	16
13	Expression of Amyloidogenic Transthyretin Drives Hepatic Proteostasis Remodeling in an Induced Pluripotent Stem Cell Model of Systemic Amyloid β Disease. <i>Stem Cell Reports</i> , 2020, 15, 515-528.	2.3	12
14	Pharmacologic IRE1/XBP1s activation confers targeted ER proteostasis reprogramming. <i>Nature Chemical Biology</i> , 2020, 16, 1052-1061.	3.9	90
15	Defining the Functional Targets of Cap β ™collar Transcription Factors NRF1, NRF2, and NRF3. <i>Antioxidants</i> , 2020, 9, 1025.	2.2	29
16	Small molecule strategies to harness the unfolded protein response: where do we go from here?. <i>Journal of Biological Chemistry</i> , 2020, 295, 15692-15711.	1.6	70
17	Premature Activation of Immune Transcription Programs in Autoimmune-Predisposed Mouse Embryonic Stem Cells and Blastocysts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5743.	1.8	0
18	Structural basis for distinct operational modes and protease activation in AAA+ protease Lon. <i>Science Advances</i> , 2020, 6, eaba8404.	4.7	55

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19	Insulin-like growth factor 2 (IGF2) protects against Huntington's disease through the extracellular disposal of protein aggregates. <i>Acta Neuropathologica</i> , 2020, 140, 737-764.	3.9	43
20	Starting at the beginning: endoplasmic reticulum proteostasis and systemic amyloid disease. <i>Biochemical Journal</i> , 2020, 477, 1721-1732.	1.7	7
21	Multiexon deletion alleles of ATF6 linked to achromatopsia. <i>JCI Insight</i> , 2020, 5, .	2.3	13
22	Unique Structural Features of the Mitochondrial AAA+ Protease AFG3L2 Reveal the Molecular Basis for Activity in Health and Disease. <i>Molecular Cell</i> , 2019, 75, 1073-1085.e6.	4.5	58
23	PERK Signaling Regulates Extracellular Proteostasis of an Amyloidogenic Protein During Endoplasmic Reticulum Stress. <i>Scientific Reports</i> , 2019, 9, 410.	1.6	20
24	Proteostasis and Beyond: ATF6 in Ischemic Disease. <i>Trends in Molecular Medicine</i> , 2019, 25, 538-550.	3.5	66
25	Non-canonical function of IRE1 β determines mitochondria-associated endoplasmic reticulum composition to control calcium transfer and bioenergetics. <i>Nature Cell Biology</i> , 2019, 21, 755-767.	4.6	168
26	Quantitative Interactome Proteomics Reveals a Molecular Basis for ATF6-Dependent Regulation of a Destabilized Amyloidogenic Protein. <i>Cell Chemical Biology</i> , 2019, 26, 913-925.e4.	2.5	26
27	Lining up for quality control: linear ubiquitin and proteotoxicity. <i>EMBO Journal</i> , 2019, 38, .	3.5	0
28	Deconvoluting Stress-Responsive Proteostasis Signaling Pathways for Pharmacologic Activation Using Targeted RNA Sequencing. <i>ACS Chemical Biology</i> , 2019, 14, 784-795.	1.6	45
29	Pharmacologic ATF6 activation confers global protection in widespread disease models by reprogramming cellular proteostasis. <i>Nature Communications</i> , 2019, 10, 187.	5.8	140
30	Characterization of an A-Site Selective Protein Disulfide Isomerase A1 Inhibitor. <i>Biochemistry</i> , 2018, 57, 2035-2043.	1.2	38
31	The unfolded protein response regulator ATF6 promotes mesodermal differentiation. <i>Science Signaling</i> , 2018, 11, .	1.6	54
32	The PERK Arm of the Unfolded Protein Response Regulates Mitochondrial Morphology during Acute Endoplasmic Reticulum Stress. <i>Cell Reports</i> , 2018, 22, 2827-2836.	2.9	172
33	Coordinating Mitochondrial Biology Through the Stress-Responsive Regulation of Mitochondrial Proteases. <i>International Review of Cell and Molecular Biology</i> , 2018, 340, 79-128.	1.6	17
34	A library of ATTR amyloidosis patient-specific induced pluripotent stem cells for disease modelling and <i>in vitro</i> testing of novel therapeutics. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2018, 25, 148-155.	1.4	13
35	Pharmacologic ATF6 activating compounds are metabolically activated to selectively modify endoplasmic reticulum proteins. <i>ELife</i> , 2018, 7, .	2.8	85
36	The Unfolded Protein Response Regulator, ATF6, Promotes Mesodermal Differentiation. <i>FASEB Journal</i> , 2018, 32, 542.23.	0.2	0

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37	Structure of the mitochondrial inner membrane AAA+ protease YME1 gives insight into substrate processing. <i>Science</i> , 2017, 358, .	6.0	179
38	Regulating Secretory Proteostasis through the Unfolded Protein Response: From Function to Therapy. <i>Trends in Cell Biology</i> , 2017, 27, 722-737.	3.6	70
39	The endoplasmic reticulum <scp>HSP</scp>40 coâ€chaperone <scp>ER</scp>dj3/<scp>DNAJB</scp>11 assembles and functions as a tetramer. <i>EMBO Journal</i> , 2017, 36, 2296-2309.	3.5	38
40	Small molecule proteostasis regulators that reprogram the ER to reduce extracellular protein aggregation. <i>ELife</i> , 2016, 5, .	2.8	185
41	Modulating protein quality control. <i>ELife</i> , 2016, 5, .	2.8	12
42	Reciprocal Degradation of YME1L and OMA1 Adapts Mitochondrial Proteolytic Activity during Stress. <i>Cell Reports</i> , 2016, 14, 2041-2049.	2.9	132
43	Endoplasmic Reticulum Proteostasis Influences the Oligomeric State of an Amyloidogenic Protein Secreted from Mammalian Cells. <i>Cell Chemical Biology</i> , 2016, 23, 1282-1293.	2.5	29
44	Endoplasmic reticulum quality control and systemic amyloid disease: Impacting protein stability from the inside out. <i>IUBMB Life</i> , 2015, 67, 404-413.	1.5	22
45	A Fluorogenic Aryl Fluorosulfate for Intraorganellar Transthyretin Imaging in Living Cells and in <i>Caenorhabditis elegans</i>. <i>Journal of the American Chemical Society</i> , 2015, 137, 7404-7414.	6.6	86
46	<scp>YME</scp>1L degradation reduces mitochondrial proteolytic capacity during oxidative stress. <i>EMBO Reports</i> , 2015, 16, 97-106.	2.0	70
47	Enhanced Aromatic Sequons Increase Oligosaccharyltransferase Glycosylation Efficiency and Glycan Homogeneity. <i>Chemistry and Biology</i> , 2015, 22, 1052-1062.	6.2	36
48	Regulating extracellular proteostasis capacity through the unfolded protein response. <i>Prion</i> , 2015, 9, 10-21.	0.9	22
49	Chaperones in Neurodegeneration. <i>Journal of Neuroscience</i> , 2015, 35, 13853-13859.	1.7	81
50	Targeting protein aggregation for the treatment of degenerative diseases. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 759-780.	21.5	338
51	Unfolded protein responseâ€induced <scp>ER</scp>dj3 secretion links <scp>ER</scp> stress to extracellular proteostasis. <i>EMBO Journal</i> , 2015, 34, 4-19.	3.5	110
52	ATF6 Activation Reduces the Secretion and Extracellular Aggregation of Destabilized Variants of an Amyloidogenic Protein. <i>Chemistry and Biology</i> , 2014, 21, 1564-1574.	6.2	63
53	Unfolded protein response activation reduces secretion and extracellular aggregation of amyloidogenic immunoglobulin light chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13046-13051.	3.3	83
54	Stress-responsive regulation of mitochondria through the ER unfolded protein response. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 528-537.	3.1	162

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55	Characterizing the Altered Cellular Proteome Induced by the Stress-Independent Activation of Heat Shock Factor 1. <i>ACS Chemical Biology</i> , 2014, 9, 1273-1283.	1.6	51
56	Quantification of Transthyretin Kinetic Stability in Human Plasma Using Subunit Exchange. <i>Biochemistry</i> , 2014, 53, 1993-2006.	1.2	62
57	Stress-Independent Activation of XBP1s and/or ATF6 Reveals Three Functionally Diverse ER Proteostasis Environments. <i>Cell Reports</i> , 2013, 3, 1279-1292.	2.9	436
58	Induced Pluripotent Stem Cell Modeling of Multisystemic, Hereditary Transthyretin Amyloidosis. <i>Stem Cell Reports</i> , 2013, 1, 451-463.	2.3	42
59	Stress-Regulated Translational Attenuation Adapts Mitochondrial Protein Import through Tim17A Degradation. <i>Cell Metabolism</i> , 2013, 18, 908-919.	7.2	142
60	Targeting unfolded protein response signaling pathways to ameliorate protein misfolding diseases. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 346-352.	2.8	64
61	Broadly Applicable Methodology for the Rapid and Dosable Small Molecule-Mediated Regulation of Transcription Factors in Human Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 8129-8132.	6.6	42
62	Tafamidis, a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9629-9634.	3.3	582
63	Chemically Targeting the Emergent Properties of a Chaperone Complex. <i>Chemistry and Biology</i> , 2011, 18, 144-145.	6.2	1
64	Phosphatase Inhibition Delays Translational Recovery. <i>Science</i> , 2011, 332, 44-45.	6.0	42
65	Flavonol Activation Defines an Unanticipated Ligand-Binding Site in the Kinase-RNase Domain of IRE1. <i>Molecular Cell</i> , 2010, 38, 291-304.	4.5	173
66	SnapShot: The Unfolded Protein Response. <i>Cell</i> , 2010, 140, 590-590.e2.	13.5	41
67	Thioredoxin-related Protein 32 Is an Arsenite-regulated Thiol Reductase of the Proteasome 19 S Particle. <i>Journal of Biological Chemistry</i> , 2009, 284, 15233-15245.	1.6	38
68	Evolving Protein Stability through Genetic Selection. <i>Molecular Cell</i> , 2009, 36, 730-731.	4.5	2
69	An Adaptable Standard for Protein Export from the Endoplasmic Reticulum. <i>Cell</i> , 2007, 131, 809-821.	13.5	147
70	Protein energetics in maturation of the early secretory pathway. <i>Current Opinion in Cell Biology</i> , 2007, 19, 359-367.	2.6	27
71	R104H may suppress transthyretin amyloidogenesis by thermodynamic stabilization, but not by the kinetic mechanism characterizing T119 interallelic trans-suppression. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2006, 13, 57-66.	1.4	22
72	The Pathway by Which the Tetrameric Protein Transthyretin Dissociates. <i>Biochemistry</i> , 2005, 44, 15525-15533.	1.2	149

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73	Kinetic Stabilization of an Oligomeric Protein by a Single Ligand Binding Event. <i>Journal of the American Chemical Society</i> , 2005, 127, 5540-5551.	6.6	95
74	Partitioning Conformational Intermediates between Competing Refolding and Aggregation Pathways: Insights into Transthyretin Amyloid Disease. <i>Biochemistry</i> , 2005, 44, 16612-16623.	1.2	53
75	Kinetic Stabilization of an Oligomeric Protein under Physiological Conditions Demonstrated by a Lack of Subunit Exchange: Implications for Transthyretin Amyloidosis. <i>Biochemistry</i> , 2005, 44, 9265-9274.	1.2	58
76	Native State Kinetic Stabilization as a Strategy To Ameliorate Protein Misfolding Diseases: A Focus on the Transthyretin Amyloidoses. <i>Accounts of Chemical Research</i> , 2005, 38, 911-921.	7.6	261
77	Kinetic Stabilization of the Native State by Protein Engineering: Implications for Inhibition of Transthyretin Amyloidogenesis. <i>Journal of Molecular Biology</i> , 2005, 347, 841-854.	2.0	73
78	A new pharmacology "drugging stressed folding pathways. <i>Trends in Molecular Medicine</i> , 2005, 11, 347-350.	3.5	65
79	The Biological and Chemical Basis for Tissue-Selective Amyloid Disease. <i>Cell</i> , 2005, 121, 73-85.	13.5	427
80	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 2864-2867.	1.6	38
81	Benzoxazoles as Transthyretin Amyloid Fibril Inhibitors: Synthesis, Evaluation, and Mechanism of Action. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2758-2761.	7.2	204
82	D18G Transthyretin Is Monomeric, Aggregation Prone, and Not Detectable in Plasma and Cerebrospinal Fluid: A Prescription for Central Nervous System Amyloidosis? <i>Biochemistry</i> , 2003, 42, 6656-6663.	1.2	117
83	Prevention of Transthyretin Amyloid Disease by Changing Protein Misfolding Energetics. <i>Science</i> , 2003, 299, 713-716.	6.0	491
84	Proteostasis Modulation Prevents Photoreceptor Pathology in Retinal Organoids. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1