

Jun Hee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

12,521
citations

66343

42
h-index

82547

72
g-index

82
all docs

82
docs citations

82
times ranked

24583
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Dietary and Genetic Obesity Promote Liver Inflammation and Tumorigenesis by Enhancing IL-6 and TNF Expression. <i>Cell</i> , 2010, 140, 197-208.	28.9	1,490
3	Sestrin as a Feedback Inhibitor of TOR That Prevents Age-Related Pathologies. <i>Science</i> , 2010, 327, 1223-1228.	12.6	512
4	m6A enhances the phase separation potential of mRNA. <i>Nature</i> , 2019, 571, 424-428.	27.8	460
5	Energy-dependent regulation of cell structure by AMP-activated protein kinase. <i>Nature</i> , 2007, 447, 1017-1020.	27.8	396
6	Sestrins Orchestrate Cellular Metabolism to Attenuate Aging. <i>Cell Metabolism</i> , 2013, 18, 792-801.	16.2	279
7	Maintenance of Metabolic Homeostasis by Sestrin2 and Sestrin3. <i>Cell Metabolism</i> , 2012, 16, 311-321.	16.2	242
8	Microscopic examination of spatial transcriptome using Seq-Scope. <i>Cell</i> , 2021, 184, 3559-3572.e22.	28.9	233
9	A sestrin-dependent Erk/Jnk/p38 MAPK activation complex inhibits immunity during aging. <i>Nature Immunology</i> , 2017, 18, 354-363.	14.5	223
10	Systematic Characterization of Stress-Induced RNA Granulation. <i>Molecular Cell</i> , 2018, 70, 175-187.e8.	9.7	190
11	Stressin' Sestrins take an aging fight. <i>EMBO Molecular Medicine</i> , 2010, 2, 388-400.	6.9	189
12	Liver Damage, Inflammation, and Enhanced Tumorigenesis after Persistent mTORC1 Inhibition. <i>Cell Metabolism</i> , 2014, 20, 133-144.	16.2	162
13	Mutation in ATG5 reduces autophagy and leads to ataxia with developmental delay. <i>ELife</i> , 2016, 5, .	6.0	161
14	Pharmacological correction of obesity-induced autophagy arrest using calcium channel blockers. <i>Nature Communications</i> , 2014, 5, 4834.	12.8	151
15	Hepatoprotective role of Sestrin2 against chronic ER stress. <i>Nature Communications</i> , 2014, 5, 4233.	12.8	148
16	Sestrin2 promotes LKB1-mediated AMPK activation in the ischemic heart. <i>FASEB Journal</i> , 2015, 29, 408-417.	0.5	143
17	Sestrins induce natural killer function in senescent-like CD8+ T cells. <i>Nature Immunology</i> , 2020, 21, 684-694.	14.5	139
18	Sestrin2 inhibits mTORC1 through modulation of GATOR complexes. <i>Scientific Reports</i> , 2015, 5, 9502.	3.3	137

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19	Magnetically Vected Nanocapsules for Tumor Penetration and Remotely Switchable On-Demand Drug Release. <i>Nano Letters</i> , 2010, 10, 5088-5092.	9.1	133
20	Caspar, a suppressor of antibacterial immunity in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16358-16363.	7.1	123
21	Janus-faced Sestrin2 controls ROS and mTOR signalling through two separate functional domains. <i>Nature Communications</i> , 2015, 6, 10025.	12.8	122
22	Discrete Functions of TRAF1 and TRAF2 in <i>Drosophila melanogaster</i> Mediated by c-Jun N-Terminal Kinase and NF- κ B-Dependent Signaling Pathways. <i>Molecular and Cellular Biology</i> , 2003, 23, 7982-7991.	2.3	103
23	Sestrin2 promotes Unc-51-like kinase 1 mediated phosphorylation of p62/sequestosome1. <i>FEBS Journal</i> , 2014, 281, 3816-3827.	4.7	93
24	Biochemical Basis of Sestrin Physiological Activities. <i>Trends in Biochemical Sciences</i> , 2016, 41, 621-632.	7.5	90
25	Long-Duration Three-Dimensional Spheroid Culture Promotes Angiogenic Activities of Adipose-Derived Mesenchymal Stem Cells. <i>Biomolecules and Therapeutics</i> , 2016, 24, 260-267.	2.4	88
26	Sestrin prevents atrophy of disused and aging muscles by integrating anabolic and catabolic signals. <i>Nature Communications</i> , 2020, 11, 189.	12.8	87
27	Sestrin2 inhibits uncoupling protein 1 expression through suppressing reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7849-7854.	7.1	75
28	Tumor suppressive role of sestrin2 during colitis and colon carcinogenesis. <i>ELife</i> , 2016, 5, e12204.	6.0	74
29	Sestrin regulation of TORC1: Is Sestrin a leucine sensor?. <i>Science Signaling</i> , 2016, 9, re5.	3.6	74
30	Sestrins are evolutionarily conserved mediators of exercise benefits. <i>Nature Communications</i> , 2020, 11, 190.	12.8	71
31	Lipotoxicity induces hepatic protein inclusions through TANK binding kinase 1-mediated p62/sequestosome 1 phosphorylation. <i>Hepatology</i> , 2018, 68, 1331-1346.	7.3	70
32	In vivo p53 function is indispensable for DNA damage-induced apoptotic signaling in <i>Drosophila</i> . <i>FEBS Letters</i> , 2003, 550, 5-10.	2.8	69
33	Inhibition of ERK-MAP kinase signaling by RSK during <i>Drosophila</i> development. <i>EMBO Journal</i> , 2006, 25, 3056-3067.	7.8	69
34	Fucoidan inhibits the migration and proliferation of HT-29 human colon cancer cells via the phosphoinositide-3 kinase/Akt/mechanistic target of rapamycin pathways. <i>Molecular Medicine Reports</i> , 2015, 12, 3446-3452.	2.4	67
35	Sestrins at the crossroad between stress and aging. <i>Aging</i> , 2010, 2, 369-374.	3.1	62
36	Calcium channel blockers as potential therapeutics for obesity-associated autophagy defects and fatty liver pathologies. <i>Autophagy</i> , 2014, 10, 2385-2386.	9.1	60

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37	Antitumor Effects of Fucoïdan on Human Colon Cancer Cells via Activation of Akt Signaling. <i>Biomolecules and Therapeutics</i> , 2015, 23, 225-232.	2.4	56
38	TED-Seq Identifies the Dynamics of Poly(A) Length during ER Stress. <i>Cell Reports</i> , 2018, 24, 3630-3641.e7.	6.4	54
39	<i>Drosophila</i> Fip200 is an essential regulator of autophagy that attenuates both growth and aging. <i>Autophagy</i> , 2013, 9, 1201-1213.	9.1	50
40	Fucoïdan protects mesenchymal stem cells against oxidative stress and enhances vascular regeneration in a murine hindlimb ischemia model. <i>International Journal of Cardiology</i> , 2015, 198, 187-195.	1.7	48
41	The Sulfated Polysaccharide Fucoïdan Rescues Senescence of Endothelial Colony-Forming Cells for Ischemic Repair. <i>Stem Cells</i> , 2015, 33, 1939-1951.	3.2	47
42	Pretreatment with Lycopene Attenuates Oxidative Stress-Induced Apoptosis in Human Mesenchymal Stem Cells. <i>Biomolecules and Therapeutics</i> , 2015, 23, 517-524.	2.4	47
43	CD34 Hybrid Cells Promote Endothelial Colony-Forming Cell Bioactivity and Therapeutic Potential for Ischemic Diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1622-1634.	2.4	45
44	The GATOR2-mTORC2 axis mediates Sestrin2-induced AKT Ser/Thr kinase activation. <i>Journal of Biological Chemistry</i> , 2020, 295, 1769-1780.	3.4	43
45	<i>Drosophila</i> Gyf/GRB10 interacting GYF protein is an autophagy regulator that controls neuron and muscle homeostasis. <i>Autophagy</i> , 2015, 11, 1358-1372.	9.1	41
46	Autophagy Dysregulation and Obesity-Associated Pathologies. <i>Molecules and Cells</i> , 2018, 41, 3-10.	2.6	41
47	MKP-3 Has Essential Roles as a Negative Regulator of the Ras/Mitogen-Activated Protein Kinase Pathway during <i>Drosophila</i> Development. <i>Molecular and Cellular Biology</i> , 2004, 24, 573-583.	2.3	40
48	Genistein Promotes Endothelial Colony-Forming Cell (ECFC) Bioactivities and Cardiac Regeneration in Myocardial Infarction. <i>PLoS ONE</i> , 2014, 9, e96155.	2.5	40
49	Single-Cell Transcriptome Analysis of Colon Cancer Cell Response to 5-Fluorouracil-Induced DNA Damage. <i>Cell Reports</i> , 2020, 32, 108077.	6.4	40
50	<i>Drosophila</i> PDZ-GEF, a Guanine Nucleotide Exchange Factor for Rap1 GTPase, Reveals a Novel Upstream Regulatory Mechanism in the Mitogen-Activated Protein Kinase Signaling Pathway. <i>Molecular and Cellular Biology</i> , 2002, 22, 7658-7666.	2.3	34
51	Cardioprotective roles of sestrin 1 and sestrin 2 against doxorubicin cardiotoxicity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H39-H48.	3.2	31
52	Diptericin-like protein: an immune response gene regulated by the anti-bacterial gene induction pathway in <i>Drosophila</i> . <i>Gene</i> , 2001, 271, 233-238.	2.2	30
53	Hypoxia accelerates vascular repair of endothelial colony-forming cells on ischemic injury via STAT3-BCL3 axis. <i>Stem Cell Research and Therapy</i> , 2015, 6, 139.	5.5	30
54	Dhh1 promotes autophagy-related protein translation during nitrogen starvation. <i>PLoS Biology</i> , 2019, 17, e3000219.	5.6	30

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55	Fucoidan improves bioactivity and vasculogenic potential of mesenchymal stem cells in murine hind limb ischemia associated with chronic kidney disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 97, 169-179.	1.9	28
56	Antioxidant effects of <i>Cirsium setidens</i> extract on oxidative stress in human mesenchymal stem cells. <i>Molecular Medicine Reports</i> , 2016, 14, 3777-3784.	2.4	28
57	Sestrins in Physiological Stress Responses. <i>Annual Review of Physiology</i> , 2021, 83, 381-403.	13.1	27
58	Autophagy and Human Neurodegenerative Diseases—A Fly’s Perspective. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1596.	4.1	23
59	Sestrin2, a Regulator of Thermogenesis and Mitohormesis in Brown Adipose Tissue. <i>Frontiers in Endocrinology</i> , 2015, 6, 114.	3.5	21
60	Identification of an AMPK Phosphorylation Site in <i>Drosophila</i> TSC2 (gigas) that Regulate Cell Growth. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7015-7026.	4.1	21
61	<i>Paeonia lactiflora</i> Enhances the Adhesion of Trophoblast to the Endometrium via Induction of Leukemia Inhibitory Factor Expression. <i>PLoS ONE</i> , 2016, 11, e0148232.	2.5	18
62	SIRT3 as a regulator of hepatic autophagy. <i>Hepatology</i> , 2017, 66, 700-702.	7.3	17
63	Holistic characterization of single-hepatocyte transcriptome responses to high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E244-E258.	3.5	17
64	Sestrins regulate muscle stem cell metabolic homeostasis. <i>Stem Cell Reports</i> , 2021, 16, 2078-2088.	4.8	17
65	p53-inducible SESTRINs might play opposite roles in the regulation of early and late stages of lung carcinogenesis. <i>Oncotarget</i> , 2019, 10, 6997-7009.	1.8	15
66	Concurrent activation of growth factor and nutrient arms of mTORC1 induces oxidative liver injury. <i>Cell Discovery</i> , 2019, 5, 60.	6.7	14
67	Clinical outcomes of operative repair of complete rupture of the proximal interphalangeal joint collateral ligament: Comparison with non-operative treatment. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , 2017, 51, 44-48.	0.8	8
68	Pathological Consequences of Hepatic mTORC1 Dysregulation. <i>Genes</i> , 2020, 11, 896.	2.4	8
69	Simultaneous loss of TSC1 and DEPDC5 in skeletal and cardiac muscles produces early-onset myopathy and cardiac dysfunction associated with oxidative damage and SQSTM1/p62 accumulation. <i>Autophagy</i> , 2022, 18, 2303-2322.	9.1	5
70	Externally triggered on-demand drug release and deep tumor penetration. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 02C102.	1.2	3
71	Inhibition of lewis lung cancer cell growth and migration by fucoidan. <i>Molecular and Cellular Toxicology</i> , 2014, 10, 269-276.	1.7	3
72	A Case of Aplastic Anemia Associated with Systemic Lupus Erythematosus: Successful Treatment with Cyclosporine. <i>The Journal of the Korean Rheumatism Association</i> , 2007, 14, 384.	0.1	0

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73	Sestrin2 is cardioprotective against ischemia/reperfusion injury by promoting LKB1-mediated AMPK activation. FASEB Journal, 2013, 27, 652.9.	0.5	0
74	Sestrin2 Supports Lung Tumor Growth in Early Stages of Cancer Development in Mice but Might Play a Tumor Suppressive Role in the Late Stages of Carcinogenesis. FASEB Journal, 2018, 32, lb150.	0.5	0