Takumi Koshiba

List of Publications by Year
in descending order

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51 papers	3,559 citations	218677 26 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	5032 citing authors

#	Article	IF	Citations
1	Mitochondrial reactive zones in antiviral innate immunity. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129839.	2.4	8
2	Mass spectrometry-based methods for analysing the mitochondrial interactome in mammalian cells. Journal of Biochemistry, 2020, 167, 225-231.	1.7	11
3	The microRNAs miR-302b and miR-372 regulate mitochondrial metabolism via the SLC25A12 transporter, which controls MAVS-mediated antiviral innate immunity. Journal of Biological Chemistry, 2020, 295, 444-457.	3.4	26
4	Mitochondria: In the Cross Fire of SARS-CoV-2 and Immunity. IScience, 2020, 23, 101631.	4.1	81
5	Influenza Virus-Induced Oxidized DNA Activates Inflammasomes. IScience, 2020, 23, 101270.	4.1	29
6	MAVS is energized by Mff which senses mitochondrial metabolism via AMPK for acute antiviral immunity. Nature Communications, 2020, 11, 5711.	12.8	25
7	Analysis of Mitochondrial Interactome in Living Cells. Seibutsu Butsuri, 2020, 60, 241-243.	0.1	0
8	Influenza A virus M2 protein triggers mitochondrial DNA-mediated antiviral immune responses. Nature Communications, 2019, 10, 4624.	12.8	123
9	Structural Basis of Mitochondrial Scaffolds by Prohibitin Complexes: Insight into a Role of the Coiled-Coil Region. IScience, 2019, 19, 1065-1078.	4.1	72
10	Herpes Simplex Virus 1 VP22 Inhibits AIM2-Dependent Inflammasome Activation to Enable Efficient Viral Replication. Cell Host and Microbe, 2018, 23, 254-265.e7.	11.0	109
11	Two Conserved Amino Acids within the NSs of Severe Fever with Thrombocytopenia Syndrome Phlebovirus Are Essential for Anti-interferon Activity. Journal of Virology, 2018, 92, .	3.4	35
12	RLR-mediated antiviral innate immunity requires oxidative phosphorylation activity. Scientific Reports, 2017, 7, 5379.	3.3	44
13	Evaluation of Mitochondrial Respiratory Activity Using a FRET-based Indicator for Intracellular ATP. Seibutsu Butsuri, 2017, 57, 268-270.	0.1	0
14	The RNA- and TRIM25-Binding Domains of Influenza Virus NS1 Protein Are Essential for Suppression of NLRP3 Inflammasome-Mediated Interleukin-1Î² Secretion. Journal of Virology, 2016, 90, 4105-4114.	3.4	85
15	Protein-protein interactions of mitochondrial-associated protein via bioluminescence resonance energy transfer. Biophysics and Physicobiology, 2015, 12, 31-35.	1.0	1
16	Crosslinking of a Peritrophic Matrix Protein Protects Gut Epithelia from Bacterial Exotoxins. PLoS Pathogens, 2015, 11, e1005244.	4.7	63
17	Factor B Is the Second Lipopolysaccharide-binding Protease Zymogen in the Horseshoe Crab Coagulation Cascade. Journal of Biological Chemistry, 2015, 290, 19379-19386.	3.4	18
18	Influenza A virus protein PB1-F2 translocates into mitochondria via Tom40 channels and impairs innate immunity. Nature Communications, 2014, 5, 4713.	12.8	181

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19	The N-terminal Arg Residue Is Essential for Autocatalytic Activation of a Lipopolysaccharide-responsive Protease Zymogen. Journal of Biological Chemistry, 2014, 289, 25987-25995.	3.4	16
20	Loss of Miro1-directed mitochondrial movement results in a novel murine model for neuron disease. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3631-40.	7.1	176
21	1P302 A structural analysis of the MAVS-regulatory mechanism using BRET(27. Bioimaging,Poster,The) Tj ETQq1 1 0.784314 rgBT /Ove	0.1	0
22	Fis1 acts as a mitochondrial recruitment factor for TBC1D15 that is involved in regulation of mitochondrial morphology. Journal of Cell Science, 2013, 126, 176-185.	2.0	117
23	Mitochondrial protein mitofusin 2 is required for NLRP3 inflammasome activation after RNA virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17963-17968.	7.1	226
24	A structural perspective of the MAVS-regulatory mechanism on the mitochondrial outer membrane using bioluminescence resonance energy transfer. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1017-1027.	4.1	27
25	Mitochondrial-mediated antiviral immunity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 225-232.	4.1	98
26	Transglutaminase-Catalyzed Protein-Protein Cross-Linking Suppresses the Activity of the NF-Î°Bâ€"Like Transcription Factor Relish. Science Signaling, 2013, 6, ra61.	3.6	44
27	Microbe-Specific C3b Deposition in the Horseshoe Crab Complement System in a C2/Factor B-Dependent or -Independent Manner. PLoS ONE, 2012, 7, e36783.	2.5	21
28	Mitochondrial Membrane Potential Is Required for MAVS-Mediated Antiviral Signaling. Science Signaling, 2011, 4, ra7.	3.6	203
29	Structure-Function Analysis of the Yeast Mitochondrial Rho GTPase, Gem1p. Journal of Biological Chemistry, 2011, 286, 354-362.	3.4	46
30	Mitochondria and antiviral innate immunity. International Journal of Biochemistry and Molecular Biology, 2011, 2, 257-62.	0.1	14
31	Protein Crosslinking by Transglutaminase Controls Cuticle Morphogenesis in Drosophila. PLoS ONE, 2010, 5, e13477.	2.5	43
32	Mitofusin 2 Inhibits Mitochondrial Antiviral Signaling. Science Signaling, 2009, 2, ra47.	3.6	206
33	Factor G Utilizes a Carbohydrate-Binding Cleft That Is Conserved between Horseshoe Crab and Bacteria for the Recognition of Î²-1,3-<scp>d</scp>-Glucans. Journal of Immunology, 2009, 183, 3810-3818.	0.8	11
34	Factor C Acts as a Lipopolysaccharide-Responsive C3 Convertase in Horseshoe Crab Complement Activation. Journal of Immunology, 2008, 181, 7994-8001.	0.8	59
35	Structural Evidence for Endocrine Disruptor Bisphenol A Binding to Human Nuclear Receptor ERRÂ. Journal of Biochemistry, 2007, 142, 517-524.	1.7	206
36	An Arthropod Cuticular Chitin-binding Protein Endows Injured Sites with Transglutaminase-dependent Mesh. Journal of Biological Chemistry, 2007, 282, 37316-37324.	3.4	23

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37	A Structural Perspective on the Interaction between Lipopolysaccharide and Factor C, a Receptor Involved in Recognition of Gram-negative Bacteria. Journal of Biological Chemistry, 2007, 282, 3962-3967.	3.4	55
38	A Cysteine-rich Protein from an Arthropod Stabilizes Clotting Mesh and Immobilizes Bacteria at Injury Sites. Journal of Biological Chemistry, 2007, 282, 33545-33552.	3.4	23
39	Crystallization of a 2:2 complex of granulocyte-colony stimulating factor (GCSF) with the ligand-binding region of the GCSF receptor. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 788-790.	0.7	5
40	Characterization of Kinetic Folding Intermediates of Recombinant Canine Milk Lysozyme by Stopped-Flow Circular Dichroismâ€. Biochemistry, 2005, 44, 6685-6692.	2.5	17
41	An Organelle Membrane Fusion; Mitochondrial Fusion. Seibutsu Butsuri, 2005, 45, 243-246.	0.1	1
42	Thermodynamic Analysis of the Activation Mechanism of the GCSF Receptor Induced by Ligand Binding. Biochemistry, 2004, 43, 2458-2464.	2.5	11
43	Structural Basis of Mitochondrial Tethering by Mitofusin Complexes. Science, 2004, 305, 858-862.	12.6	756
44	The Prefusogenic Intermediate of HIV-1 gp41 Contains Exposed C-peptide Regions. Journal of Biological Chemistry, 2003, 278, 7573-7579.	3.4	111
45	Folding mechanism of canine milk lysozyme studied by circular dichroism and fluorescence spectroscopy. Spectroscopy, 2003, 17, 183-193.	0.8	7
46	Oxidative folding of human lysozyme: effects of the loss of two disulfide bonds and the introduction of a calcium-binding site. The Protein Journal, 2001, 20, 293-303.	1.1	1
47	Assignment of 1H, 13C, and 15N resonances of canine milk lysozyme. Journal of Biomolecular NMR, 2001, 19, 387-388.	2.8	1
48	Energetics of three-state unfolding of a protein: canine milk lysozyme. Protein Engineering, Design and Selection, 2001, 14, 967-974.	2.1	13
49	Hydrogen exchange study of canine milk lysozyme: Stabilization mechanism of the molten globule. Proteins: Structure, Function and Bioinformatics, 2000, 40, 579-589.	2.6	31
50	Structure and Thermodynamics of the Extraordinarily Stable Molten Globule State of Canine Milk Lysozymeâ€,â€¡. Biochemistry, 2000, 39, 3248-3257.	2.5	51
51	Expression of a synthetic gene encoding canine milk lysozyme in Escherichia coli and characterization of the expressed protein. Protein Engineering, Design and Selection, 1999, 12, 429-435.	2.1	27