Toshiyuki Fukada

List of Publications by Year
in descending order

76 papers	8,559 citations	61984 43 h-index	82547 72 g-index
80 all docs	80 docs citations	80 times ranked	9919 citing authors

#	Article	IF	Citations
1	Reversible Oxidation and Inactivation of Protein Tyrosine Phosphatases In Vivo. Molecular Cell, 2002, 9, 387-399.	9.7	963
2	Two Signals Are Necessary for Cell Proliferation Induced by a Cytokine Receptor gp130: Involvement of STAT3 in Anti-Apoptosis. Immunity, 1996, 5, 449-460.	14.3	618
3	Zinc homeostasis and signaling in health and diseases. Journal of Biological Inorganic Chemistry, 2011, 16, 1123-1134.	2.6	480
4	Synergistic Roles for Pim-1 and c-Myc in STAT3-Mediated Cell Cycle Progression and Antiapoptosis. Immunity, 1999, 11, 709-719.	14.3	393
5	STAT3 Is Required for the gp130-mediated Full Activation of the c-myc Gene. Journal of Experimental Medicine, 1999, 189, 63-73.	8.5	365
6	Zinc transporter LIVI controls epithelial-mesenchymal transition in zebrafish gastrula organizer. Nature, 2004, 429, 298-302.	27.8	342
7	Toll-like receptorâ€“mediated regulation of zinc homeostasis influences dendritic cell function. Nature Immunology, 2006, 7, 971-977.	14.5	326
8	Physiological roles of zinc transporters: molecular and genetic importance in zinc homeostasis. Journal of Physiological Sciences, 2017, 67, 283-301.	2.1	323
9	A genomic perspective on protein tyrosine phosphatases: gene structure, pseudogenes, and genetic disease linkage. FASEB Journal, 2004, 18, 8-30.	0.5	277
10	Gab1 Acts as an Adapter Molecule Linking the Cytokine Receptor gp130 to ERK Mitogen-Activated Protein Kinase. Molecular and Cellular Biology, 1998, 18, 4109-4117.	2.3	258
11	Molecular and genetic features of zinc transporters in physiology and pathogenesis. Metallomics, 2011, 3, 662.	2.4	250
12	The Zinc Transporter SLC39A13/ZIP13 Is Required for Connective Tissue Development; Its Involvement in BMP/TGF-Î² Signaling Pathways. PLoS ONE, 2008, 3, e3642.	2.5	240
13	Dissection of Signaling Cascades through gp130 In Vivo. Immunity, 2000, 12, 95-105.	14.3	230
14	Roles of Zinc and Zinc Signaling in Immunity: Zinc as an Intracellular Signaling Molecule. Advances in Immunology, 2008, 97, 149-176.	2.2	209
15	The diabetes-susceptible gene SLC30A8/ZnT8 regulates hepatic insulin clearance. Journal of Clinical Investigation, 2013, 123, 4513-4524.	8.2	200
16	Roles of Zinc Signaling in the Immune System. Journal of Immunology Research, 2016, 2016, 1-21.	2.2	177
17	SLC39A14 Is Required for the Development of Hepatocellular Iron Overload in Murine Models of Hereditary Hemochromatosis. Cell Metabolism, 2015, 22, 138-150.	16.2	171
18	An alternative pathway for STAT activation that is mediated by the direct interaction between JAK and STAT. Oncogene, 1997, 14, 751-761.	5.9	148

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19	The Zinc Transporter SLC39A14/ZIP14 Controls G-Protein Coupled Receptor-Mediated Signaling Required for Systemic Growth. PLoS ONE, 2011, 6, e18059.	2.5	147
20	Zinc suppresses Th17 development via inhibition of STAT3 activation. International Immunology, 2010, 22, 375-386.	4.0	143
21	Biochemical Characterization of Human ZIP13 Protein. Journal of Biological Chemistry, 2011, 286, 40255-40265.	3.4	139
22	ZIP14 and DMT1 in the liver, pancreas, and heart are differentially regulated by iron deficiency and overload: implications for tissue iron uptake in iron-related disorders. Haematologica, 2013, 98, 1049-1057.	3.5	134
23	Metastatic cancers promote cachexia through ZIP14 upregulation in skeletal muscle. Nature Medicine, 2018, 24, 770-781.	30.7	121
24	Activation of Fes Tyrosine Kinase by gp130, an Interleukin-6 Family Cytokine Signal Transducer, and Their Association. Journal of Biological Chemistry, 1995, 270, 11037-11039.	3.4	116
25	Zinc transporter SLC39A10/ZIP10 facilitates antiapoptotic signaling during early B-cell development. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11780-11785.	7.1	107
26	Zinc transporter SLC39A10/ZIP10 controls humoral immunity by modulating B-cell receptor signal strength. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11786-11791.	7.1	103
27	SLC39A14 deficiency alters manganese homeostasis and excretion resulting in brain manganese accumulation and motor deficits in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1769-E1778.	7.1	99
28	Generation of orthotopically functional salivary gland from embryonic stem cells. Nature Communications, 2018, 9, 4216.	12.8	97
29	Manganese transporter Slc39a14 deficiency revealed its key role in maintaining manganese homeostasis in mice. Cell Discovery, 2017, 3, 17025.	6.7	87
30	Tec tyrosine kinase links the cytokine receptors to PI-3 kinase probably through JAK. Oncogene, 1997, 14, 2273-2282.	5.9	86
31	Zinc Transporter SLC39A7/ZIP7 Promotes Intestinal Epithelial Self-Renewal by Resolving ER Stress. PLoS Genetics, 2016, 12, e1006349.	3.5	80
32	A Rac GTPase-Activating Protein, MgcRacGAP, Is a Nuclear Localizing Signal-Containing Nuclear Chaperone in the Activation of STAT Transcription Factors. Molecular and Cellular Biology, 2009, 29, 1796-1813.	2.3	70
33	Recent Advances in the Role of SLC39A/ZIP Zinc Transporters In Vivo. International Journal of Molecular Sciences, 2017, 18, 2708.	4.1	68
34	Zinc transporters and signaling in physiology and pathogenesis. Archives of Biochemistry and Biophysics, 2016, 611, 43-50.	3.0	63
35	A Novel Role of the L-Type Calcium Channel Î±1D Subunit as a Gatekeeper for Intracellular Zinc Signaling: Zinc Wave. PLoS ONE, 2012, 7, e39654.	2.5	58
36	The Reciprocal Role of Egr-1 and Sp Family Proteins in Regulation of the PTP1B Promoter in Response to the p210 Bcr-Abl Oncoprotein-tyrosine Kinase. Journal of Biological Chemistry, 2001, 276, 25512-25519.	3.4	57

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37	Zinc signal: a new player in osteobiology. Journal of Bone and Mineral Metabolism, 2013, 31, 129-135.	2.7	57
38	Hyperactivation of JAK1 tyrosine kinase induces stepwise, progressive pruritic dermatitis. Journal of Clinical Investigation, 2016, 126, 2064-2076.	8.2	57
39	Molecular pathogenesis of Spondylocheirodysplastic Ehlersâ€Danlos syndrome caused by mutant ZIP13 proteins. EMBO Molecular Medicine, 2014, 6, 1028-1042.	6.9	56
40	Identification of YB-1 as a regulator of PTP1B expression: implications for regulation of insulin and cytokine signaling. EMBO Journal, 2003, 22, 479-493.	7.8	55
41	Requirement of Zinc Transporter SLC39A7/ZIP7 for Dermal Development to Fine-Tune Endoplasmic Reticulum Function by Regulating Protein Disulfide Isomerase. Journal of Investigative Dermatology, 2017, 137, 1682-1691.	0.7	55
42	Zinc transporter ZIP13 suppresses beige adipocyte biogenesis and energy expenditure by regulating C/EBP-Î² expression. PLoS Genetics, 2017, 13, e1006950.	3.5	50
43	Requirement of zinc transporter ZIP10 for epidermal development: Implication of the ZIP10â€“p63 axis in epithelial homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12243-12248.	7.1	45
44	Contribution of Zinc and Zinc Transporters in the Pathogenesis of Inflammatory Bowel Diseases. Journal of Immunology Research, 2019, 2019, 1-11.	2.2	41
45	Zinc transporters as potential therapeutic targets: An updated review. Journal of Pharmacological Sciences, 2022, 148, 221-228.	2.5	36
46	An Acrodermatitis Enteropathica-Associated Zn Transporter, ZIP4, Regulates Human Epidermal Homeostasis. Journal of Investigative Dermatology, 2017, 137, 874-883.	0.7	33
47	Signaling Through Gp130: Toward a General Scenario of Cytokine Action. Growth Factors, 1999, 17, 81-91.	1.7	27
48	Comparing Gene Expression during Cadmium Uptake and Distribution: Untreated versus Oral Cd-Treated Wild-Type and ZIP14 Knockout Mice. Toxicological Sciences, 2015, 143, 26-35.	3.1	25
49	Spondylocheirodysplastic Ehlers-Danlos syndrome (SCD-EDS) and the mutant zinc transporter ZIP13. Rare Diseases (Austin, Tex), 2014, 2, e974982.	1.8	24
50	The Role of the Slc39a Family of Zinc Transporters in Zinc Homeostasis in Skin. Nutrients, 2018, 10, 219.	4.1	20
51	Maintenance of Intestinal Epithelial Homeostasis by Zinc Transporters. Digestive Diseases and Sciences, 2019, 64, 2404-2415.	2.3	20
52	Revisiting the old and learning the new of zinc in immunity. Nature Immunology, 2019, 20, 248-250.	14.5	20
53	Slc39a13/Zip13: A Crucial Zinc Transporter Involved in Tooth Development and Inherited Disorders. Journal of Oral Biosciences, 2011, 53, 1-12.	2.2	17
54	Biliary excretion of excess iron in mice requires hepatocyte iron import by Slc39a14. Journal of Biological Chemistry, 2021, 297, 100835.	3.4	17

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55	Critical involvement of ZEB2 in collagen fibrillogenesis: the molecular similarity between Mowat-Wilson syndrome and Ehlers-Danlos syndrome. Scientific Reports, 2017, 7, 46565.	3.3	14
56	Welcome to the World of Zinc Signaling. International Journal of Molecular Sciences, 2018, 19, 785.	4.1	13
57	Sox9 regulates the luminal stem/progenitor cell properties of salivary glands. Experimental Cell Research, 2019, 382, 111449.	2.6	13
58	Zinc Signal in Growth Control and Bone Diseases. , 2014, , 249-267.		11
59	Disruption of the mouse <i>Slc39a14</i> gene encoding zinc transporter <scp>ZIP</scp>14 is associated with decreased bone mass, likely caused by enhanced bone resorption. FEBS Open Bio, 2018, 8, 655-663.	2.3	10
60	Comparative study of dermal components and plasma TGF-Î²1 levels in <i>Slc39a13/Zip13</i>-KO mice. Journal of Veterinary Medical Science, 2015, 77, 1385-1389.	0.9	7
61	Possible involvement of zinc transporter ZIP10 in atopic dermatitis. Journal of Dermatology, 2020, 47, e51-e53.	1.2	7
62	Histological Analysis of Dentinogenesis Imperfecta in Slc39a13/Zip13 Knockout Mice. Journal of Hard Tissue Biology, 2014, 23, 163-168.	0.4	5
63	Morphometric analysis of thoracic aorta in Slc39a13/Zip13-KO mice. Cell and Tissue Research, 2019, 376, 137-141.	2.9	5
64	PLAG1 enhances the stemness profiles of acinar cells in normal human salivary glands in a cell type-specific manner. Journal of Oral Biosciences, 2020, 62, 99-106.	2.2	5
65	Morphometric analysis of cornea in the <i>Slc39a13</i>/<i>Zip13</i>-knockout mice. Journal of Veterinary Medical Science, 2018, 80, 814-818.	0.9	4
66	Editorial: The cutting edge of zinc biology. Archives of Biochemistry and Biophysics, 2016, 611, 1-2.	3.0	3
67	Role of Zinc Transporter ZIP13 in Degenerative Changes in Periodontal Ligament and Alveolar Bone. Journal of Hard Tissue Biology, 2016, 25, 49-56.	0.4	3
68	Identification of 1-Kestose- and Neokestose-based Oligofruetans in<i>Lycoris radiata</i>Herb Tissues. Agricultural and Biological Chemistry, 1990, 54, 1291-1292.	0.3	2
69	Dysregulated zinc homeostasis in rare skin disorders. Expert Opinion on Orphan Drugs, 2017, 5, 865-873.	0.8	2
70	Characterization of in vitro models of SLC30A10 deficiency. BioMetals, 2021, 34, 573-588.	4.1	2
71	Rat mandibular condyle and fossa grew separately then unified as a single joint at 20 days old, which was the weaning age. Journal of Oral Science, 2020, 62, 197-201.	1.7	1
72	Implication of the zinc-epigenetic axis in epidermal homeostasis. Journal of Dermatological Science, 2020, 98, 203-206.	1.9	0

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73	Zinc transporters in physiology and pathophysiology. , 2020, , 55-67.		0
74	Zinc transporter SLC39A7/ZIP7 is essential for intestinal homeostatic self-renewal. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-6-37.	0.0	0
75	Zinc Transporters and Zinc Signaling in Skin Formation and Diseases. , 2019, , 305-317.		0
76	Opening the Second Era of Zinc Signaling Study. , 2019, , 1-4.		0