

# Ikuo Wada

## List of Publications by Year in descending order

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71102

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docs citations

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times ranked

5762  
citing authors

#	ARTICLE	IF	CITATIONS
1	EDEM As an Acceptor of Terminally Misfolded Glycoproteins Released from Calnexin. <i>Science</i> , 2003, 299, 1394-1397.	12.6	424
2	A novel ER $\alpha$ -mannosidase-like protein accelerates ER-associated degradation. <i>EMBO Reports</i> , 2001, 2, 415-422.	4.5	421
3	The putative chaperone calmeglin is required for sperm fertility. <i>Nature</i> , 1997, 387, 607-611.	27.8	273
4	Human M-Ficolin Is a Secretory Protein That Activates the Lectin Complement Pathway. <i>Journal of Immunology</i> , 2005, 175, 3150-3156.	0.8	234
5	EDEM3, a Soluble EDEM Homolog, Enhances Glycoprotein Endoplasmic Reticulum-associated Degradation and Mannose Trimming. <i>Journal of Biological Chemistry</i> , 2006, 281, 9650-9658.	3.4	218
6	Enhancement of Endoplasmic Reticulum (ER) Degradation of Misfolded Null Hong Kong $\alpha$ 1-Antitrypsin by Human ER Mannosidase I. <i>Journal of Biological Chemistry</i> , 2003, 278, 26287-26294.	3.4	184
7	Cyclic AMP induces phosphorylation of claudin-5 immunoprecipitates and expression of claudin-5 gene in blood-brain-barrier endothelial cells via protein kinase A-dependent and -independent pathways. <i>Experimental Cell Research</i> , 2003, 290, 275-288.	2.6	176
8	Human XTP3-B Forms an Endoplasmic Reticulum Quality Control Scaffold with the HRD1-SEL1L Ubiquitin Ligase Complex and BiP. <i>Journal of Biological Chemistry</i> , 2008, 283, 20914-20924.	3.4	163
9	Molecular Cloning of a Novel Diacylglycerol Kinase Isozyme with a Pleckstrin Homology Domain and a C-terminal Tail Similar to Those of the EPH Family of Protein-tyrosine Kinases. <i>Journal of Biological Chemistry</i> , 1996, 271, 8394-8401.	3.4	155
10	Cloning and Characterization of Two Human Isozymes of Mg <sup>2+</sup> -independent Phosphatidic Acid Phosphatase. <i>Journal of Biological Chemistry</i> , 1997, 272, 24572-24578.	3.4	153
11	Oculocutaneous albinism types 1 and 3 are ER retention diseases: mutation of tyrosinase or Tyrp1 can affect the processing of both mutant and wild-type proteins. <i>FASEB Journal</i> , 2001, 15, 2149-2161.	0.5	146
12	Chaperone Function of Calreticulin When Expressed in the Endoplasmic Reticulum as the Membrane-anchored and Soluble Forms. <i>Journal of Biological Chemistry</i> , 1995, 270, 20298-20304.	3.4	139
13	Calsperin Is a Testis-specific Chaperone Required for Sperm Fertility. <i>Journal of Biological Chemistry</i> , 2011, 286, 5639-5646.	3.4	128
14	Calmeglin Is Required for Fertilin $\alpha$ 1/ $\beta$ 2 Heterodimerization and Sperm Fertility. <i>Developmental Biology</i> , 2001, 240, 254-261.	2.0	124
15	The molecular basis of oculocutaneous albinism type 1 (OCA1): sorting failure and degradation of mutant tyrosinases results in a lack of pigmentation. <i>Biochemical Journal</i> , 2001, 355, 259-269.	3.7	118
16	EDEM1 accelerates the trimming of $\alpha$ 1,2-linked mannose on the C branch of N-glycans. <i>Glycobiology</i> , 2010, 20, 567-575.	2.5	115
17	A tissue-engineered trachea derived from a framed collagen scaffold, gingival fibroblasts and adipose-derived stem cells. <i>Biomaterials</i> , 2010, 31, 4855-4863.	11.4	107
18	Identification and cDNA Cloning of 35-kDa Phosphatidic Acid Phosphatase (Type 2) Bound to Plasma Membranes. <i>Journal of Biological Chemistry</i> , 1996, 271, 18931-18938.	3.4	103

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19	Direct detection of caspase-3 activation in single live cells by cross-correlation analysis. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 849-854.	2.1	89
20	Î”F508 CFTR Pool in the Endoplasmic Reticulum Is Increased by Calnexin Overexpression. <i>Molecular Biology of the Cell</i> , 2004, 15, 563-574.	2.1	87
21	Oocyte-triggered dimerization of sperm IZUMO1 promotes sperm-egg fusion in mice. <i>Nature Communications</i> , 2015, 6, 8858.	12.8	87
22	Involvement of Syntaxin 18, an Endoplasmic Reticulum (ER)-localized SNARE Protein, in ER-mediated Phagocytosis. <i>Molecular Biology of the Cell</i> , 2006, 17, 3964-3977.	2.1	83
23	SEL1L Protein Critically Determines the Stability of the HRD1-SEL1L Endoplasmic Reticulum-associated Degradation (ERAD) Complex to Optimize the Degradation Kinetics of ERAD Substrates. <i>Journal of Biological Chemistry</i> , 2011, 286, 16929-16939.	3.4	79
24	The C-terminal part of diacylglycerol kinase Î± lacking zinc fingers serves as a catalytic domain. <i>Biochemical Journal</i> , 1996, 318, 583-590.	3.7	72
25	Diacylglycerol Kinase Î± Suppresses ER-to-Golgi Traffic via Its SAM and PH Domains. <i>Molecular Biology of the Cell</i> , 2002, 13, 302-316.	2.1	70
26	EDEM accelerates ERAD by preventing aberrant dimer formation of misfolded Î±1-antitrypsin. <i>Genes To Cells</i> , 2006, 11, 465-476.	1.2	70
27	Regeneration of the Trachea Using a Bioengineered Scaffold with Adipose-Derived Stem Cells. <i>Annals of Otology, Rhinology and Laryngology</i> , 2008, 117, 453-463.	1.1	69
28	STT3B-Dependent Posttranslational N-Glycosylation as a Surveillance System for Secretory Protein. <i>Molecular Cell</i> , 2012, 47, 99-110.	9.7	69
29	The molecular basis of oculocutaneous albinism type 1 (OCA1): sorting failure and degradation of mutant tyrosinases results in a lack of pigmentation. <i>Biochemical Journal</i> , 2001, 355, 259.	3.7	63
30	Meltrin ? (ADAM19) mediates ectodomain shedding of Neuregulin ?1 in the Golgi apparatus: fluorescence correlation spectroscopic observation of the dynamics of ectodomain shedding in living cells. <i>Genes To Cells</i> , 2007, 12, 329-343.	1.2	59
31	Mice Deficient in Ficolin, a Lectin Complement Pathway Recognition Molecule, Are Susceptible to <i>Streptococcus pneumoniae</i> Infection. <i>Journal of Immunology</i> , 2012, 189, 5860-5866.	0.8	59
32	CK2 phosphorylation of eukaryotic translation initiation factor 5 potentiates cell cycle progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15688-15693.	7.1	57
33	WAVE/Scars in platelets. <i>Blood</i> , 2005, 105, 3141-3148.	1.4	53
34	Development of Cysteine-Free Fluorescent Proteins for the Oxidative Environment. <i>PLoS ONE</i> , 2012, 7, e37551.	2.5	53
35	Extracellular Toll-Like Receptor 2 Region Containing Ser40-Ile64 but Not Cys30-Ser39 Is Critical for the Recognition of <i>Staphylococcus aureus</i> Peptidoglycan. <i>Journal of Biological Chemistry</i> , 2001, 276, 41350-41356.	3.4	52
36	Evolutionarily conserved sperm factors, DCST1 and DCST2, are required for gamete fusion. <i>ELife</i> , 2021, 10, .	6.0	51

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37	CrkL Directs ASAP1 to Peripheral Focal Adhesions. <i>Journal of Biological Chemistry</i> , 2003, 278, 6456-6460.	3.4	49
38	Ypt11 Functions in Bud-Directed Transport of the Golgi by Linking Myo2 to the Coatamer Subunit Ret2. <i>Current Biology</i> , 2008, 18, 987-991.	3.9	49
39	Diacylglycerol kinase and phosphatidic acid phosphatase enzymes metabolizing lipid second messengers. <i>Cellular Signalling</i> , 1993, 5, 495-503.	3.6	47
40	Effect of Fibroblasts on Epithelial Regeneration on the Surface of a Bioengineered Trachea. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2008, 117, 59-64.	1.1	45
41	Calreticulin Negatively Regulates the Cell Surface Expression of Cystic Fibrosis Transmembrane Conductance Regulator. <i>Journal of Biological Chemistry</i> , 2006, 281, 12841-12848.	3.4	42
42	Multiple small intestinal stromal tumors with skeinoid fibers in association with neurofibromatosis 1 (von Recklinghausen's disease). <i>Pathology International</i> , 1996, 46, 689-695.	1.3	41
43	Sec22b Is a Negative Regulator of Phagocytosis in Macrophages. <i>Molecular Biology of the Cell</i> , 2009, 20, 4435-4443.	2.1	40
44	Tyrosinase and Tyrosinase-Related Protein 1 Require Rab7 for Their Intracellular Transport. <i>Journal of Investigative Dermatology</i> , 2002, 119, 475-480.	0.7	39
45	SNAP-23 regulates phagosome formation and maturation in macrophages. <i>Molecular Biology of the Cell</i> , 2012, 23, 4849-4863.	2.1	39
46	The ALG-2 Binding Site in Sec31A Influences the Retention Kinetics of Sec31A at the Endoplasmic Reticulum Exit Sites as Revealed by Live-Cell Time-Lapse Imaging. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1819-1826.	1.3	38
47	Failure to detect genetic alteration of the mannose-6-phosphate/insulin-like growth factor 2 receptor (M6P/IGF2R) gene in hepatocellular carcinomas in Japan. <i>Hepatology</i> , 1999, 29, 1718-1721.	7.3	37
48	Differential localization of lipid phosphate phosphatases 1 and 3 to cell surface subdomains in polarized MDCK cells. <i>FEBS Letters</i> , 2003, 552, 240-246.	2.8	36
49	Tissue Engineering for Regeneration of the Tracheal Epithelium. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2006, 115, 501-506.	1.1	34
50	Evaluation of the Use of Induced Pluripotent Stem Cells (iPSCs) for the Regeneration of Tracheal Cartilage. <i>Cell Transplantation</i> , 2013, 22, 341-353.	2.5	33
51	Translocation of diacylglycerol kinase $\delta$ to the nuclear matrix of rat thymocytes and peripheral T-lymphocytes. <i>FEBS Letters</i> , 1996, 393, 48-52.	2.8	32
52	Phosphatidic acid phosphatase from mammalian tissues: discovery of channel-like proteins with unexpected functions. <i>Lipids and Lipid Metabolism</i> , 1997, 1348, 56-62.	2.6	30
53	ER-resident protein 46 (ERp46) triggers the mannose-trimming activity of ER degradation-enhancing $\delta$ -mannosidase-like protein 3 (EDEM3). <i>Journal of Biological Chemistry</i> , 2018, 293, 10663-10674.	3.4	29
54	Role of calnexin in the ER quality control and productive folding of CFTR; differential effect of calnexin knockout on wild-type and $\Delta$ F508 CFTR. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1585-1594.	4.1	27

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55	Involvement of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger in migration and contraction of rat cultured tendon fibroblasts. <i>Journal of Physiology</i> , 2009, 587, 5345-5359.	2.9	27
56	Involvement of a Novel Q-SNARE, D12, in Quality Control of the Endomembrane System. <i>Journal of Biological Chemistry</i> , 2006, 281, 4495-4506.	3.4	26
57	Regulated motion of glycoproteins revealed by direct visualization of a single cargo in the endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2008, 180, 129-143.	5.2	26
58	Structural change of N-glycan exposes hydrophobic surface of human transferrin. <i>Glycobiology</i> , 2014, 24, 693-702.	2.5	26
59	Endoplasmic reticulum proteins SDF2 and SDF2L1 act as components of the BiP chaperone cycle to prevent protein aggregation. <i>Genes To Cells</i> , 2017, 22, 684-698.	1.2	26
60	Autoantibody to alanyl-tRNA synthetase in patients with idiopathic pulmonary fibrosis. <i>Respirology</i> , 2007, 12, 642-653.	2.3	25
61	Inhibition of Rab1 GTPase and Endoplasmic Reticulum-to-Golgi Trafficking Underlies Statin's Toxicity in Rat Skeletal Myofibers. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 338, 62-69.	2.5	25
62	Complex formation of sphingomyelin synthase 1 with glucosylceramide synthase increases sphingomyelin and decreases glucosylceramide levels. <i>Journal of Biological Chemistry</i> , 2018, 293, 17505-17522.	3.4	25
63	Molecular characterization of the type 2 phosphatidic acid phosphatase. <i>Chemistry and Physics of Lipids</i> , 1999, 98, 119-126.	3.2	23
64	Involvement of membrane type 1 matrix metalloproteinase (MT1-MMP) in RAGE activation signaling pathways. <i>Journal of Cellular Physiology</i> , 2011, 226, 1554-1563.	4.1	22
65	Unveiling a novel function of CD9 in surface compartmentalization of oocytes. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	22
66	Potential of Induced Pluripotent Stem Cells for the Regeneration of the Tracheal Wall. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2010, 119, 697-703.	1.1	21
67	Regulation of Immature Protein Dynamics in the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2004, 279, 21533-21542.	3.4	19
68	Insulin receptor activation through its accumulation in lipid rafts by mild electrical stress. <i>Journal of Cellular Physiology</i> , 2013, 228, 439-446.	4.1	19
69	Calnexin <sup>185-520</sup> partially reverses the misprocessing of the <sup>185</sup> F508 cystic fibrosis transmembrane conductance regulator1. <i>FEBS Letters</i> , 2002, 526, 87-92.	2.8	17
70	Monitoring dimeric status of IZUMO1 during the acrosome reaction in living spermatozoon. <i>Cell Cycle</i> , 2018, 17, 1279-1285.	2.6	17
71	SDF2-like protein 1 (SDF2L1) regulates the endoplasmic reticulum localization and chaperone activity of ERdj3 protein. <i>Journal of Biological Chemistry</i> , 2019, 294, 19335-19348.	3.4	17
72	Carboxyl-Terminal Disulfide Bond of Acid Sphingomyelinase Is Critical for Its Secretion and Enzymatic Function. <i>Biochemistry</i> , 2007, 46, 14969-14978.	2.5	16

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73	Association of the SEL1L protein transmembrane domain with HRD1 ubiquitin ligase regulates ERAD $\Delta$ L. FEBS Journal, 2016, 283, 157-172.	4.7	16
74	Integrative genome analysis identified the KANNO blood group antigen as prion protein. Transfusion, 2019, 59, 2429-2435.	1.6	16
75	Evidence for Distinct Membrane Traffic Pathways to Melanosomes and Lysosomes in Melanocytes. Journal of Investigative Dermatology Symposium Proceedings, 2001, 6, 19-24.	0.8	15
76	Uninephrectomy induces progressive glomerulosclerosis and apoptosis in anti $\alpha$ Thy1 glomerulonephritis. Pathology International, 2005, 55, 19-26.	1.3	15
77	Regenerative process of tracheal epithelium using a collagen vitrigel sponge scaffold. Laryngoscope, 2013, 123, 1469-1473.	2.0	14
78	Characterization of the Trafficking Pathway of Cystic Fibrosis Transmembrane Conductance Regulator in Baby Hamster Kidney Cells. Journal of Pharmacological Sciences, 2004, 95, 471-475.	2.5	13
79	Autofluorescence of the Cells in Human Subretinal Fluid. , 2011, 52, 8534.		13
80	A Critical Role for the Carboxy Terminal Region of the Proprotein Convertase, PACE4A, in the Regulation of Its Autocatalytic Activation Coupled with Secretion. Biochemical and Biophysical Research Communications, 2002, 290, 878-884.	2.1	11
81	Stepwise Assembly of Fibrinogen Is Assisted by the Endoplasmic Reticulum Lectin-Chaperone System in HepG2 Cells. PLoS ONE, 2013, 8, e74580.	2.5	11
82	Bioengineered Trachea with Fibroblasts in a Rabbit Model. Annals of Otolaryngology, Rhinology and Laryngology, 2010, 119, 796-804.	1.1	10
83	Generation of airway epithelial cells with native characteristics from mouse induced pluripotent stem cells. Cell and Tissue Research, 2016, 364, 319-330.	2.9	10
84	Phosphorylation of SNAP-23 at Ser95 causes a structural alteration and negatively regulates Fc receptor $\alpha$ mediated phagosome formation and maturation in macrophages. Molecular Biology of the Cell, 2018, 29, 1753-1762.	2.1	10
85	Heparin cross-linked collagen sponge scaffolds improve functional regeneration of rat tracheal epithelium. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3027-3037.	2.7	9
86	Carboxyl-terminal Tail-mediated Homodimerizations of Sphingomyelin Synthases Are Responsible for Efficient Export from the Endoplasmic Reticulum. Journal of Biological Chemistry, 2017, 292, 1122-1141.	3.4	8
87	Potential for Respiratory Epithelium Regeneration from Induced Pluripotent Stem Cells. Annals of Otolaryngology, Rhinology and Laryngology, 2013, 122, 25-32.	1.1	7
88	Potential of laryngeal muscle regeneration using induced pluripotent stem cell-derived skeletal muscle cells. Acta Oto-Laryngologica, 2016, 136, 391-396.	0.9	7
89	Ex vivo Pretreatment of Islets with Mitomycin C. Cell Transplantation, 2017, 26, 1392-1404.	2.5	7
90	Phosphorylation of human phospholipase A1 DDHD1 at newly identified phosphosites affects its subcellular localization. Journal of Biological Chemistry, 2021, 297, 100851.	3.4	7

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91	Molecular properties of enzymes involved in diacylglycerol and phosphatidate metabolism. <i>Journal of Lipid Mediators and Cell Signalling</i> , 1996, 14, 245-250.	0.9	6
92	Effective embryoid body formation from induced pluripotent stem cells for regeneration of respiratory epithelium. <i>Laryngoscope</i> , 2014, 124, E8-E14.	2.0	6
93	Sperm IZUMO1-Dependent Gamete Fusion Influences Male Fertility in Mice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4809.	4.1	6
94	Integral role of receptor for advanced glycation end products (RAGE) in nondiabetic atherosclerosis. <i>Fukushima Journal of Medical Sciences</i> , 2019, 65, 109-121.	0.4	6
95	IZUMO family member 3, IZUMO3, is involved in male fertility through the acrosome formation. <i>Molecular Reproduction and Development</i> , 2021, 88, 479-481.	2.0	6
96	COOH-terminal isoleucine of lysosome-associated membrane protein-1 is optimal for its efficient targeting to dense secondary lysosomes. <i>Journal of Biochemistry</i> , 2010, 148, 669-679.	1.7	5
97	Alternative splicing of the <i>Izumo1</i> gene ensures triggering gamete fusion in mice. <i>Scientific Reports</i> , 2019, 9, 3151.	3.3	5
98	Characterization of Russell Bodies Accumulating Mutant Antithrombin Derived from the Endoplasmic Reticulum. <i>Biological and Pharmaceutical Bulletin</i> , 2015, 38, 852-861.	1.4	4
99	In situ visualization of a glycoform of transferrin: localization of $\Delta$ 2,6-sialylated transferrin in the liver. <i>Journal of Biochemistry</i> , 2015, 157, 211-216.	1.7	4
100	Visualization of mouse induced pluripotent stem cells for evaluation of tracheal regeneration. <i>Acta Oto-Laryngologica</i> , 2015, 135, 395-401.	0.9	3
101	Regeneration of tracheal epithelium using mouse induced pluripotent stem cells. <i>Acta Oto-Laryngologica</i> , 2016, 136, 373-378.	0.9	3
102	Deletion of the initial methionine codon of the <i>Tmem95</i> gene causes subfertility, but not complete infertility, in male mice. <i>Biology of Reproduction</i> , 2022, 106, 378-381.	2.7	3
103	M1 macrophage infiltrations and histological changes in the liver after portal vein embolization using fibrinogen and OK432 in the rat. <i>Cellular Immunology</i> , 2016, 303, 66-71.	3.0	2
104	FUKUSHIMA SYMPOSIUM: A BRIEF NOTE. <i>Fukushima Journal of Medical Sciences</i> , 2012, 57, 69-69.	0.4	2
105	ON A "FUKUSHIMA RADIATION SYMPOSIUM 2013" SERIES. <i>Fukushima Journal of Medical Sciences</i> , 2013, 59, 108-109.	0.4	2
106	Reconstitution of apo-DT-diaphorase with flavin-adenine dinucleotide.. <i>Chemical and Pharmaceutical Bulletin</i> , 1986, 34, 4840-4843.	1.3	1
107	Constitutive expression of a COOH-terminal leucine mutant of lysosome-associated membrane protein-1 causes its exclusive localization in low density intracellular vesicles. <i>Journal of Biochemistry</i> , 2014, 156, 39-49.	1.7	1
108	SEL1L degradation intermediates stimulate cytosolic aggregation of polyglutamine-expanded protein. <i>FEBS Journal</i> , 2021, 288, 4637-4654.	4.7	1

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109	A Melanosome-associated Monoclonal Antibody J1 Recognizes Luminal Membrane of Prelysosomes Common to Biogenesis of Melanosomes and Lysosomes.. Cell Structure and Function, 2001, 26, 169-177.	1.1	1
110	Enhancement of Reduction Activity of 4NQO in Animals pretreated with 3-Methylcholanthrene-type PCB and PCDF (Regular Presentations) (Proceedings of the 8th Symposium on Environmental) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 P37-P37.	0.1	0
111	Front Cover Image, Volume 88, Issue 7, July 2021. Molecular Reproduction and Development, 2021, 88, i.	2.0	0