Maria S. Balda

List of Publications by Year
in descending order

89 papers	11,302 citations	38742 50 h-index	49909 87 g-index
116 all docs	116 docs citations	116 times ranked	10134 citing authors

#	Article	IF	Citations
1	Therapeutic Validation of GEF-H1 Using a De Novo Designed Inhibitor in Models of Retinal Disease. Cells, 2022, 11, 1733.	4.1	2
2	Proper Eâ€cadherin membrane location in colon requires Dab2 and it modifies by inflammation and cancer. Journal of Cellular Physiology, 2021, 236, 1083-1093.	4.1	2
3	ARHGEF18/p114RhoGEF Coordinates PKA/CREB Signaling and Actomyosin Remodeling to Promote Trophoblast Cell-Cell Fusion During Placenta Morphogenesis. Frontiers in Cell and Developmental Biology, 2021, 9, 658006.	3.7	10
4	Spatio-temporal expression pattern and role of the tight junction protein MarvelD3 in pancreas development and function. Scientific Reports, 2021, 11, 14519.	3.3	9
5	Interplay between Extracellular Matrix Stiffness and JAM-A Regulates Mechanical Load on ZO-1 and Tight Junction Assembly. Cell Reports, 2020, 32, 107924.	6.4	53
6	Small and large intestine express a truncated Dab1 isoform that assembles in cell-cell junctions and co-localizes with proteins involved in endocytosis. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1231-1241.	2.6	2
7	Control of neural crest induction by MarvelD3-mediated attenuation of JNK signalling. Scientific Reports, 2018, 8, 1204.	3.3	10
8	Biallelic Mutation of ARHGEF18, Involved in the Determination of Epithelial Apicobasal Polarity, Causes Adult-Onset Retinal Degeneration. American Journal of Human Genetics, 2017, 100, 334-342.	6.2	26
9	An apical MRCK-driven morphogenetic pathway controls epithelial polarity. Nature Cell Biology, 2017, 19, 1049-1060.	10.3	62
10	MarvelD3 regulates the c-Jun N-terminal kinase pathway during eye development in Xenopus. Biology Open, 2016, 5, 1631-1641.	1.2	7
11	Tight junctions as regulators of tissue remodelling. Current Opinion in Cell Biology, 2016, 42, 94-101.	5.4	98
12	Global cell-by-cell evaluation of endothelial viability after two methods of graft preparation in Descemet membrane endothelial keratoplasty. British Journal of Ophthalmology, 2016, 100, 572-578.	3.9	21
13	Organ culture storage of pre-prepared corneal donor material for Descemet's membrane endothelial keratoplasty. British Journal of Ophthalmology, 2016, 100, 1576-1583.	3.9	14
14	Tight junctions: from simple barriers to multifunctional molecular gates. Nature Reviews Molecular Cell Biology, 2016, 17, 564-580.	37.0	978
15	ZO-1 controls endothelial adherens junctions, cellâ€"cell tension, angiogenesis, and barrier formation. Journal of Cell Biology, 2015, 208, 821-838.	5.2	411
16	Tight junctions in health and disease. Seminars in Cell and Developmental Biology, 2014, 36, 147-148.	5.0	6
17	The tumour suppressor DLC2 ensures mitotic fidelity by coordinating spindle positioning and cellâ€"cell adhesion. Nature Communications, 2014, 5, 5826.	12.8	20
18	Dbl3 drives Cdc42 signaling at the apical margin to regulate junction position and apical differentiation. Journal of Cell Biology, 2014, 204, 111-127.	5.2	53

#	Article	IF	Citations
19	Signalling at tight junctions during epithelial differentiation and microbial pathogenesis. Journal of Cell Science, 2014, 127, 3401-3413.	2.0	91
20	MarvelD3 couples tight junctions to the MEKK1â€"JNK pathway to regulate cell behavior and survival. Journal of Cell Biology, 2014, 204, 821-838.	5.2	67
21	SnapShot: Epithelial Tight Junctions. Cell, 2014, 157, 992-992.e1.	28.9	32
22	Stress- and Rho-activated ZO-1-associated nucleic acid binding protein binding to p21 mRNA mediates stabilization, translation, and cell survival. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10897-10902.	7.1	44
23	Epithelial junction formation requires confinement of Cdc42 activity by a novel SH3BP1 complex. Journal of Cell Biology, 2012, 198, 677-693.	5.2	61
24	Stimulation of Cortical Myosin Phosphorylation by p114RhoGEF Drives Cell Migration and Tumor Cell Invasion. PLoS ONE, 2012, 7, e50188.	2.5	33
25	Spatially restricted activation of RhoA signalling at epithelial junctions by p114RhoGEF drives junction formation and morphogenesis. Nature Cell Biology, 2011, 13, 159-166.	10.3	206
26	Rho Signaling and Tight Junction Functions. Physiology, 2010, 25, 16-26.	3.1	119
27	Dynamics and functions of tight junctions. Trends in Cell Biology, 2010, 20, 142-149.	7.9	346
28	ZONAB Promotes Proliferation and Represses Differentiation of Proximal Tubule Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2010, 21, 478-488.	6.1	91
29	Ouabain modulates epithelial cell tight junction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11387-11392.	7.1	86
30	The RhoA Activator GEF-H1/Lfc Is a Transforming Growth Factor-Î² Target Gene and Effector That Regulates Î±-Smooth Muscle Actin Expression and Cell Migration. Molecular Biology of the Cell, 2010, 21, 860-870.	2.1	83
31	The Tight Junction Associated Signalling Proteins ZO-1 and ZONAB Regulate Retinal Pigment Epithelium Homeostasis in Mice. PLoS ONE, 2010, 5, e15730.	2.5	104
32	Junctional Music that the Nucleus Hears: Cell-Cell Contact Signaling and the Modulation of Gene Activity. Cold Spring Harbor Perspectives in Biology, 2009, 1, a002923-a002923.	5.5	75
33	Myosin IXa Regulates Epithelial Differentiation and Its Deficiency Results in Hydrocephalus. Molecular Biology of the Cell, 2009, 20, 5074-5085.	2.1	66
34	Regulation of Renal Epithelial Tight Junctions by the von Hippel-Lindau Tumor Suppressor Gene Involves Occludin and Claudin 1 and Is Independent of E-Cadherin. Molecular Biology of the Cell, 2009, 20, 1089-1101.	2.1	70
35	Cellular localization of Y-box binding protein 1 in brain tissue of rats, macaques, and humans. BMC Neuroscience, 2009, 10, 28.	1.9	22
36	Identification of MarvelD3 as a tight junction-associated transmembrane protein of the occludin family. BMC Cell Biology, 2009, 10, 95.	3.0	144

#	Article	IF	Citations
37	The Yâ€box factor ZONAB/DbpA associates with GEFâ€H1/Lfc and mediates Rhoâ€stimulated transcription. EMBO Reports, 2009, 10, 1125-1131.	4.5	51
38	Tight junctions and the regulation of gene expression. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 761-767.	2.6	261
39	Tight junctions at a glance. Journal of Cell Science, 2008, 121, 3677-3682.	2.0	184
40	Epithelial tight junctions, gene expression and nucleo-junctional interplay. Journal of Cell Science, 2007, 120, 1505-1511.	2.0	145
41	Phosphatidylethanol Accumulation Promotes Intestinal Hyperplasia by Inducing ZONAB-Mediated Cell Density Increase in Response to Chronic Ethanol Exposure. Molecular Cancer Research, 2007, 5, 1147-1157.	3.4	39
42	Regulation of tight junction assembly and epithelial morphogenesis by the heat shock protein Apg-2. BMC Cell Biology, 2007, 8, 49.	3.0	24
43	Tight Junctions: Molecular Architecture and Function. International Review of Cytology, 2006, 248, 261-298.	6.2	267
44	Functional interaction between the ZO-1-interacting transcription factor ZONAB/DbpA and the RNA processing factor symplekin. Journal of Cell Science, 2006, 119, 5098-5105.	2.0	68
45	Regulation of PCNA and Cyclin D1 Expression and Epithelial Morphogenesis by the ZO-1-Regulated Transcription Factor ZONAB/DbpA. Molecular and Cellular Biology, 2006, 26, 2387-2398.	2.3	195
46	The Heat-Shock Protein Apg-2 Binds to the Tight Junction Protein ZO-1 and Regulates Transcriptional Activity of ZONAB. Molecular Biology of the Cell, 2006, 17, 1322-1330.	2.1	52
47	Tight Junctions and the Regulation of Epithelial Cell Proliferation and Gene Expression. , 2006, , 101-115.		2
48	RalA interacts with ZONAB in a cell density-dependent manner and regulates its transcriptional activity. EMBO Journal, 2005, 24, 54-62.	7.8	100
49	Mammalian tight junctions in the regulation of epithelial differentiation and proliferation. Current Opinion in Cell Biology, 2005, 17, 453-458.	5.4	274
50	The Polarized Expression of Na+,K+-ATPase in Epithelia Depends on the Association between Î²-Subunits Located in Neighboring Cells. Molecular Biology of the Cell, 2005, 16, 1071-1081.	2.1	104
51	Binding of GEF-H1 to the Tight Junction-Associated Adaptor Cingulin Results in Inhibition of Rho Signaling and G1/S Phase Transition. Developmental Cell, 2005, 8, 777-786.	7.0	182
52	Nuclear translocation of the Hsp70/Hsp90 organizing protein mSTI1 is regulated by cell cycle kinases. Journal of Cell Science, 2004, 117, 701-710.	2.0	100
53	Regulation of cellâ€"cell adhesion. Seminars in Cell and Developmental Biology, 2004, 15, 631-632.	5.0	3
54	Epithelial cell adhesion and the regulation of gene expression. Trends in Cell Biology, 2003, 13, 310-318.	7.9	133

#	Article	IF	Citations
55	Signalling to and from tight junctions. Nature Reviews Molecular Cell Biology, 2003, 4, 225-237.	37.0	780
56	Functional analysis of tight junctions. Methods, 2003, 30, 228-234.	3.8	214
57	Identification of a tight junctionâ€“associated guanine nucleotide exchange factor that activates Rho and regulates paracellular permeability. Journal of Cell Biology, 2003, 160, 729-740.	5.2	191
58	Holey barrier. Journal of Cell Biology, 2003, 161, 459-460.	5.2	90
59	The ZO-1â€“associated Y-box factor ZONAB regulates epithelial cell proliferation and cell density. Journal of Cell Biology, 2003, 160, 423-432.	5.2	342
60	Multiple domains of occludin are involved in the regulation of paracellular permeability. Journal of Cellular Biochemistry, 2000, 78, 85-96.	2.6	168
61	The tight junction protein ZO-1 and an interacting transcription factor regulate ErbB-2 expression. EMBO Journal, 2000, 19, 2024-2033.	7.8	379
62	Occludin Modulates Transepithelial Migration of Neutrophils. Journal of Biological Chemistry, 2000, 275, 5773-5778.	3.4	111
63	Transmembrane proteins of tight junctions. Seminars in Cell and Developmental Biology, 2000, 11, 281-289.	5.0	124
64	Multiple domains of occludin are involved in the regulation of paracellular permeability. , 2000, 78, 85.		2
65	Multiple domains of occludin are involved in the regulation of paracellular permeability. Journal of Cellular Biochemistry, 2000, 78, 85-96.	2.6	2
66	Multiple domains of occludin are involved in the regulation of paracellular permeability. Journal of Cellular Biochemistry, 2000, 78, 85-96.	2.6	84
67	Carbohydrate-mediated Golgi to cell surface transport and apical targeting of membrane proteins. EMBO Journal, 1998, 17, 1919-1929.	7.8	196
68	The Cytoplasmic Domains of a Î²1 Integrin Mediate Polarization in Madin-Darby Canine Kidney Cells by Selective Basolateral Stabilization. Journal of Biological Chemistry, 1998, 273, 29381-29388.	3.4	34
69	Transepithelial Migration of Neutrophils. Invasion & Metastasis, 1998, 18, 70-80.	0.5	24
70	Occldin and the Functions of Tight Junctions. International Review of Cytology, 1998, 186, 117-146.	6.2	113
71	Tight junctions. Journal of Cell Science, 1998, 111 (Pt 5), 541-7.	2.0	69
72	The SH3 domain of the tight junction protein ZO-1 binds to a serine protein kinase that phosphorylates a region C-terminal to this domain. FEBS Letters, 1996, 399, 326-332.	2.8	96

#	Article	IF	Citations
73	Functional dissociation of paracellular permeability and transepithelial electrical resistance and disruption of the apical-basolateral intramembrane diffusion barrier by expression of a mutant tight junction membrane protein.. Journal of Cell Biology, 1996, 134, 1031-1049.	5.2	777
74	The structure and regulation of tight junctions. Current Opinion in Cell Biology, 1993, 5, 772-778.	5.4	190
75	Assembly of the tight junction: the role of diacylglycerol.. Journal of Cell Biology, 1993, 123, 293-302.	5.2	377
76	The tight junction protein ZO-1 is homologous to the Drosophila discs-large tumor suppressor protein of septate junctions.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 7834-7838.	7.1	439
77	Two classes of tight junctions are revealed by ZO-1 isoforms. American Journal of Physiology - Cell Physiology, 1993, 264, C918-C924.	4.6	173
78	Localization and differential expression of two isoforms of the tight junction protein ZO-1. American Journal of Physiology - Cell Physiology, 1992, 262, C1119-C1124.	4.6	154
79	Structure, regulation, and pathophysiology of tight junctions in the gastrointestinal tract. Yale Journal of Biology and Medicine, 1992, 65, 725-35; discussion 737-40.	0.2	31
80	Assembly and sealing of tight junctions: Possible participation of G-proteins, phospholipase C, protein kinase C and calmodulin. Journal of Membrane Biology, 1991, 122, 193-202.	2.1	257
81	Angiotensin Converting Enzyme Activity in the Amygdaloid Complex in A Neurogenic Hypertensive Model. Clinical and Experimental Hypertension, 1988, 10, 605-615.	0.3	2
82	Serotonin mediates cardiovascular responses to acetylcholine, bradykinin, angiotensin II and norepinephrine in the lateral septal area of the rat brain. Neuropharmacology, 1987, 26, 561-566.	4.1	30
83	Muscarinic ml receptors in the lateral septal area mediate cardiovascular responses to cholinergic agonists and bradykinin: supersensitivity induced by chronic treatment with atropine. Neuropharmacology, 1987, 26, 181-185.	4.1	19
84	Saralasin Blocks the Effect of Angiotensin II and Extracellular Fluid Saline Expansion on the Na-K-ATPase Inhibitor Release in Rats. Clinical and Experimental Hypertension, 1986, 8, 997-1008.	0.3	7
85	Interaction between acetylcholine and bradykinin in the lateral septal area of the rat brain: Involvement of muscarinic receptors in cardiovascular responses. Neuropharmacology, 1986, 25, 1387-1393.	4.1	16
86	Increase in muscarinic receptors in rat intestine by Thyrotropin Releasing Hormone (TRH). Life Sciences, 1984, 34, 1643-1649.	4.3	8
87	Neurogenic hypertension after depletion of norepinephrine in anterior hypothalamus induced by 6-hydroxydopamine administration into the ventral pons: Role of serotonin. Neuropharmacology, 1983, 22, 29-34.	4.1	44
88	Thyrotropin-releasing hormone increases the number of muscarinic receptors in the lateral septal area of the rat brain. Brain Research, 1983, 273, 387-391.	2.2	32
89	Circadian rhythm and neural regulation of rat pineal angiotensin converting enzyme. Brain Research, 1982, 236, 216-220.	2.2	18