

Maria S. Balda

List of Publications by Year in descending order

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89
papers

11,302
citations

38742

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49909

87
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116
all docs

116
docs citations

116
times ranked

10134
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tight junctions: from simple barriers to multifunctional molecular gates. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 564-580. | 37.0 | 978 |
| 2 | Signalling to and from tight junctions. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 225-237. | 37.0 | 780 |
| 3 | 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.. <i>Journal of Cell Biology</i> , 1996, 134, 1031-1049. | 5.2 | 777 |
| 4 | The tight junction protein ZO-1 is homologous to the <i>Drosophila</i> discs-large tumor suppressor protein of septate junctions.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 7834-7838. | 7.1 | 439 |
| 5 | ZO-1 controls endothelial adherens junctions, cell cell tension, angiogenesis, and barrier formation. <i>Journal of Cell Biology</i> , 2015, 208, 821-838. | 5.2 | 411 |
| 6 | The tight junction protein ZO-1 and an interacting transcription factor regulate ErbB-2 expression. <i>EMBO Journal</i> , 2000, 19, 2024-2033. | 7.8 | 379 |
| 7 | Assembly of the tight junction: the role of diacylglycerol.. <i>Journal of Cell Biology</i> , 1993, 123, 293-302. | 5.2 | 377 |
| 8 | Dynamics and functions of tight junctions. <i>Trends in Cell Biology</i> , 2010, 20, 142-149. | 7.9 | 346 |
| 9 | The ZO-1 associated Y-box factor ZONAB regulates epithelial cell proliferation and cell density. <i>Journal of Cell Biology</i> , 2003, 160, 423-432. | 5.2 | 342 |
| 10 | Mammalian tight junctions in the regulation of epithelial differentiation and proliferation. <i>Current Opinion in Cell Biology</i> , 2005, 17, 453-458. | 5.4 | 274 |
| 11 | Tight Junctions: Molecular Architecture and Function. <i>International Review of Cytology</i> , 2006, 248, 261-298. | 6.2 | 267 |
| 12 | Tight junctions and the regulation of gene expression. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 761-767. | 2.6 | 261 |
| 13 | Assembly and sealing of tight junctions: Possible participation of G-proteins, phospholipase C, protein kinase C and calmodulin. <i>Journal of Membrane Biology</i> , 1991, 122, 193-202. | 2.1 | 257 |
| 14 | Functional analysis of tight junctions. <i>Methods</i> , 2003, 30, 228-234. | 3.8 | 214 |
| 15 | Spatially restricted activation of RhoA signalling at epithelial junctions by p114RhoGEF drives junction formation and morphogenesis. <i>Nature Cell Biology</i> , 2011, 13, 159-166. | 10.3 | 206 |
| 16 | Carbohydrate-mediated Golgi to cell surface transport and apical targeting of membrane proteins. <i>EMBO Journal</i> , 1998, 17, 1919-1929. | 7.8 | 196 |
| 17 | Regulation of PCNA and Cyclin D1 Expression and Epithelial Morphogenesis by the ZO-1-Regulated Transcription Factor ZONAB/DbpA. <i>Molecular and Cellular Biology</i> , 2006, 26, 2387-2398. | 2.3 | 195 |
| 18 | Identification of a tight junction associated guanine nucleotide exchange factor that activates Rho and regulates paracellular permeability. <i>Journal of Cell Biology</i> , 2003, 160, 729-740. | 5.2 | 191 |

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|----|---|-----|-----------|
| 19 | The structure and regulation of tight junctions. <i>Current Opinion in Cell Biology</i> , 1993, 5, 772-778. | 5.4 | 190 |
| 20 | Tight junctions at a glance. <i>Journal of Cell Science</i> , 2008, 121, 3677-3682. | 2.0 | 184 |
| 21 | Binding of GEF-H1 to the Tight Junction-Associated Adaptor Cingulin Results in Inhibition of Rho Signaling and G1/S Phase Transition. <i>Developmental Cell</i> , 2005, 8, 777-786. | 7.0 | 182 |
| 22 | Two classes of tight junctions are revealed by ZO-1 isoforms. <i>American Journal of Physiology - Cell Physiology</i> , 1993, 264, C918-C924. | 4.6 | 173 |
| 23 | Multiple domains of occludin are involved in the regulation of paracellular permeability. <i>Journal of Cellular Biochemistry</i> , 2000, 78, 85-96. | 2.6 | 168 |
| 24 | Localization and differential expression of two isoforms of the tight junction protein ZO-1. <i>American Journal of Physiology - Cell Physiology</i> , 1992, 262, C1119-C1124. | 4.6 | 154 |
| 25 | Epithelial tight junctions, gene expression and nucleo-junctional interplay. <i>Journal of Cell Science</i> , 2007, 120, 1505-1511. | 2.0 | 145 |
| 26 | Identification of MarvelD3 as a tight junction-associated transmembrane protein of the occludin family. <i>BMC Cell Biology</i> , 2009, 10, 95. | 3.0 | 144 |
| 27 | Epithelial cell adhesion and the regulation of gene expression. <i>Trends in Cell Biology</i> , 2003, 13, 310-318. | 7.9 | 133 |
| 28 | Transmembrane proteins of tight junctions. <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 281-289. | 5.0 | 124 |
| 29 | Rho Signaling and Tight Junction Functions. <i>Physiology</i> , 2010, 25, 16-26. | 3.1 | 119 |
| 30 | Occludin and the Functions of Tight Junctions. <i>International Review of Cytology</i> , 1998, 186, 117-146. | 6.2 | 113 |
| 31 | Occludin Modulates Transepithelial Migration of Neutrophils. <i>Journal of Biological Chemistry</i> , 2000, 275, 5773-5778. | 3.4 | 111 |
| 32 | The Polarized Expression of Na ⁺ ,K ⁺ -ATPase in Epithelia Depends on the Association between $\hat{1}^2$ -Subunits Located in Neighboring Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 1071-1081. | 2.1 | 104 |
| 33 | The Tight Junction Associated Signalling Proteins ZO-1 and ZONAB Regulate Retinal Pigment Epithelium Homeostasis in Mice. <i>PLoS ONE</i> , 2010, 5, e15730. | 2.5 | 104 |
| 34 | Nuclear translocation of the Hsp70/Hsp90 organizing protein mSTI1 is regulated by cell cycle kinases. <i>Journal of Cell Science</i> , 2004, 117, 701-710. | 2.0 | 100 |
| 35 | Ra1A interacts with ZONAB in a cell density-dependent manner and regulates its transcriptional activity. <i>EMBO Journal</i> , 2005, 24, 54-62. | 7.8 | 100 |
| 36 | Tight junctions as regulators of tissue remodelling. <i>Current Opinion in Cell Biology</i> , 2016, 42, 94-101. | 5.4 | 98 |

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|----|--|------|-----------|
| 37 | 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. <i>FEBS Letters</i> , 1996, 399, 326-332. | 2.8 | 96 |
| 38 | ZONAB Promotes Proliferation and Represses Differentiation of Proximal Tubule Epithelial Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 478-488. | 6.1 | 91 |
| 39 | Signalling at tight junctions during epithelial differentiation and microbial pathogenesis. <i>Journal of Cell Science</i> , 2014, 127, 3401-3413. | 2.0 | 91 |
| 40 | Holey barrier. <i>Journal of Cell Biology</i> , 2003, 161, 459-460. | 5.2 | 90 |
| 41 | Ouabain modulates epithelial cell tight junction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11387-11392. | 7.1 | 86 |
| 42 | Multiple domains of occludin are involved in the regulation of paracellular permeability. <i>Journal of Cellular Biochemistry</i> , 2000, 78, 85-96. | 2.6 | 84 |
| 43 | The RhoA Activator GEF-H1/Lfc Is a Transforming Growth Factor- β Target Gene and Effector That Regulates β -Smooth Muscle Actin Expression and Cell Migration. <i>Molecular Biology of the Cell</i> , 2010, 21, 860-870. | 2.1 | 83 |
| 44 | Junctional Music that the Nucleus Hears: Cell-Cell Contact Signaling and the Modulation of Gene Activity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a002923-a002923. | 5.5 | 75 |
| 45 | 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. <i>Molecular Biology of the Cell</i> , 2009, 20, 1089-1101. | 2.1 | 70 |
| 46 | Tight junctions. <i>Journal of Cell Science</i> , 1998, 111 (Pt 5), 541-7. | 2.0 | 69 |
| 47 | Functional interaction between the ZO-1-interacting transcription factor ZONAB/DbpA and the RNA processing factor symplekin. <i>Journal of Cell Science</i> , 2006, 119, 5098-5105. | 2.0 | 68 |
| 48 | MarvelD3 couples tight junctions to the MEK1/JNK pathway to regulate cell behavior and survival. <i>Journal of Cell Biology</i> , 2014, 204, 821-838. | 5.2 | 67 |
| 49 | Myosin IXa Regulates Epithelial Differentiation and Its Deficiency Results in Hydrocephalus. <i>Molecular Biology of the Cell</i> , 2009, 20, 5074-5085. | 2.1 | 66 |
| 50 | An apical MRCK-driven morphogenetic pathway controls epithelial polarity. <i>Nature Cell Biology</i> , 2017, 19, 1049-1060. | 10.3 | 62 |
| 51 | Epithelial junction formation requires confinement of Cdc42 activity by a novel SH3BP1 complex. <i>Journal of Cell Biology</i> , 2012, 198, 677-693. | 5.2 | 61 |
| 52 | Dbp3 drives Cdc42 signaling at the apical margin to regulate junction position and apical differentiation. <i>Journal of Cell Biology</i> , 2014, 204, 111-127. | 5.2 | 53 |
| 53 | Interplay between Extracellular Matrix Stiffness and JAM-A Regulates Mechanical Load on ZO-1 and Tight Junction Assembly. <i>Cell Reports</i> , 2020, 32, 107924. | 6.4 | 53 |
| 54 | The Heat-Shock Protein Apg-2 Binds to the Tight Junction Protein ZO-1 and Regulates Transcriptional Activity of ZONAB. <i>Molecular Biology of the Cell</i> , 2006, 17, 1322-1330. | 2.1 | 52 |

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|----|---|------|-----------|
| 55 | The Y-box factor ZONAB/DbpA associates with GEFH1/Lfc and mediates Rho-stimulated transcription. <i>EMBO Reports</i> , 2009, 10, 1125-1131. | 4.5 | 51 |
| 56 | Neurogenic hypertension after depletion of norepinephrine in anterior hypothalamus induced by 6-hydroxydopamine administration into the ventral pons: Role of serotonin. <i>Neuropharmacology</i> , 1983, 22, 29-34. | 4.1 | 44 |
| 57 | Stress- and Rho-activated ZO-1-associated nucleic acid binding protein binding to p21 mRNA mediates stabilization, translation, and cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10897-10902. | 7.1 | 44 |
| 58 | Phosphatidylethanol Accumulation Promotes Intestinal Hyperplasia by Inducing ZONAB-Mediated Cell Density Increase in Response to Chronic Ethanol Exposure. <i>Molecular Cancer Research</i> , 2007, 5, 1147-1157. | 3.4 | 39 |
| 59 | The Cytoplasmic Domains of a β 1 Integrin Mediate Polarization in Madin-Darby Canine Kidney Cells by Selective Basolateral Stabilization. <i>Journal of Biological Chemistry</i> , 1998, 273, 29381-29388. | 3.4 | 34 |
| 60 | Stimulation of Cortical Myosin Phosphorylation by p114RhoGEF Drives Cell Migration and Tumor Cell Invasion. <i>PLoS ONE</i> , 2012, 7, e50188. | 2.5 | 33 |
| 61 | Thyrotropin-releasing hormone increases the number of muscarinic receptors in the lateral septal area of the rat brain. <i>Brain Research</i> , 1983, 273, 387-391. | 2.2 | 32 |
| 62 | SnapShot: Epithelial Tight Junctions. <i>Cell</i> , 2014, 157, 992-992.e1. | 28.9 | 32 |
| 63 | Structure, regulation, and pathophysiology of tight junctions in the gastrointestinal tract. <i>Yale Journal of Biology and Medicine</i> , 1992, 65, 725-35; discussion 737-40. | 0.2 | 31 |
| 64 | Serotonin mediates cardiovascular responses to acetylcholine, bradykinin, angiotensin II and norepinephrine in the lateral septal area of the rat brain. <i>Neuropharmacology</i> , 1987, 26, 561-566. | 4.1 | 30 |
| 65 | Biallelic Mutation of ARHGEF18, Involved in the Determination of Epithelial Apicobasal Polarity, Causes Adult-Onset Retinal Degeneration. <i>American Journal of Human Genetics</i> , 2017, 100, 334-342. | 6.2 | 26 |
| 66 | Trans epithelial Migration of Neutrophils. <i>Invasion & Metastasis</i> , 1998, 18, 70-80. | 0.5 | 24 |
| 67 | Regulation of tight junction assembly and epithelial morphogenesis by the heat shock protein Apg-2. <i>BMC Cell Biology</i> , 2007, 8, 49. | 3.0 | 24 |
| 68 | Cellular localization of Y-box binding protein 1 in brain tissue of rats, macaques, and humans. <i>BMC Neuroscience</i> , 2009, 10, 28. | 1.9 | 22 |
| 69 | Global cell-by-cell evaluation of endothelial viability after two methods of graft preparation in Descemet membrane endothelial keratoplasty. <i>British Journal of Ophthalmology</i> , 2016, 100, 572-578. | 3.9 | 21 |
| 70 | The tumour suppressor DLC2 ensures mitotic fidelity by coordinating spindle positioning and cell-cell adhesion. <i>Nature Communications</i> , 2014, 5, 5826. | 12.8 | 20 |
| 71 | Muscarinic ml receptors in the lateral septal area mediate cardiovascular responses to cholinergic agonists and bradykinin: supersensitivity induced by chronic treatment with atropine. <i>Neuropharmacology</i> , 1987, 26, 181-185. | 4.1 | 19 |
| 72 | Circadian rhythm and neural regulation of rat pineal angiotensin converting enzyme. <i>Brain Research</i> , 1982, 236, 216-220. | 2.2 | 18 |

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|----|---|-----|-----------|
| 73 | Interaction between acetylcholine and bradykinin in the lateral septal area of the rat brain: Involvement of muscarinic receptors in cardiovascular responses. <i>Neuropharmacology</i> , 1986, 25, 1387-1393. | 4.1 | 16 |
| 74 | Organ culture storage of pre-prepared corneal donor material for Descemet's membrane endothelial keratoplasty. <i>British Journal of Ophthalmology</i> , 2016, 100, 1576-1583. | 3.9 | 14 |
| 75 | Control of neural crest induction by MarvelD3-mediated attenuation of JNK signalling. <i>Scientific Reports</i> , 2018, 8, 1204. | 3.3 | 10 |
| 76 | ARHGEF18/p114RhoGEF Coordinates PKA/CREB Signaling and Actomyosin Remodeling to Promote Trophoblast Cell-Cell Fusion During Placenta Morphogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 658006. | 3.7 | 10 |
| 77 | Spatio-temporal expression pattern and role of the tight junction protein MarvelD3 in pancreas development and function. <i>Scientific Reports</i> , 2021, 11, 14519. | 3.3 | 9 |
| 78 | Increase in muscarinic receptors in rat intestine by Thyrotropin Releasing Hormone (TRH). <i>Life Sciences</i> , 1984, 34, 1643-1649. | 4.3 | 8 |
| 79 | Saralasin Blocks the Effect of Angiotensin II and Extracellular Fluid Saline Expansion on the Na-K-ATPase Inhibitor Release in Rats. <i>Clinical and Experimental Hypertension</i> , 1986, 8, 997-1008. | 0.3 | 7 |
| 80 | MarvelD3 regulates the c-Jun N-terminal kinase pathway during eye development in <i>Xenopus</i> . <i>Biology Open</i> , 2016, 5, 1631-1641. | 1.2 | 7 |
| 81 | Tight junctions in health and disease. <i>Seminars in Cell and Developmental Biology</i> , 2014, 36, 147-148. | 5.0 | 6 |
| 82 | Regulation of cell-cell adhesion. <i>Seminars in Cell and Developmental Biology</i> , 2004, 15, 631-632. | 5.0 | 3 |
| 83 | Angiotensin Converting Enzyme Activity in the Amygdaloid Complex in A Neurogenic Hypertensive Model. <i>Clinical and Experimental Hypertension</i> , 1988, 10, 605-615. | 0.3 | 2 |
| 84 | Small and large intestine express a truncated Dab1 isoform that assembles in cell-cell junctions and co-localizes with proteins involved in endocytosis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1231-1241. | 2.6 | 2 |
| 85 | Proper E-cadherin membrane location in colon requires Dab2 and it modifies by inflammation and cancer. <i>Journal of Cellular Physiology</i> , 2021, 236, 1083-1093. | 4.1 | 2 |
| 86 | Multiple domains of occludin are involved in the regulation of paracellular permeability. , 2000, 78, 85. | | 2 |
| 87 | Multiple domains of occludin are involved in the regulation of paracellular permeability. <i>Journal of Cellular Biochemistry</i> , 2000, 78, 85-96. | 2.6 | 2 |
| 88 | Tight Junctions and the Regulation of Epithelial Cell Proliferation and Gene Expression. , 2006, , 101-115. | | 2 |
| 89 | Therapeutic Validation of GEF-H1 Using a De Novo Designed Inhibitor in Models of Retinal Disease. <i>Cells</i> , 2022, 11, 1733. | 4.1 | 2 |