Mikio Furuse

List of Publications by Year
in descending order

136 papers	31,064 citations	14655 66 h-index	12946 131 g-index
142 all docs	142 docs citations	142 times ranked	16464 citing authors

#	Article	IF	Citations
1	Occludin: a novel integral membrane protein localizing at tight junctions.. Journal of Cell Biology, 1993, 123, 1777-1788.	5.2	2,281
2	Multifunctional strands in tight junctions. Nature Reviews Molecular Cell Biology, 2001, 2, 285-293.	37.0	2,198
3	Claudin-1 and -2: Novel Integral Membrane Proteins Localizing at Tight Junctions with No Sequence Similarity to Occludin. Journal of Cell Biology, 1998, 141, 1539-1550.	5.2	1,875
4	Size-selective loosening of the blood-brain barrier in claudin-5â€"deficient mice. Journal of Cell Biology, 2003, 161, 653-660.	5.2	1,557
5	Claudin-based tight junctions are crucial for the mammalian epidermal barrier. Journal of Cell Biology, 2002, 156, 1099-1111.	5.2	1,336
6	Claudin multigene family encoding four-transmembrane domain protein components of tight junction strands. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 511-516.	7.1	1,050
7	Complex Phenotype of Mice Lacking Occludin, a Component of Tight Junction Strands. Molecular Biology of the Cell, 2000, 11, 4131-4142.	2.1	1,005
8	Direct Binding of Three Tight Junction-Associated Maguks, Zo-1, Zo-2, and Zo-3, with the Cooh Termini of Claudins. Journal of Cell Biology, 1999, 147, 1351-1363.	5.2	993
9	Direct association of occludin with ZO-1 and its possible involvement in the localization of occludin at tight junctions.. Journal of Cell Biology, 1994, 127, 1617-1626.	5.2	876
10	A Single Gene Product, Claudin-1 or -2, Reconstitutes Tight Junction Strands and Recruits Occludin in Fibroblasts. Journal of Cell Biology, 1998, 143, 391-401.	5.2	842
11	Endothelial Claudin. Journal of Cell Biology, 1999, 147, 185-194.	5.2	774
12	ZO-1 and ZO-2 Independently Determine Where Claudins Are Polymerized in Tight-Junction Strand Formation. Cell, 2006, 126, 741-754.	28.9	685
13	Conversion of <i>Zonulae Occludentes</i> from Tight to Leaky Strand Type by Introducing Claudin-2 into Madin-Darby Canine Kidney I Cells. Journal of Cell Biology, 2001, 153, 263-272.	5.2	667
14	Tricellulin constitutes a novel barrier at tricellular contacts of epithelial cells. Journal of Cell Biology, 2005, 171, 939-945.	5.2	664
15	Manner of Interaction of Heterogeneous Claudin Species within and between Tight Junction Strands. Journal of Cell Biology, 1999, 147, 891-903.	5.2	662
16	<i>Clostridium perfringens</i> Enterotoxin Fragment Removes Specific Claudins from Tight Junction Strands. Journal of Cell Biology, 1999, 147, 195-204.	5.2	592
17	Regulation of tight junctions during the epithelium-mesenchyme transition:direct repression of the gene expression of claudins/occludin by Snail. Journal of Cell Science, 2003, 116, 1959-1967.	2.0	584
18	Occludin and claudins in tight-junction strands: leading or supporting players?. Trends in Cell Biology, 1999, 9, 268-273.	7.9	544

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19	Possible Involvement of Phosphorylation of Occludin in Tight Junction Formation. Journal of Cell Biology, 1997, 137, 1393-1401.	5.2	526
20	Occludin-deficient Embryonic Stem Cells Can Differentiate into Polarized Epithelial Cells Bearing Tight Junctions. Journal of Cell Biology, 1998, 141, 397-408.	5.2	490
21	Claudins in occluding junctions of humans and flies. Trends in Cell Biology, 2006, 16, 181-188.	7.9	486
22	Pores in the Wall. Journal of Cell Biology, 2000, 149, 13-16.	5.2	428
23	Claudin-11/OSP-based Tight Junctions of Myelin Sheaths in Brain and Sertoli Cells in Testis. Journal of Cell Biology, 1999, 145, 579-588.	5.2	413
24	Differential Expression Patterns of Claudins, Tight Junction Membrane Proteins, in Mouse Nephron Segments. Journal of the American Society of Nephrology: JASN, 2002, 13, 875-886.	6.1	407
25	Junctional adhesion molecule (JAM) binds to PAR-3. Journal of Cell Biology, 2001, 154, 491-498.	5.2	346
26	Claudin-based barrier in simple and stratified cellular sheets. Current Opinion in Cell Biology, 2002, 14, 531-536.	5.4	328
27	Molecular Basis of the Core Structure of Tight Junctions. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002907-a002907.	5.5	321
28	Multi-PDZ Domain Protein 1 (MUPP1) Is Concentrated at Tight Junctions through Its Possible Interaction with Claudin-1 and Junctional Adhesion Molecule. Journal of Biological Chemistry, 2002, 277, 455-461.	3.4	316
29	Tight Junction Structure and Function Revisited. Trends in Cell Biology, 2020, 30, 805-817.	7.9	308
30	Interspecies diversity of the occludin sequence: cDNA cloning of human, mouse, dog, and rat-kangaroo homologues.. Journal of Cell Biology, 1996, 133, 43-47.	5.2	307
31	Structural and signalling molecules come together at tight junctions. Current Opinion in Cell Biology, 1999, 11, 628-633.	5.4	301
32	Clostridium perfringensenterotoxin binds to the second extracellular loop of claudin-3, a tight junction integral membrane protein. FEBS Letters, 2000, 476, 258-261.	2.8	257
33	Claudin-2â€“deficient mice are defective in the leaky and cation-selective paracellular permeability properties of renal proximal tubules. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8011-8016.	7.1	257
34	Establishment and Characterization of Cultured Epithelial Cells Lacking Expression of ZO-1. Journal of Biological Chemistry, 2004, 279, 44785-44794.	3.4	229
35	Dynamic behavior of paired claudin strands within apposing plasma membranes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3971-3976.	7.1	209
36	LSR defines cell corners for tricellular tight junction formation in epithelial cells. Journal of Cell Science, 2011, 124, 548-555.	2.0	206

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37	A peculiar internalization of claudins, tight junction-specific adhesion molecules, during the intercellular movement of epithelial cells. Journal of Cell Science, 2004, 117, 1247-1257.	2.0	203
38	The Structure and Function of Claudins, Cell Adhesion Molecules at Tight Junctions. Annals of the New York Academy of Sciences, 2000, 915, 129-135.	3.8	202
39	Megaintestine in Claudin-15â€"Deficient Mice. Gastroenterology, 2008, 134, 523-534.e3.	1.3	182
40	Tight junctions in Schwann cells of peripheral myelinated axons. Journal of Cell Biology, 2005, 169, 527-538.	5.2	176
41	Ca2+-independent cell-adhesion activity of claudins, a family of integral membrane proteins localized at tight junctions. Current Biology, 1999, 9, 1035-S1.	3.9	173
42	Loss of Occludin Affects Tricellular Localization of Tricellulin. Molecular Biology of the Cell, 2008, 19, 4687-4693.	2.1	172
43	Analysis of the angulin family consisting of LSR, ILDR1 and ILDR2: tricellulin recruitment, epithelial barrier function and implication in deafness pathogenesis. Journal of Cell Science, 2013, 126, 966-77.	2.0	170
44	Compartmentalization established by claudin-11-based tight junctions in stria vascularis is required for hearing through generation of endocochlear potential. Journal of Cell Science, 2004, 117, 5087-5096.	2.0	169
45	Expression patterns of claudins, tight junction adhesion molecules, in the inner ear. Hearing Research, 2004, 187, 25-34.	2.0	166
46	Claudins and JAM-A coordinately regulate tight junction formation and epithelial polarity. Journal of Cell Biology, 2019, 218, 3372-3396.	5.2	152
47	Differential behavior of E-cadherin and occludin in their colocalization with ZO-1 during the establishment of epithelial cell polarity. , 1999, 179, 115-125.		151
48	Requirement of ZO-1 for the formation of belt-like adherens junctions during epithelial cell polarization. Journal of Cell Biology, 2007, 176, 779-786.	5.2	151
49	Contribution of Tight Junction Proteins to Ion, Macromolecule, and Water Barrier in Keratinocytes. Journal of Investigative Dermatology, 2013, 133, 1161-1169.	0.7	136
50	Occludin is concentrated at tight junctions of mouse/rat but not human/guinea pig Sertoli cells in testes. American Journal of Physiology - Cell Physiology, 1998, 274, C1708-C1717.	4.6	133
51	Tight junctions containing claudin 4 and 6 are essential for blastocyst formation in preimplantation mouse embryos. Developmental Biology, 2007, 312, 509-522.	2.0	122
52	Subcellular Distribution of Tight Junction-Associated Proteins (Occludin, ZO-1, ZO-2) in Rodent Skin. Journal of Investigative Dermatology, 1998, 110, 862-866.	0.7	116
53	Altered expression of tight junction molecules in alveolar septa in lung injury and fibrosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L193-L205.	2.9	113
54	Tight junction dysfunction in the stratum granulosum leads to aberrant stratum corneum barrier function in claudin-1-deficient mice. Journal of Dermatological Science, 2013, 70, 12-18.	1.9	111

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55	Molecular organization of tricellular tight junctions. Tissue Barriers, 2014, 2, e28960.	3.2	106
56	The Drosophila Claudin Kune-kune Is Required for Septate Junction Organization and Tracheal Tube Size Control. Genetics, 2010, 185, 831-839.	2.9	94
57	The E3 ubiquitin ligase LNX1p80 promotes the removal of claudins from tight junctions in MDCK cells. Journal of Cell Science, 2009, 122, 985-994.	2.0	92
58	Overcoming barriers in the study of tight junction functions: from occludin to claudin. Genes To Cells, 1998, 3, 569-573.	1.2	89
59	Molecular organization and function of invertebrate occluding junctions. Seminars in Cell and Developmental Biology, 2014, 36, 186-193.	5.0	88
60	Molecular characterization of angiomotin/JEAP family proteins: interaction with MUPP1/Patj and their endogenous properties. Genes To Cells, 2007, 12, 473-486.	1.2	83
61	Epidermal cell turnover across tight junctions based on Kelvin's tetrakaidecahedron cell shape. ELife, 2016, 5, .	6.0	81
62	Claudins in Caenorhabditis elegans. Current Biology, 2003, 13, 1042-1046.	3.9	79
63	Epidermal tight junction barrier function is altered by skin inflammation, but not by filaggrin-deficient stratum corneum. Journal of Dermatological Science, 2015, 77, 28-36.	1.9	77
64	Similar and Distinct Properties of MUPP1 and Patj, Two Homologous PDZ Domain-Containing Tight-Junction Proteins. Molecular and Cellular Biology, 2009, 29, 2372-2389.	2.3	76
65	Strong induction of ICAMâ€1 in human T cells transformed by human Tâ€cellâ€leukemia virus type 1 and depression of ICAMâ€1 or LFAâ€1 in adult Tâ€cellâ€leukemiaâ€derived cell lines. International Journal of Cancer, 1992, 52, 418-427.	5.1	73
66	ZO-1 Knockout by TALEN-Mediated Gene Targeting in MDCK Cells: Involvement of ZO-1 in the Regulation of Cytoskeleton and Cell Shape. PLoS ONE, 2014, 9, e104994.	2.5	72
67	JACOP, a Novel Plaque Protein Localizing at the Apical Junctional Complex with Sequence Similarity to Cingulin. Journal of Biological Chemistry, 2004, 279, 46014-46022.	3.4	71
68	Expression and distribution of ZO-3, a tight junction MAGUK protein, in mouse tissues. Genes To Cells, 2003, 8, 837-845.	1.2	69
69	Claudin-3-deficient C57BL/6J mice display intact brain barriers. Scientific Reports, 2019, 9, 203.	3.3	68
70	Characteristics of Claudin Expression in Follicle-Associated Epithelium of Peyer's Patches: Preferential Localization of Claudin-4 at the Apex of the Dome Region. Laboratory Investigation, 2003, 83, 1045-1053.	3.7	67
71	Knockout animals and natural mutations as experimental and diagnostic tool for studying tight junction functions in vivo. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 813-819.	2.6	66
72	A novel protein complex, mesh-ssk, is required for septate junction formation in<i>drosophila</i>midgut. Journal of Cell Science, 2012, 125, 4923-33.	2.0	66

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73	CD44 Regulates Tight-Junction Assembly and Barrier Function. Journal of Investigative Dermatology, 2011, 131, 932-943.	0.7	63
74	Localization of Angulin-1/LSR and Tricellulin at Tricellular Contacts of Brain and Retinal Endothelial Cells <i>in vivo</i>. Cell Structure and Function, 2014, 39, 1-8.	1.1	63
75	Deafness in occludin-deficient mice with dislocation of tricellulin and progressive apoptosis of the hair cells. Biology Open, 2014, 3, 759-766.	1.2	61
76	Tricellulin regulates junctional tension of epithelial cells at tricellular contacts via Cdc42. Journal of Cell Science, 2014, 127, 4201-12.	2.0	60
77	Expression patterns of claudin family of tight junction membrane proteins in developing mouse submandibular gland. Developmental Dynamics, 2004, 231, 425-431.	1.8	59
78	Analysis of the â€˜angulinâ€™ proteins LSR, ILDR1 and ILDR2 â€“ tricellulin recruitment, epithelial barrier function and implication in deafness pathogenesis. Journal of Cell Science, 2013, 126, 3797-3797.	2.0	58
79	Occludin and tricellulin facilitate formation of anastomosing tight-junction strand network to improve barrier function. Molecular Biology of the Cell, 2021, 32, 722-738.	2.1	58
80	Molecular Dissection of Tight Junctions.. Cell Structure and Function, 1996, 21, 381-385.	1.1	55
81	Molecular Architecture of Tight Junctions of Periderm Differs From That of the Maculae Occludentes of Epidermis. Journal of Investigative Dermatology, 2002, 118, 1073-1079.	0.7	54
82	Expression of claudinâ€5 in dermal vascular endothelia. Experimental Dermatology, 2003, 12, 289-295.	2.9	52
83	Tight junctions in epidermis: from barrier to keratinization. European Journal of Dermatology, 2011, 21, 12-17.	0.6	46
84	A tetraspanin regulates septate junction formation in<i>Drosophila</i>midgut. Journal of Cell Science, 2016, 129, 1155-64.	2.0	45
85	A novel smooth septate junction-associated membrane protein, Snakeskin, is required for intestinal barrier function in Drosophila. Journal of Cell Science, 2012, 125, 1980-90.	2.0	43
86	Deficiency of Angulin-2/ILDR1, a Tricellular Tight Junction-Associated Membrane Protein, Causes Deafness with Cochlear Hair Cell Degeneration in Mice. PLoS ONE, 2015, 10, e0120674.	2.5	40
87	Flightless-I (Fli-I) Regulates the Actin Assembly Activity of Diaphanous-related Formins (DRFs) Daam1 and mDia1 in Cooperation with Active Rho GTPase. Journal of Biological Chemistry, 2010, 285, 16231-16238.	3.4	38
88	Promotion of Lymphatic Integrity by Angiopoietin-1/Tie2 Signaling during Inflammation. American Journal of Pathology, 2012, 180, 1273-1282.	3.8	38
89	A coronary artery disease-associated gene product, JCAD/KIAA1462, is a novel component of endothelial cellâ€“cell junctions. Biochemical and Biophysical Research Communications, 2011, 413, 224-229.	2.1	36
90	Claudin-2 Knockout by TALEN-Mediated Gene Targeting in MDCK Cells: Claudin-2 Independently Determines the Leaky Property of Tight Junctions in MDCK Cells. PLoS ONE, 2015, 10, e0119869.	2.5	35

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91	Physiological functions of junctional adhesion molecules (JAMs) in tight junctions. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183299.	2.6	35
92	Claudin-2 Regulates Colorectal Inflammation via Myosin Light Chain Kinase-Dependent Signaling. Digestive Diseases and Sciences, 2013, 58, 1546-1559.	2.3	34
93	Lipolysisâ€stimulated lipoprotein receptor: a novel membrane protein of tricellular tight junctions. Annals of the New York Academy of Sciences, 2012, 1257, 54-58.	3.8	29
94	Molecular dissection of smooth septate junctions: understanding their roles in arthropod physiology. Annals of the New York Academy of Sciences, 2017, 1397, 17-24.	3.8	29
95	Angulin-1 seals tricellular contacts independently of tricellulin and claudins. Journal of Cell Biology, 2021, 220, .	5.2	27
96	Claudins and renal salt transport. Clinical and Experimental Nephrology, 2012, 16, 61-67.	1.6	25
97	<scp>JNK</scp>1/2â€dependent phosphorylation of angulinâ€1/<scp>LSR</scp> is required for the exclusive localization of angulinâ€1/<scp>LSR</scp> and tricellulin at tricellular contacts in EpH4 epithelial sheet. Genes To Cells, 2014, 19, 565-581.	1.2	25
98	Targeted Disruption of JCAD (Junctional Protein Associated With Coronary Artery Disease)/KIAA1462, a Coronary Artery Diseaseâ€"Associated Gene Product, Inhibits Angiogenic Processes In Vitro and In Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1667-1673.	2.4	25
99	Septate junctions regulate gut homeostasis through regulation of stem cell proliferation and enterocyte behavior in <i>Drosophila</i>. Journal of Cell Science, 2019, 132, .	2.0	25
100	Claudin-4 induction by E-protein activity in later stages of CD4/8 double-positive thymocytes to increase positive selection efficiency. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4075-4080.	7.1	24
101	Phosphorylation state regulates the localization of Scribble at adherens junctions and its association with E-cadherinâ€"catenin complexes. Experimental Cell Research, 2011, 317, 413-422.	2.6	22
102	Nuclear Localization and Transforming Activity of Human Papillomavirus Type 16 E7-Î²-Galactosidase Fusion Protein: Characterization of the Nuclear Localization Sequence. Virology, 1994, 204, 789-793.	2.4	21
103	Identification of adherens junction-associated GTPase activating proteins by the fluorescence localization-based expression cloning. Experimental Cell Research, 2008, 314, 939-949.	2.6	21
104	The Role of Claudinâ€Based Tight Junctions in Morphogenesis. Annals of the New York Academy of Sciences, 2009, 1165, 58-61.	3.8	21
105	Downsloping High-Frequency Hearing Loss Due to Inner Ear Tricellular Tight Junction Disruption by a Novel ILDR1 Mutation in the Ig-Like Domain. PLoS ONE, 2015, 10, e0116931.	2.5	20
106	abLIM3 is a novel component of adherens junctions with actin-binding activity. European Journal of Cell Biology, 2010, 89, 807-816.	3.6	17
107	The septate junction protein Mesh is required for epithelial morphogenesis, ion transport, and paracellular permeability in the Drosophila Malpighian tubule. American Journal of Physiology - Cell Physiology, 2020, 318, C675-C694.	4.6	16
108	The extracellular domain of angulin-1 and palmitoylation of its cytoplasmic region are required for angulin-1 assembly at tricellular contacts. Journal of Biological Chemistry, 2020, 295, 4289-4302.	3.4	16

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109	1H, 13C, and 15N resonance assignment of the first PDZ domain of mouse ZO-1. Biomolecular NMR Assignments, 2011, 5, 207-210.	0.8	14
110	Claudinâ€5 haploinsufficiency exacerbates <scp>UVB</scp>â€induced oedema formation by inducing lymphatic vessel leakage. Experimental Dermatology, 2012, 21, 557-559.	2.9	14
111	Effects of Osmolality on Paracellular Transport in MDCK II Cells. PLoS ONE, 2016, 11, e0166904.	2.5	14
112	The septate junction protein Tetraspanin 2A is critical to the structure and function of Malpighian tubules in<i>Drosophila melanogaster</i>. American Journal of Physiology - Cell Physiology, 2020, 318, C1107-C1122.	4.6	14
113	Selective expression of claudin-5 in thymic endothelial cells regulates the bloodâ€"thymus barrier and T-cell export. International Immunology, 2021, 33, 171-182.	4.0	13
114	JAM-A interacts with Î±3Î²1 integrin and tetraspanins CD151 and CD9 to regulate collective cell migration of polarized epithelial cells. Cellular and Molecular Life Sciences, 2022, 79, 88.	5.4	13
115	Erebosis, a new cell death mechanism during homeostatic turnover of gut enterocytes. PLoS Biology, 2022, 20, e3001586.	5.6	12
116	Angulin-2/ILDR1, a tricellular tight junction protein, does not affect water transport in the mouse large intestine. Scientific Reports, 2020, 10, 10374.	3.3	9
117	Claudin-9 constitutes tight junctions of folliculo-stellate cells in the anterior pituitary gland. Scientific Reports, 2021, 11, 21642.	3.3	9
118	Overexpression of Interferon Î±/Î² Receptor Î² Chain in Fetal Down Syndrome Brain. Neuroembryology and Aging, 2003, 2, 147-155.	0.1	8
119	The novel membrane protein Hoka regulates septate junction organization and stem cell homeostasis in the<i>Drosophila</i>gut. Journal of Cell Science, 2021, 134, .	2.0	8
120	A â€œTricâ€to tighten cell-cell junctions in the cochlea for hearing. Journal of Clinical Investigation, 2013, 123, 3712-3715.	8.2	8
121	Claudin-4 knockout by TALEN-mediated gene targeting in MDCK cells: Claudin-4 is dispensable for the permeability properties of tight junctions in wild-type MDCK cells. PLoS ONE, 2017, 12, e0182521.	2.5	8
122	Recent advances in understanding tight junctions. Faculty Reviews, 2021, 10, 18.	3.9	7
123	Generation of transgenic medaka expressing claudin7-EGFP for imaging of tight junctions in living medaka embryos. Cell and Tissue Research, 2009, 335, 465-471.	2.9	6
124	Effects of Hydrostatic Pressure on Carcinogenic Properties of Epithelia. PLoS ONE, 2015, 10, e0145522.	2.5	6
125	Loss of Claudin-3 Impairs Hepatic Metabolism, Biliary Barrier Function, and Cell Proliferation in the Murine Liver. Cellular and Molecular Gastroenterology and Hepatology, 2021, 12, 745-767.	4.5	5
126	Induction of strong homotypic adhesion in human T cell lines positive with human T-cell leukemia virus type 1 by monoclonal antibodies to MHC class I and Î²2-microglobulin. Cellular Immunology, 1992, 143, 298-309.	3.0	4

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127	<i>Ripply3</i> is required for the maintenance of epithelial sheets in the morphogenesis of pharyngeal pouches. Development Growth and Differentiation, 2018, 60, 87-96.	1.5	3
128	In Vivo Imaging of Tight Junctions Using Claudinâ€"EGFP Transgenic Medaka. Methods in Molecular Biology, 2011, 762, 171-178.	0.9	2
129	A tetraspanin regulates septate junction formation in <i>Drosophila</i> midgut. Development (Cambridge), 2016, 143, e1.1-e1.1.	2.5	2
130	The blood- brain barrier and barrier function in vivo: the role of tight junctions. Drug Delivery System, 2013, 28, 279-286.	0.0	1
131	Tricellular Tight Junctions. , 2022, , 11-26.		1
132	Shoichiro Tsukita 1953â€"2005. Trends in Cell Biology, 2006, 16, 175.	7.9	0
133	1P-238 Search for compounds that modulate tight-junction activity : structural biology and computational approaches(Bioinformatics:Structural genomics, The 47th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
134	2P010 X-ray Crystallography of PDZ domain from LNX1, an E3 ubiquitin ligase regulating intercellular adhesion machinery(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S83.	0.1	0
135	Optimal liver metabolism and proliferation require the tight junction protein claudin-3. Journal of Hepatology, 2020, 73, S245-S246.	3.7	0
136	Claudins: Structural and Functional Molecular Constituents of Tight Junction Barrier.. Seibutsu Butsuri, 2000, 40, 229-233.	0.1	0