

# Gerhard Wiche

## List of Publications by Citations

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204  
ext. papers

11,869  
ext. citations

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L-index

#	Paper	IF	Citations
198	Accumulation of abnormally phosphorylated tau precedes the formation of neurofibrillary tangles in Alzheimer's disease. <i>Brain Research</i> , <b>1989</b> , 477, 90-9	3.7	710
197	Plectin deficiency results in muscular dystrophy with epidermolysis bullosa. <i>Nature Genetics</i> , <b>1996</b> , 13, 450-7	36.3	358
196	Role of plectin in cytoskeleton organization and dynamics. <i>Journal of Cell Science</i> , <b>1998</b> , 111, 2477-2486	5.3	305
195	Targeted inactivation of plectin reveals essential function in maintaining the integrity of skin, muscle, and heart cytoarchitecture. <i>Genes and Development</i> , <b>1997</b> , 11, 3143-56	12.6	261
194	Linking integrin alpha6beta4-based cell adhesion to the intermediate filament cytoskeleton: direct interaction between the beta4 subunit and plectin at multiple molecular sites. <i>Journal of Cell Biology</i> , <b>1998</b> , 141, 209-25	7.3	228
193	Hedgehog partial agonism drives Warburg-like metabolism in muscle and brown fat. <i>Cell</i> , <b>2012</b> , 151, 414-22	47.2	191
192	Defective expression of plectin/HD1 in epidermolysis bullosa simplex with muscular dystrophy. <i>Journal of Clinical Investigation</i> , <b>1996</b> , 97, 2289-98	15.9	178
191	Cloning and sequencing of rat plectin indicates a 466-kD polypeptide chain with a three-domain structure based on a central alpha-helical coiled coil. <i>Journal of Cell Biology</i> , <b>1991</b> , 114, 83-99	7.3	170
190	Not just scaffolding: plectin regulates actin dynamics in cultured cells. <i>Genes and Development</i> , <b>1998</b> , 12, 3442-51	12.6	166
189	Basic amino acid residue cluster within nuclear targeting sequence motif is essential for cytoplasmic plectin-vimentin network junctions. <i>Journal of Cell Biology</i> , <b>1996</b> , 134, 1455-67	7.3	157
188	MAP1B is required for axon guidance and is involved in the development of the central and peripheral nervous system. <i>Journal of Cell Biology</i> , <b>2000</b> , 151, 1169-78	7.3	154
187	Occurrence and immunolocalization of plectin in tissues. <i>Journal of Cell Biology</i> , <b>1983</b> , 97, 887-901	7.3	148
186	Cytoskeleton-associated plectin: in situ localization, in vitro reconstitution, and binding to immobilized intermediate filament proteins. <i>Journal of Cell Biology</i> , <b>1988</b> , 106, 723-33	7.3	145
185	Molecular structure and function of microtubule-associated proteins. <i>International Review of Cytology</i> , <b>1991</b> , 124, 217-73		143
184	TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 3476-86	5.3	137
183	Identification of the cytolinker plectin as a major early in vivo substrate for caspase 8 during CD95- and tumor necrosis factor receptor-mediated apoptosis. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 5665-79	4.8	136
182	Novel features of the light chain of microtubule-associated protein MAP1B: microtubule stabilization, self interaction, actin filament binding, and regulation by the heavy chain. <i>Journal of Cell Biology</i> , <b>1998</b> , 143, 695-707	7.3	131

181	Plectin-controlled keratin cytoarchitecture affects MAP kinases involved in cellular stress response and migration. <i>Journal of Cell Biology</i> , <b>2006</b> , 174, 557-68	7.3	129
180	Unusual 5Stranscript complexity of plectin isoforms: novel tissue-specific exons modulate actin binding activity. <i>Human Molecular Genetics</i> , <b>1999</b> , 8, 2461-72	5.6	129
179	Association of mitochondria with plectin and desmin intermediate filaments in striated muscle. <i>Experimental Cell Research</i> , <b>1999</b> , 252, 479-91	4.2	127
178	Plectin 1f scaffolding at the sarcolemma of dystrophic (mdx) muscle fibers through multiple interactions with beta-dystroglycan. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 965-77	7.3	124
177	Myofiber integrity depends on desmin network targeting to Z-disks and costameres via distinct plectin isoforms. <i>Journal of Cell Biology</i> , <b>2008</b> , 181, 667-81	7.3	119
176	Role of plectin in cytoskeleton organization and dynamics. <i>Journal of Cell Science</i> , <b>1998</b> , 111 ( Pt 17), 2477-86	5.3	116
175	Human plectin: organization of the gene, sequence analysis, and chromosome localization (8q24). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 4278-83	11.5	113
174	Plectin and IFAP-300K are homologous proteins binding to microtubule-associated proteins 1 and 2 and to the 240-kilodalton subunit of spectrin. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 1320-5	5.4	112
173	Plectin and IFAP-300K are homologous proteins binding to microtubule-associated proteins 1 and 2 and to the 240-kilodalton subunit of spectrin.. <i>Journal of Biological Chemistry</i> , <b>1987</b> , 262, 1320-1325	5.4	112
172	A binding motif for Siah ubiquitin ligase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 3101-6	11.5	111
171	Expression of plectin mutant cDNA in cultured cells indicates a role of COOH-terminal domain in intermediate filament association. <i>Journal of Cell Biology</i> , <b>1993</b> , 121, 607-19	7.3	111
170	Mechanosensing through focal adhesion-anchored intermediate filaments. <i>FASEB Journal</i> , <b>2014</b> , 28, 715-29		106
169	Plectin transcript diversity: identification and tissue distribution of variants with distinct first coding exons and rodless isoforms. <i>Genomics</i> , <b>1997</b> , 42, 115-25	4.3	106
168	Neurofibrillary tangles in Alzheimer's disease and progressive supranuclear palsy: antigenic similarities and differences. Microtubule-associated protein tau antigenicity is prominent in all types of tangles. <i>Acta Neuropathologica</i> , <b>1987</b> , 74, 39-46	14.3	105
167	Trichoplein/mitostatin regulates endoplasmic reticulum-mitochondria juxtaposition. <i>EMBO Reports</i> , <b>2010</b> , 11, 854-60	6.5	100
166	High-Mr microtubule-associated proteins: properties and functions. <i>Biochemical Journal</i> , <b>1989</b> , 259, 1-12	3.8	100
165	The many faces of plectin and plectinopathies: pathology and mechanisms. <i>Acta Neuropathologica</i> , <b>2013</b> , 125, 77-93	14.3	99
164	Molecular architecture and function of the hemidesmosome. <i>Cell and Tissue Research</i> , <b>2015</b> , 360, 529-44	4.2	97

163	Intermediate filament-associated proteins. <i>Current Opinion in Cell Biology</i> , <b>1991</b> , 3, 75-81	9	97
162	Protein kinase A- and protein kinase C-regulated interaction of plectin with lamin B and vimentin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 3812-6	11.5	96
161	A site-specific plectin mutation causes dominant epidermolysis bullosa simplex Ogna: two identical de novo mutations. <i>Journal of Investigative Dermatology</i> , <b>2002</b> , 118, 87-93	4.3	92
160	Plectin-RACK1 (receptor for activated C kinase 1) scaffolding: a novel mechanism to regulate protein kinase C activity. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 18701-10	5.4	90
159	Immunolocalization of the intermediate filament-associated protein plectin at focal contacts and actin stress fibers. <i>European Journal of Cell Biology</i> , <b>1992</b> , 59, 138-47	6.1	90
158	Keeping the vimentin network under control: cell-matrix adhesion-associated plectin 1f affects cell shape and polarity of fibroblasts. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 3362-75	3.5	89
157	Plectin isoform 1b mediates mitochondrion-intermediate filament network linkage and controls organelle shape. <i>Journal of Cell Biology</i> , <b>2008</b> , 181, 903-11	7.3	85
156	Microtubule-associated protein 1A (MAP1A) and MAP1B: light chains determine distinct functional properties. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 2106-14	6.6	82
155	Plectin 5Stranscript diversity: short alternative sequences determine stability of gene products, initiation of translation and subcellular localization of isoforms. <i>Human Molecular Genetics</i> , <b>2003</b> , 12, 3181-94	5.6	82
154	Structure and hydrodynamic properties of plectin molecules. <i>Journal of Molecular Biology</i> , <b>1987</b> , 198, 515-31	6.5	82
153	Plectin-intermediate filament partnership in skin, skeletal muscle, and peripheral nerve. <i>Histochemistry and Cell Biology</i> , <b>2013</b> , 140, 33-53	2.4	81
152	Plectin isoforms as organizers of intermediate filament cytoarchitecture. <i>Bioarchitecture</i> , <b>2011</b> , 1, 14-20		81
151	Plectin: general overview and appraisal of its potential role as a subunit protein of the cytomatrix. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>1989</b> , 24, 41-67	8.7	80
150	Disorganization of the desmin cytoskeleton and mitochondrial dysfunction in plectin-related epidermolysis bullosa simplex with muscular dystrophy. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2002</b> , 61, 520-30	3.1	79
149	Plectin-isoform-specific rescue of hemidesmosomal defects in plectin (-/-) keratinocytes. <i>Journal of Investigative Dermatology</i> , <b>2003</b> , 120, 189-97	4.3	78
148	Networking and anchoring through plectin: a key to IF functionality and mechanotransduction. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 32, 21-9	9	74
147	Identification of plectin in different human cell types and immunolocalization at epithelial basal cell surface membranes. <i>Experimental Cell Research</i> , <b>1984</b> , 155, 43-9	4.2	74
146	An Organoruthenium Anticancer Agent Shows Unexpected Target Selectivity For Plectin. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8267-8271	16.4	71

145	High molecular weight polypeptides (270,000-340,000) from cultured cells are related to hog brain microtubule-associated proteins but copurify with intermediate filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1980</b> , 77, 4808-12	11.5	70
144	Unexpected gain of function for the scaffolding protein plectin due to mislocalization in pancreatic cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 19414-9	11.5	69
143	Polarisation-dependent association of plectin with desmoplakin and the lateral submembrane skeleton in MDCK cells. <i>Journal of Cell Science</i> , <b>1997</b> , 110, 1307-1316	5.3	67
142	Vimentin intermediate filament and plectin provide a scaffold for invadopodia, facilitating cancer cell invasion and extravasation for metastasis. <i>European Journal of Cell Biology</i> , <b>2014</b> , 93, 157-69	6.1	66
141	Cytoplasmic network arrays demonstrated by immunolocalization using antibodies to a high molecular weight protein present in cytoskeletal preparations from cultured cells. <i>Experimental Cell Research</i> , <b>1982</b> , 138, 15-29	4.2	64
140	Differences in the distribution of synemin, paranemin, and plectin in skeletal muscles of wild-type and desmin knock-out mice. <i>Histochemistry and Cell Biology</i> , <b>2000</b> , 114, 39-47	2.4	62
139	Distribution of plectin, an intermediate filament-associated protein, in the adult rat central nervous system. <i>Journal of Neuroscience Research</i> , <b>1994</b> , 37, 515-28	4.4	62
138	Plectin regulates the organization of glial fibrillary acidic protein in Alexander disease. <i>American Journal of Pathology</i> , <b>2006</b> , 168, 888-97	5.8	61
137	Dose-dependent linkage, assembly inhibition and disassembly of vimentin and cytokeratin 5/14 filaments through plectin's intermediate filament-binding domain. <i>Journal of Cell Science</i> , <b>2000</b> , 113, 483-491	5.3	58
136	Molecular architecture and function of the hemidesmosome. <i>Cell and Tissue Research</i> , <b>2015</b> , 360, 363-78	4.2	57
135	Plectin: a cytolinker by design. <i>Biological Chemistry</i> , <b>1999</b> , 380, 151-8	4.5	57
134	Chemical chaperone ameliorates pathological protein aggregation in plectin-deficient muscle. <i>Journal of Clinical Investigation</i> , <b>2014</b> , 124, 1144-57	15.9	57
133	Immunogold localisation of the intermediate chain within the protein complex of cytoplasmic dynein. <i>Journal of Structural Biology</i> , <b>1996</b> , 117, 227-35	3.4	56
132	Plectin: a high-molecular-weight cytoskeletal polypeptide component that copurifies with intermediate filaments of the vimentin type. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>1982</b> , 46 Pt 1, 475-82	3.9	56
131	5Strans-splicing repair of the PLEC1 gene. <i>Journal of Investigative Dermatology</i> , <b>2008</b> , 128, 568-74	4.3	55
130	Plectin defects in epidermolysis bullosa simplex with muscular dystrophy. <i>Muscle and Nerve</i> , <b>2007</b> , 35, 24-35	3.4	54
129	Plectin scaffolds recruit energy-controlling AMP-activated protein kinase (AMPK) in differentiated myofibres. <i>Journal of Cell Science</i> , <b>2006</b> , 119, 1864-75	5.3	54
128	Actin-binding domain of mouse plectin. Crystal structure and binding to vimentin. <i>FEBS Journal</i> , <b>2004</b> , 271, 1873-84		51

127	Distribution and ultrastructure of plectin arrays in subclones of rat glioma C6 cells differing in intermediate filament protein (vimentin) expression. <i>Journal of Structural Biology</i> , <b>1995</b> , 115, 304-17	3.4	50
126	High-molecular-weight microtubule associated proteins (MAPS): a ubiquitous family of cytoskeletal connecting links. <i>Trends in Biochemical Sciences</i> , <b>1985</b> , 10, 67-70	10.3	50
125	Monoclonal antibody mapping of structural and functional plectin epitopes. <i>Journal of Cell Biology</i> , <b>1991</b> , 112, 397-405	7.3	49
124	Identification of two distinct microtubule binding domains on recombinant rat MAP 1B. <i>European Journal of Cell Biology</i> , <b>1992</b> , 57, 66-74	6.1	49
123	Targeted proteolysis of plectin isoform 1a accounts for hemidesmosome dysfunction in mice mimicking the dominant skin blistering disease EBS-Ogna. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002396	6	47
122	Crystal structure of a tandem pair of fibronectin type III domains from the cytoplasmic tail of integrin alpha6beta4. <i>EMBO Journal</i> , <b>1999</b> , 18, 4087-95	13	47
121	M-phase-specific phosphorylation and structural rearrangement of the cytoplasmic cross-linking protein plectin involve p34cdc2 kinase. <i>Molecular Biology of the Cell</i> , <b>1996</b> , 7, 273-88	3.5	46
120	A compound heterozygous one amino-acid insertion/nonsense mutation in the plectin gene causes epidermolysis bullosa simplex with plectin deficiency. <i>American Journal of Pathology</i> , <b>2001</b> , 158, 617-25	5.8	46
119	A panel of monoclonal antibodies to rat plectin: distinction by epitope mapping and immunoreactivity with different tissues and cell lines. <i>Acta Histochemica</i> , <b>1994</b> , 96, 421-38	2	46
118	Preferential binding of hog brain microtubule-associated proteins to mouse satellite versus bulk DNA preparations. <i>Nature</i> , <b>1978</b> , 273, 403-5	50.4	46
117	Plectin gene defects lead to various forms of epidermolysis bullosa simplex. <i>Dermatologic Clinics</i> , <b>2010</b> , 28, 33-41	4.2	44
116	Keratins Stabilize Hemidesmosomes through Regulation of $\beta$ -Integrin Turnover. <i>Journal of Investigative Dermatology</i> , <b>2015</b> , 135, 1609-1620	4.3	43
115	Targeted ablation of plectin isoform 1 uncovers role of cytolinker proteins in leukocyte recruitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 18449-54	11.5	43
114	Effects of DNA on microtubule assembly. <i>FEBS Journal</i> , <b>1980</b> , 105, 7-16		43
113	Differential distribution of microtubule-associated proteins MAP-1 and MAP-2 in neurons of rat brain and association of MAP-1 with microtubules of neuroblastoma cells (clone N2A).. <i>EMBO Journal</i> , <b>1983</b> , 2, 1915-1920	13	42
112	Plectin isoform-dependent regulation of keratin-integrin alpha6beta4 anchorage via Ca <sup>2+</sup> /calmodulin. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 18525-36	5.4	41
111	Conditional targeting of plectin in prenatal and adult mouse stratified epithelia causes keratinocyte fragility and lesional epidermal barrier defects. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 2435-43	5.3	41
110	Specific in situ phosphorylation of plectin in detergent-resistant cytoskeletons from cultured Chinese hamster ovary cells. <i>Journal of Biological Chemistry</i> , <b>1983</b> , 258, 14610-8	5.4	41

109	Plectin reinforces vascular integrity by mediating crosstalk between the vimentin and the actin networks. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 4138-50	5.3	40
108	Plectin from bovine lenses. Chemical properties, structural analysis and initial identification of interaction partners. <i>FEBS Journal</i> , <b>1987</b> , 169, 41-52		39
107	Reversible in vitro polymerization of tubulin from a cultured cell line (rat glial cell clone C6). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1976</b> , 73, 1227-31	11.5	39
106	Microheterogeneity of microtubule-associated proteins, MAP-1 and MAP-2, and differential phosphorylation of individual subcomponents. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 5797-803	5.4	39
105	Recessive epidermolysis bullosa simplex associated with plectin mutations: infantile respiratory complications in two unrelated cases. <i>British Journal of Dermatology</i> , <b>1997</b> , 137, 898-906	4	39
104	Specific in situ phosphorylation of plectin in detergent-resistant cytoskeletons from cultured Chinese hamster ovary cells.. <i>Journal of Biological Chemistry</i> , <b>1983</b> , 258, 14610-14618	5.4	39
103	Intermediate filament-associated cytolinker plectin 1c destabilizes microtubules in keratinocytes. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 768-84	3.5	38
102	Direct binding of plectin to Fer kinase and negative regulation of its catalytic activity. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 296, 904-10	3.4	37
101	Aciculin interacts with filamin C and Xin and is essential for myofibril assembly, remodeling and maintenance. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 3578-92	5.3	36
100	The mouse and rat MAP1B genes: genomic organization and alternative transcription. <i>Genomics</i> , <b>1998</b> , 49, 430-6	4.3	36
99	Plectin contributes to mechanical properties of living cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 296, C868-77	5.4	35
98	High-pressure freezing of epithelial cells on sapphire coverslips. <i>Journal of Microscopy</i> , <b>2004</b> , 213, 81-5	1.9	35
97	Widespread occurrence of polypeptides related to neurotubule-associated proteins (MAP-1 and MAP-2) in non-neuronal cells and tissues.. <i>EMBO Journal</i> , <b>1984</b> , 3, 991-998	13	35
96	Mutation in exon 1a of PLEC, leading to disruption of plectin isoform 1a, causes autosomal-recessive skin-only epidermolysis bullosa simplex. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 3155-56	5.6	34
95	Identification and spatial arrangement of high molecular weight proteins (Mr 300 000-330 000) co-assembling with microtubules from a cultured cell line (rat glioma C6). <i>European Journal of Cell Biology</i> , <b>1985</b> , 38, 149-56	6.1	34
94	Plectin isoform P1b and P1d deficiencies differentially affect mitochondrial morphology and function in skeletal muscle. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 4530-44	5.6	33
93	Identification of plectin as a substrate of p34cdc2 kinase and mapping of a single phosphorylation site. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 8203-8	5.4	33
92	Plectin deficiency affects precursor formation and dynamics of vimentin networks. <i>Experimental Cell Research</i> , <b>2008</b> , 314, 3570-80	4.2	32

91	Mutation reports: epidermolysis bullosa simplex associated with severe mucous membrane involvement and novel mutations in the plectin gene. <i>Journal of Investigative Dermatology</i> , <b>2000</b> , 114, 376-80	4.3	32
90	Plectin abnormality in epidermolysis bullosa simplex Ogna: non-responsiveness of basal keratinocytes to some anti-rat plectin antibodies. <i>Experimental Dermatology</i> , <b>1997</b> , 6, 41-8	4	31
89	Oxidation and nitrosylation of cysteines proximal to the intermediate filament (IF)-binding site of plectin: effects on structure and vimentin binding and involvement in IF collapse. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 8175-87	5.4	31
88	Plectin repeats and modules: strategic cysteines and their presumed impact on cytolinker functions. <i>BioEssays</i> , <b>2001</b> , 23, 1064-9	4.1	31
87	The cytolinker plectin regulates nuclear mechanotransduction in keratinocytes. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 4475-86	5.3	30
86	Plectin. <i>Methods in Cell Biology</i> , <b>2004</b> , 78, 721-755	1.8	30
85	Silencing GFAP isoforms in astrocytoma cells disturbs laminin-dependent motility and cell adhesion. <i>FASEB Journal</i> , <b>2014</b> , 28, 2942-54	0.9	29
84	Morphological integrity of single adult cardiac myocytes isolated by collagenase treatment: immunolocalization of tubulin, microtubule-associated proteins 1 and 2, plectin, vimentin, and vinculin. <i>European Journal of Cell Biology</i> , <b>1985</b> , 38, 113-22	6.1	29
83	Microheterogeneity of microtubule-associated proteins, MAP-1 and MAP-2, and differential phosphorylation of individual subcomponents.. <i>Journal of Biological Chemistry</i> , <b>1985</b> , 260, 5797-5803	5.4	29
82	Epiplakin gene analysis in mouse reveals a single exon encoding a 725-kDa protein with expression restricted to epithelial tissues. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 31657-66	5.4	28
81	Dose-dependent linkage, assembly inhibition and disassembly of vimentin and cytokeratin 5/14 filaments through plectin's intermediate filament-binding domain. <i>Journal of Cell Science</i> , <b>2000</b> , 113 ( Pt 3), 483-91	5.3	26
80	Plectin isoform 1-dependent nuclear docking of desmin networks affects myonuclear architecture and expression of mechanotransducers. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 7373-89	5.6	25
79	Determining the mechanical properties of plectin in mouse myoblasts and keratinocytes. <i>Experimental Cell Research</i> , <b>2015</b> , 331, 331-7	4.2	25
78	Targeted inactivation of a developmentally regulated neural plectin isoform (plectin 1c) in mice leads to reduced motor nerve conduction velocity. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 26502-9	5.4	25
77	Epiplakin is dispensable for skin barrier function and for integrity of keratin network cytoarchitecture in simple and stratified epithelia. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 559-68	4.8	24
76	Competence of soluble cell extracts as microtubule assembly systems. Comparison of simian virus 40 transformed and nontransformed mouse 3T3 fibroblasts. <i>Journal of Biological Chemistry</i> , <b>1977</b> , 252, 794-6	5.4	24
75	Polarisation-dependent association of plectin with desmoplakin and the lateral submembrane skeleton in MDCK cells. <i>Journal of Cell Science</i> , <b>1997</b> , 110 ( Pt 11), 1307-16	5.3	24
74	Structural insights into Ca <sup>2+</sup> -calmodulin regulation of Plectin 1a-integrin $\beta$ interaction in hemidesmosomes. <i>Structure</i> , <b>2015</b> , 23, 558-570	5.2	23



73	Linking cytoarchitecture to metabolism: sarcolemma-associated plectin affects glucose uptake by destabilizing microtubule networks in mdx myofibers. <i>Skeletal Muscle</i> , <b>2013</b> , 3, 14	5.1	22
72	Differential distribution of microtubule-associated proteins MAP-1 and MAP-2 in neurons of rat brain and association of MAP-1 with microtubules of neuroblastoma cells (clone N2A). <i>EMBO Journal</i> , <b>1983</b> , 2, 1915-20	13	22
71	Neuromuscular synapse integrity requires linkage of acetylcholine receptors to postsynaptic intermediate filament networks via rapsyn-plectin 1f complexes. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 4130-49	3.5	21
70	In vivo characterization of human myofibrillar myopathy genes in zebrafish. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 461, 217-23	3.4	20
69	Stabilization of the dystroglycan complex in Cajal bands of myelinating Schwann cells through plectin-mediated anchorage to vimentin filaments. <i>Glia</i> , <b>2013</b> , 61, 1274-87	9	20
68	FIP-2, an I kappa B-kinase-gamma-related protein, is associated with the Golgi apparatus and translocates to the marginal band during chicken erythroblast differentiation. <i>Experimental Cell Research</i> , <b>2002</b> , 278, 133-45	4.2	20
67	Widespread occurrence of polypeptides related to neurotubule-associated proteins (MAP-1 and MAP-2) in non-neuronal cells and tissues. <i>EMBO Journal</i> , <b>1984</b> , 3, 991-8	13	20
66	Immunolocalization and molecular properties of a high molecular weight microtubule-bundling protein (syncolin) from chicken erythrocytes. <i>Journal of Cell Biology</i> , <b>1991</b> , 112, 689-99	7.3	19
65	Stress-induced recruitment of epiplakin to keratin networks increases their resistance to hyperphosphorylation-induced disruption. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 825-33	5.3	18
64	Severe mucous membrane involvement in epidermolysis bullosa simplex with muscular dystrophy due to a novel plectin gene mutation. <i>European Journal of Pediatrics</i> , <b>2004</b> , 163, 218-22	4.1	18
63	Plectin. <i>Methods in Cell Biology</i> , <b>2004</b> , 78, 721-55	1.8	18
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- 1 Cytoskeleton | Intermediate Filament Linker Proteins: Plectin and BPAG1 **2021**, 200-219