Martin W Berchtold

List of Publications by Year
in descending order

75 papers	5,268 citations	136950 32 h-index	88630 70 g-index
75 all docs	75 docs citations	75 times ranked	6454 citing authors

#	Article	IF	Citations
1	A family of conserved bacterial virulence factors dampens interferon responses by blocking calcium signaling. Cell, 2022, 185, 2354-2369.e17.	28.9	26
2	Calmodulin downregulation in conditional knockout HeLa cells inhibits cell migration. Archives of Biochemistry and Biophysics, 2021, 697, 108680.	3.0	3
3	The heart arrhythmia-linked D130G calmodulin mutation causes premature inhibitory autophosphorylation of CaMKII. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119119.	4.1	3
4	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (edition	9.1	1,430
5	The impact of calmodulin on the cell cycle analyzed in a novel human cellular genetic system. Cell Calcium, 2020, 88, 102207.	2.4	9
6	The Role of Calmodulin in Tumor Cell Migration, Invasiveness, and Metastasis. International Journal of Molecular Sciences, 2020, 21, 765.	4.1	63
7	Proteins with calmodulin-like domains: structures and functional roles. Cellular and Molecular Life Sciences, 2019, 76, 2299-2328.	5.4	33
8	Calmodulin as a protein linker and a regulator of adaptor/scaffold proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 507-521.	4.1	72
9	ALG-2 participates in recovery of cells after plasma membrane damage by electroporation and digitonin treatment. PLoS ONE, 2018, 13, e0204520.	2.5	9
10	The Arrhythmogenic Calmodulin Mutation D129G Dysregulates Cell Growth, Calmodulin-dependent Kinase II Activity, and Cardiac Function in Zebrafish. Journal of Biological Chemistry, 2016, 291, 26636-26646.	3.4	24
11	Gene duplications and losses among vertebrate deoxyribonucleoside kinases of the non-TK1 Family. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 677-690.	1.1	0
12	OSCARâ€collagen signaling in monocytes plays a proinflammatory role and may contribute to the pathogenesis of rheumatoid arthritis. European Journal of Immunology, 2016, 46, 952-963.	2.9	19
13	Collagen Induces Maturation of Human Monocyte-Derived Dendritic Cells by Signaling through Osteoclast-Associated Receptor. Journal of Immunology, 2015, 194, 3169-3179.	0.8	26
14	The many faces of calmodulin in cell proliferation, programmed cell death, autophagy, and cancer. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 398-435.	4.1	264
15	Reevaluation of the proposed autocrine proliferative function of prolactin in breast cancer. Breast Cancer Research and Treatment, 2013, 142, 31-44.	2.5	33
16	ALG-2 Attenuates COPII Budding In Vitro and Stabilizes the Sec23/Sec31A Complex. PLoS ONE, 2013, 8, e75309.	2.5	41
17	Significance of Calcium Binding, Tyrosine Phosphorylation, and Lysine Trimethylation for the Essential Function of Calmodulin in Vertebrate Cells Analyzed in a Novel Gene Replacement System. Journal of Biological Chemistry, 2012, 287, 18173-18181.	3.4	18
18	Regulation of the Ligand-dependent Activation of the Epidermal Growth Factor Receptor by Calmodulin. Journal of Biological Chemistry, 2012, 287, 3273-3281.	3.4	34

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19	ALG-2 knockdown in HeLa cells results in G2/M cell cycle phase accumulation and cell death. Biochemical and Biophysical Research Communications, 2009, 378, 145-148.	2.1	34
20	The apoptosis linked gene ALGâ€2 is dysregulated in tumors of various origin and contributes to cancer cell viability. Molecular Oncology, 2008, 1, 431-439.	4.6	43
21	The calcium binding protein ALG-2 binds and stabilizes Scotin, a p53-inducible gene product localized at the endoplasmic reticulum membrane. Archives of Biochemistry and Biophysics, 2007, 467, 87-94.	3.0	22
22	The LTR promoter of the rat oncomodulin gene is regulated by cell-line specific accessibility in the LTR U3 region. Archives of Biochemistry and Biophysics, 2006, 447, 68-79.	3.0	4
23	The co-chaperone p23 is degraded by caspases and the proteasome during apoptosis. FEBS Letters, 2005, 579, 4187-4192.	2.8	22
24	ALG-2, a multifunctional calcium binding protein?. Frontiers in Bioscience - Landmark, 2004, 9, 1817.	3.0	37
25	Up-Regulation of ALG-2 in Hepatomas and Lung Cancer Tissue. American Journal of Pathology, 2003, 163, 81-89.	3.8	72
26	The PEF family proteins sorcin and grancalcin interact in vivo and in vitro. FEBS Letters, 2003, 545, 151-154.	2.8	23
27	Properties of the co-chaperone protein p23 erroneously attributed to ALG-2 (apoptosis-linked gene 2). FEBS Letters, 2003, 555, 478-482.	2.8	29
28	Epidermal Growth Factor-mediated Activation of the ETS Domain Transcription Factor Elk-1 Requires Nuclear Calcium. Journal of Biological Chemistry, 2002, 277, 27517-27527.	3.4	101
29	Calmodulin protects cells from death under normal growth conditions and mitogenic starvation but plays a mediating role in cell death upon B-cell receptor stimulation. Immunology, 2001, 103, 332-342.	4.4	19
30	Structure of rat parvalbumin with deleted AB domain: Implications for the evolution of EF hand calcium-binding proteins and possible physiological relevance. Proteins: Structure, Function and Bioinformatics, 2001, 45, 117-128.	2.6	21
31	The chicken B cell line DT40: a novel tool for gene disruption experiments. Journal of Immunological Methods, 2001, 249, 1-16.	1.4	119
32	Structure of Apoptosis-Linked Protein ALG-2. Structure, 2001, 9, 267-275.	3.3	77
33	Calcium Ion in Skeletal Muscle: Its Crucial Role for Muscle Function, Plasticity, and Disease. Physiological Reviews, 2000, 80, 1215-1265.	28.8	780
34	Two Forms of the Apoptosis-linked Protein ALG-2 with Different Ca2+ Affinities and Target Recognition. Journal of Biological Chemistry, 2000, 275, 10514-10518.	3.4	52
35	Remodeling of the AB site of rat parvalbumin and oncomodulin into a canonical EF-hand. FEBS Journal, 1999, 264, 790-799.	0.2	17
36	15N NMR Relaxation Studies of Calcium-Loaded Parvalbumin Show Tight Dynamics Compared to Those of Other EF-Hand Proteins. Biochemistry, 1998, 37, 9964-9975.	2.5	28

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37	High affinity calmodulin target sequence in the signalling molecule PI 3-kinase. FEBS Letters, 1998, 425, 175-177.	2.8	42
38	Phosphorylation of the PCNA Binding Domain of the Large Subunit of Replication Factor C by Ca2+/Calmodulin-Dependent Protein Kinase II Inhibits DNA Synthesisâ€. Biochemistry, 1997, 36, 5300-5310.	2.5	23
39	Expression of calmodulin and calmodulin binding proteins in rat fibroblasts stably transfected with protein kinase C and oncogenes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1359, 89-96.	4.1	12
40	Structure and expression of the chicken calmodulin I gene. Gene, 1997, 194, 63-68.	2.2	20
41	Down-regulation of the protein kinase A pathway by activators of protein kinase C and intracellular Ca2+in fibroblast cells. FEBS Letters, 1996, 391, 131-133.	2.8	10
42	V(D)J Recombination is Regulated Similarly inRAG-transfected Fibroblasts and Pre-B Cells. Journal of Molecular Biology, 1996, 261, 309-314.	4.2	7
43	The Ca2+-binding proteins parvalbumin and oncomodulin and their genes: new structural and functional findings. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1996, 1306, 39-54.	2.4	121
44	Site-Specific Replacement of Amino Acid Residues in the CD Site of Rat Parvalbumin Changes the Metal Specificity of this Ca2+/Mg2+-Mixed Site Toward a Ca2+-Specific Site. FEBS Journal, 1996, 242, 249-255.	0.2	18
45	Chimeras of Parvalbumin and Oncomodulin Involving Exchange of the Complete CD Site Show that the Ca2+/Mg2+ Specificity is an Intrinsic Property of the Site. FEBS Journal, 1996, 242, 256-263.	0.2	14
46	Calmodulin Binds to and Inhibits GTP Binding of the Ras-like GTPase Kir/Gem. Journal of Biological Chemistry, 1996, 271, 25067-25070.	3.4	51
47	Increase of skeletal muscle relaxation speed by direct injection of parvalbumin cDNA.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6504-6508.	7.1	115
48	Changes in Shape and Motility of Cells Transfected with Parvalbumin cDNA. Experimental Cell Research, 1995, 219, 420-426.	2.6	21
49	Calmodulin-like effect of oncomodulin on cell proliferation. Journal of Cellular Physiology, 1994, 160, 455-462.	4.1	17
50	Intracellular Ca2+ and Ca2+-Binding Proteins in Chemically Transformed Rat Fibroblasts. Experimental Cell Research, 1994, 213, 313-318.	2.6	14
51	Inactivation of Individual Ca2+-Binding Sites in the Paired EF-Hand Sites of Parvalbumin Reveals Asymmetrical Metal-Binding Properties. Biochemistry, 1994, 33, 10393-10400.	2.5	26
52	Evolution of EF-hand calcium-modulated proteins. V. The genes encoding EF-hand proteins are not clustered in mammalian genomes. Journal of Molecular Evolution, 1993, 36, 489-496.	1.8	15
53	Localization of the Human Bona Fide Calmodulin Genes CALM1, CALM2, and CALM3 to Chromosomes 14q24-q31, 2p21.1-p21.3, and 19q13.2-q13.3. Genomics, 1993, 16, 461-465.	2.9	82
54	Cloning of a mouse cDNA encoding DNA polymerase Î´: refinement of the homology boxes. Gene, 1993, 134, 191-200.	2.2	36

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55	[8] Efficient complementary dna amplification and expression using polymerase chain reaction technology. Methods in Enzymology, 1993, 217, 102-122.	1.0	14
56	Isolation and analysis of a human cDNA highly homologous to the yeast gene encoding L17A ribosomal protein. Gene, 1991, 102, 283-288.	2.2	8
57	High Levels of Oncomodulin and Calmodulin Expression in the Log Phase of Cell Growth in a Chemically Transformed Rat Fibroblast Cell Line. Advances in Experimental Medicine and Biology, 1990, 269, 121-125.	1.6	2
58	A simple method for direct cloning and sequencing cDNA by the use of a single specific oligonucleotide and oligo(dT) in a polymerase chain reaction (PCR). Nucleic Acids Research, 1989, 17, 453-453.	14.5	35
59	Structure and expression of genes encoding the three-domain Ca2+-binding proteins parvalbumin and oncomodulin. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1009, 201-215.	2.4	43
60	Parvalbumin genes from human and rat are identical in intron/exon organization and contain highly homologous regulatory elements and coding sequences. Journal of Molecular Biology, 1989, 210, 417-427.	4.2	33
61	Structural Organization of the Human Parvalbumin Gene. Advances in Experimental Medicine and Biology, 1989, 255, 251-256.	1.6	4
62	Opposite regulation of the mRNAs for parvalbumin and p19/6.8 in myotonic mouse muscle. FEBS Journal, 1988, 176, 153-158.	0.2	18
63	Increased calmodulin synthesis in the pre-replicative phase of rat liver regeneration. FEBS Letters, 1988, 231, 445-450.	2.8	23
64	Localization of sites of paralbumin gene expression. Biochemical Society Transactions, 1988, 16, 313-313.	3.4	0
65	[26] Cloning of the rat parvalbumin gene. Methods in Enzymology, 1987, 139, 317-325.	1.0	6
66	Expression of parvalbumin and other Ca2+-binding proteins in normal and tumor cells: A topical review. Cell Calcium, 1987, 8, 1-41.	2.4	146
67	Skin Calcium-Binding Protein Is a Parvalbumin of the Panniculus Carnosus. Journal of Investigative Dermatology, 1986, 86, 157-162.	0.7	9
68	The Ca2+-binding protein parvalbumin: molecular cloning and developmental regulation of mRNA abundance.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1414-1418.	7.1	53
69	Parvalbumin in Human Brain. Journal of Neurochemistry, 1985, 45, 235-239.	3.9	54
70	Parvalbumin in cross-reinnervated and denervated muscles. Muscle and Nerve, 1985, 8, 132-137.	2.2	45
71	Ca2+-binding proteins: A comparative study of their behavior during high-performance liquid chromatography using gradient elution on reverse-phase supports. Analytical Biochemistry, 1983, 129, 120-131.	2.4	31
72	Correlation of parvalbumin concentration with relaxation speed in mammalian muscles.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 7243-7247.	7.1	282

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73	Isolation of neuronal parvalbumin by high-performance liquid chromatography. Characterization and comparison with muscle parvalbumin. Biochemistry, 1982, 21, 6552-6557.	2.5	77
74	Primary Structure of Parvalbumin from Rat Skeletal Muscle. FEBS Journal, 1982, 127, 381-389.	0.2	66
75	Comparison of the high-performance liquid chromatography of peptides and proteins on 100- and 300-Å... reversed-phase supports. Journal of Chromatography A, 1982, 237, 407-416.	3.7	68