

Antonio Villalobo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

2,529
citations

27
h-index

47
g-index

93
ext. papers

2,720
ext. citations

4.3
avg, IF

5.29
L-index

#	Paper	IF	Citations
91	Calmodulin downregulation in conditional knockout HeLa cells inhibits cell migration. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 697, 108680	4.1	2
90	The role of the calmodulin-binding and calmodulin-like domains of the epidermal growth factor receptor in tyrosine kinase activation. <i>Journal of Cellular Physiology</i> , 2021 , 236, 4997-5011	7	1
89	Partners of wild type Grb7 and a mutant lacking its calmodulin-binding domain. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 687, 108386	4.1	0
88	The impact of calmodulin on the cell cycle analyzed in a novel human cellular genetic system. <i>Cell Calcium</i> , 2020 , 88, 102207	4	6
87	The Role of Calmodulin in Tumor Cell Migration, Invasiveness, and Metastasis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	32
86	Grb7-derived calmodulin-binding peptides inhibit proliferation, migration and invasiveness of tumor cells while they enhance attachment to the substrate. <i>Heliyon</i> , 2020 , 6, e03922	3.6	4
85	Proteins with calmodulin-like domains: structures and functional roles. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 2299-2328	10.3	22
84	Calmodulin as a protein linker and a regulator of adaptor/scaffold proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018 , 1865, 507-521	4.9	45
83	The multifunctional role of phospho-calmodulin in pathophysiological processes. <i>Biochemical Journal</i> , 2018 , 475, 4011-4023	3.8	18
82	Ca signaling and Src-kinases-controlled cellular functions. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 650, 59-74	4.1	15
81	The adaptors Grb10 and Grb14 are calmodulin-binding proteins. <i>FEBS Letters</i> , 2017 , 591, 1176-1186	3.8	7
80	Src-family tyrosine kinases and the Ca signal. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 915-932	4.9	26
79	O-GlcNAcylation of the human epidermal growth factor receptor. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 8196-204	3.9	8
78	Characterization of phospho-(tyrosine)-mimetic calmodulin mutants. <i>PLoS ONE</i> , 2015 , 10, e0120798	3.7	20
77	The activating role of phospho-(Tyr)-calmodulin on the epidermal growth factor receptor. <i>Biochemical Journal</i> , 2015 , 472, 195-204	3.8	13
76	Ca ²⁺ /Calmodulin and Apo-Calmodulin Both Bind to and Enhance the Tyrosine Kinase Activity of c-Src. <i>PLoS ONE</i> , 2015 , 10, e0128783	3.7	27
75	The many faces of calmodulin in cell proliferation, programmed cell death, autophagy, and cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 398-435	4.9	192

74	A premature termination of human epidermal growth factor receptor transcription in <i>Escherichia coli</i> . <i>Scientific World Journal, The</i> , 2014 , 2014, 830923	2.2	1
73	Time-dependent effect of orchidectomy on vascular nitric oxide and thromboxane A2 release. Functional implications to control cell proliferation through activation of the epidermal growth factor receptor. <i>PLoS ONE</i> , 2014 , 9, e102523	3.7	11
72	Ovariectomy regulates the production of prostanoids and the MAPK pathway in rat mesenteric arteries (LB675). <i>FASEB Journal</i> , 2014 , 28, LB675	0.9	
71	Nuclear magnetic resonance imaging of tumour growth and neovasculature performance in vivo reveals Grb7 as a novel antiangiogenic target. <i>NMR in Biomedicine</i> , 2013 , 26, 1059-69	4.4	12
70	Deletion of the calmodulin-binding domain of Grb7 impairs cell attachment to the extracellular matrix and migration. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 436, 271-7	3.4	11
69	Targeting the calmodulin-regulated ErbB/Grb7 signaling axis in cancer therapy. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2013 , 16, 177-89	3.4	14
68	Activation of the BRCA1/Chk1/p53/p21(Cip1/Waf1) pathway by nitric oxide and cell cycle arrest in human neuroblastoma NB69 cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2012 , 26, 182-91	5	13
67	Calmodulin regulates the translocation of Grb7 into the nucleus. <i>FEBS Letters</i> , 2012 , 586, 1533-9	3.8	13
66	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. <i>Journal of Biological Chemistry</i> , 2012 , 287, 18173-81	5.4	16
65	Regulation of the ligand-dependent activation of the epidermal growth factor receptor by calmodulin. <i>Journal of Biological Chemistry</i> , 2012 , 287, 3273-81	5.4	28
64	Down-regulation of the epidermal growth factor receptor by altering N-glycosylation: emerging role of β 1,4-galactosyltransferases. <i>Anticancer Research</i> , 2012 , 32, 1565-72	2.3	15
63	Nitric oxide changes distinct aspects of the glyco phenotype of human neuroblastoma NB69 cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2011 , 24, 91-101	5	10
62	Calmodulin-mediated regulation of the epidermal growth factor receptor. <i>FEBS Journal</i> , 2010 , 277, 327-37	3.7	37
61	S-Nitrosylation of the epidermal growth factor receptor: a regulatory mechanism of receptor tyrosine kinase activity. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 471-9	7.8	44
60	Differential p38 mitogen-activated protein kinase-controlled hypophosphorylation of the retinoblastoma protein induced by nitric oxide in neuroblastoma cells. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 353-66	7.8	8
59	Genomic organization and control of the grb7 gene family. <i>Current Genomics</i> , 2008 , 9, 60-8	2.6	24
58	Membrane-permeable calmodulin inhibitors (e.g. W-7/W-13) bind to membranes, changing the electrostatic surface potential: dual effect of W-13 on epidermal growth factor receptor activation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8474-86	5.4	46
57	A Guide to Signaling Pathways Connecting Protein-Glycan Interaction with the Emerging Versatile Effector Functionality of Mammalian Lectins. <i>Trends in Glycoscience and Glycotechnology</i> , 2006 , 18, 1-37	0.1	93

56	Nitric oxide and cell proliferation. <i>FEBS Journal</i> , 2006 , 273, 2329-44	5.7	130
55	Characterisation of tyrosine-phosphorylation-defective calmodulin mutants. <i>Protein Expression and Purification</i> , 2005 , 41, 384-92	2	12
54	Gap junction channels reconstituted in two closely apposed lipid bilayers. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 436, 128-35	4.1	4
53	Molecular analysis of the EGFR gene in astrocytic gliomas: mRNA expression, quantitative-PCR analysis of non-homogeneous gene amplification and DNA sequence alterations. <i>Neuropathology and Applied Neurobiology</i> , 2005 , 31, 384-94	5.2	35
52	The adaptor Grb7 is a novel calmodulin-binding protein: functional implications of the interaction of calmodulin with Grb7. <i>Oncogene</i> , 2005 , 24, 4206-19	9.2	27
51	Molecular analysis of the erbB gene family calmodulin-binding and calmodulin-like domains in astrocytic gliomas 2004 , 25, 1489		
50	Endogenous calmodulin interacts with the epidermal growth factor receptor in living cells. <i>FEBS Letters</i> , 2004 , 559, 175-80	3.8	34
49	The ErbB2/Neu/HER2 receptor is a new calmodulin-binding protein. <i>Biochemical Journal</i> , 2004 , 381, 257-66	5	32
48	Molecular analysis of the erbB gene family calmodulin-binding and calmodulin-like domains in astrocytic gliomas. <i>International Journal of Oncology</i> , 2004 , 25, 1489-94	1	5
47	Nitric oxide-induced epidermal growth factor-dependent phosphorylations in A431 tumour cells. <i>FEBS Journal</i> , 2003 , 270, 1828-37		22
46	Translocation of ErbB receptors into the nucleus 2003 , 5, 381-389		2
45	Antiproliferative effect of nitric oxide on epidermal growth factor-responsive human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2002 , 83, 119-31	6	48
44	Phosphorylation of calmodulin. Functional implications. <i>FEBS Journal</i> , 2002 , 269, 3619-31		114
43	Evidence for the direct interaction between calmodulin and the human epidermal growth factor receptor. <i>Biochemical Journal</i> , 2002 , 362, 499-505	3.8	40
42	The Epidermal Growth Factor Receptor and the Calcium Signal 2000 , 287-303		8
41	A method for the purification of phospho(Tyr)calmodulin free of nonphosphorylated calmodulin. <i>Protein Expression and Purification</i> , 1999 , 16, 388-95	2	15
40	The epidermal growth factor receptor tyrosine kinase phosphorylates connexin32. <i>Molecular and Cellular Biochemistry</i> , 1998 , 187, 201-10	4.2	23
39	Comparative phosphorylation of calmodulin from trypanosomatids and bovine brain by calmodulin-binding protein kinases. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1998 , 120, 57-65		13

38	The human epidermal growth factor receptor contains a juxtamembrane calmodulin-binding site. <i>Biochemistry</i> , 1998 , 37, 227-36	3.2	100
37	Signaling pathways for transduction of the initial message of the glycode into cellular responses. <i>Cells Tissues Organs</i> , 1998 , 161, 110-29	2.1	64
36	Phosphorylation of calmodulin by permeabilized fibroblasts overexpressing the human epidermal growth factor receptor. <i>Biological Chemistry</i> , 1997 , 378, 31-7	4.5	12
35	Nitric oxide reversibly inhibits the epidermal growth factor receptor tyrosine kinase. <i>Biochemical Journal</i> , 1997 , 326 (Pt 2), 369-76	3.8	81
34	Ehrlich ascites tumor cells produce a transforming growth factor-beta (TGFbeta)-like activity but lack receptors with TGFbeta-binding capacity. <i>Molecular and Cellular Biochemistry</i> , 1997 , 170, 153-62	4.2	10
33	Calmodulin prevents the proteolysis of connexin32 by m-calpain. <i>Bioelectrochemistry</i> , 1997 , 42, 207-211		5
32	Differential response of the epidermal growth factor receptor tyrosine kinase activity to several plant and mammalian lectins. <i>Molecular and Cellular Biochemistry</i> , 1995 , 142, 117-24	4.2	32
31	Regulatory interaction between calmodulin and the epidermal growth factor receptor. <i>Annals of the New York Academy of Sciences</i> , 1995 , 766, 472-6	6.5	18
30	Phosphorylation of connexin-32 by the epidermal growth factor receptor tyrosine kinase. <i>Annals of the New York Academy of Sciences</i> , 1995 , 766, 477-80	6.5	11
29	Phosphorylation of calmodulin by plasma-membrane-associated protein kinase(s). <i>FEBS Journal</i> , 1995 , 234, 50-8		10
28	Phosphorylation of calmodulin by the epidermal-growth-factor-receptor tyrosine kinase. <i>FEBS Journal</i> , 1994 , 224, 909-16		37
27	Phosphorylated and non-phosphorylated connexin-32 molecules in gap junction plaques are protected against calpain proteolysis after phosphorylation by protein kinase C. <i>Biochemical Society Transactions</i> , 1994 , 22, 793-6	5.1	10
26	Reconstitution of rat liver gap junctions into liposomes. <i>Biochemical Society Transactions</i> , 1994 , 22, 373S	5.1	1
25	Inhibition of the adenylation of liver plasma membrane-bound proteins by plant and mammalian lectins. <i>Biological Chemistry Hoppe-Seyler</i> , 1993 , 374, 133-41		6
24	The plasma membrane calcium pump: a multiregulated transporter. <i>Trends in Cell Biology</i> , 1992 , 2, 46-52	18.3	78
23	Reconstitution of ion-motive transport ATPases in artificial lipid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1017, 1-48	4.6	19
22	Calpain I activates Ca ²⁺ transport by the human erythrocyte plasma membrane calcium pump. <i>Advances in Experimental Medicine and Biology</i> , 1990 , 269, 175-80	3.6	3
21	Characterization of the fragmented forms of calcineurin produced by calpain I. <i>Biochemistry and Cell Biology</i> , 1989 , 67, 703-11	3.6	50

20	Calpain I activates Ca ²⁺ transport by the reconstituted erythrocyte Ca ²⁺ pump. <i>Journal of Membrane Biology</i> , 1989 , 112, 233-45	2.3	17
19	Calmodulin-binding proteins as calpain substrates. <i>Biochemical Journal</i> , 1989 , 262, 693-706	3.8	271
18	The (Ca ²⁺ + Mg ²⁺)-ATPase 1989 , 75-101		
17	Energy efficiency of different mechanistic models for potassium ion uptake in lower eukaryotic cells. <i>Folia Microbiologica</i> , 1988 , 33, 407-24	2.8	7
16	Further characterization of calpain-mediated proteolysis of the human erythrocyte plasma membrane Ca ²⁺ -ATPase. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 267, 317-27	4.1	41
15	Activation of the Ca ²⁺ -ATPase of human erythrocyte membrane by an endogenous Ca ²⁺ -dependent neutral protease. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 260, 696-704	4.1	81
14	The effect of calmodulin on the interaction of carbodiimides with the purified human erythrocyte (Ca ²⁺ + Mg ²⁺)-ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988 , 945, 33-40	3.8	6
13	Phosphorylation of liver plasma membrane-bound calmodulin. <i>Biochemistry and Cell Biology</i> , 1988 , 66, 922-7	3.6	5
12	Endogenous hyperphosphorylation in plasma membrane from an ascites hepatocarcinoma cell line. <i>Biochemistry and Cell Biology</i> , 1988 , 66, 1-12	3.6	13
11	Proton countertransport by the reconstituted erythrocyte Ca ²⁺ -translocating ATPase: evidence using ionophoretic compounds. <i>Journal of Membrane Biology</i> , 1986 , 93, 249-58	2.3	20
10	Kinetic properties of the purified Ca ²⁺ -translocating ATPase from human erythrocyte plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986 , 854, 9-20	3.8	30
9	Calcium-dependent inhibition of the erythrocyte Ca ²⁺ translocating ATPase by carbodiimides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986 , 858, 188-94	3.8	6
8	Energy-dependent H ⁺ and K ⁺ translocation by the reconstituted yeast plasma membrane ATPase. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1984 , 62, 865-877		19
7	H ⁺ stoichiometry of sites 1 + 2 of the respiratory chain of normal and tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1984 , 233, 417-27	4.1	4
6	The H ⁺ -ATPase of the yeast plasma membrane. <i>Annals of the New York Academy of Sciences</i> , 1982 , 402, 91-8	6.5	9
5	Electrogenic proton ejection coupled to electron transport through the energy-conserving site 2 and K ⁺ /H ⁺ exchange in yeast mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981 , 637, 124-9	4.6	16
4	Stoichiometry of H ⁺ ejection coupled to electron transport through site 2 in ascites tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 205, 210-6	4.1	8
3	The phosphorylation potentials generated by respiring Ehrlich ascites tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 203, 473-82	4.1	3

2	Respiration-coupled H ⁺ ejection by mitochondria. <i>Annals of the New York Academy of Sciences</i> , 1980 , 341, 585-92	6.5	13
1	Assimilatory nitrate reductase from <i>Acinetobacter calcoaceticus</i> . <i>Archives of Microbiology</i> , 1977 , 112, 127-32	3	15