

# Antonio Villalobo

## List of Publications by Citations

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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-binding proteins as calpain substrates. <i>Biochemical Journal</i> , <b>1989</b> , 262, 693-706  | 3.8  | 271       |
| 90 | The many faces of calmodulin in cell proliferation, programmed cell death, autophagy, and cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2014</b> , 1843, 398-435  | 4.9  | 192       |
| 89 | Nitric oxide and cell proliferation. <i>FEBS Journal</i> , <b>2006</b> , 273, 2329-44   | 5.7  | 130       |
| 88 | Phosphorylation of calmodulin. Functional implications. <i>FEBS Journal</i> , <b>2002</b> , 269, 3619-31  |      | 114       |
| 87 | The human epidermal growth factor receptor contains a juxtamembrane calmodulin-binding site. <i>Biochemistry</i> , <b>1998</b> , 37, 227-36   | 3.2  | 100       |
| 86 | 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> , <b>2006</b> , 18, 1-37   | 0.1  | 93        |
| 85 | Nitric oxide reversibly inhibits the epidermal growth factor receptor tyrosine kinase. <i>Biochemical Journal</i> , <b>1997</b> , 326 ( Pt 2), 369-76   | 3.8  | 81        |
| 84 | Activation of the Ca <sup>2+</sup> -ATPase of human erythrocyte membrane by an endogenous Ca <sup>2+</sup> -dependent neutral protease. <i>Archives of Biochemistry and Biophysics</i> , <b>1988</b> , 260, 696-704   | 4.1  | 81        |
| 83 | The plasma membrane calcium pump: a multiregulated transporter. <i>Trends in Cell Biology</i> , <b>1992</b> , 2, 46-52  | 18.3 | 78        |
| 82 | Signaling pathways for transduction of the initial message of the glycode into cellular responses. <i>Cells Tissues Organs</i> , <b>1998</b> , 161, 110-29  | 2.1  | 64        |
| 81 | Characterization of the fragmented forms of calcineurin produced by calpain I. <i>Biochemistry and Cell Biology</i> , <b>1989</b> , 67, 703-11  | 3.6  | 50        |
| 80 | Antiproliferative effect of nitric oxide on epidermal growth factor-responsive human neuroblastoma cells. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 119-31   | 6    | 48        |
| 79 | 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> , <b>2007</b> , 282, 8474-86 | 5.4  | 46        |
| 78 | Calmodulin as a protein linker and a regulator of adaptor/scaffold proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2018</b> , 1865, 507-521   | 4.9  | 45        |
| 77 | S-Nitrosylation of the epidermal growth factor receptor: a regulatory mechanism of receptor tyrosine kinase activity. <i>Free Radical Biology and Medicine</i> , <b>2009</b> , 46, 471-9  | 7.8  | 44        |
| 76 | Further characterization of calpain-mediated proteolysis of the human erythrocyte plasma membrane Ca <sup>2+</sup> -ATPase. <i>Archives of Biochemistry and Biophysics</i> , <b>1988</b> , 267, 317-27  | 4.1  | 41        |
| 75 | Evidence for the direct interaction between calmodulin and the human epidermal growth factor receptor. <i>Biochemical Journal</i> , <b>2002</b> , 362, 499-505  | 3.8  | 40        |

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|----|---|---------|
| 74 | Calmodulin-mediated regulation of the epidermal growth factor receptor. <i>FEBS Journal</i> , <b>2010</b> , 277, 327-37   | 37      |
| 73 | Phosphorylation of calmodulin by the epidermal-growth-factor-receptor tyrosine kinase. <i>FEBS Journal</i> , <b>1994</b> , 224, 909-16  | 37      |
| 72 | 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> , <b>2005</b> , 31, 384-94 | 5.2 35  |
| 71 | Endogenous calmodulin interacts with the epidermal growth factor receptor in living cells. <i>FEBS Letters</i> , <b>2004</b> , 559, 175-80  | 3.8 34  |
| 70 | The Role of Calmodulin in Tumor Cell Migration, Invasiveness, and Metastasis. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,  | 6.3 32  |
| 69 | The ErbB2/Neu/HER2 receptor is a new calmodulin-binding protein. <i>Biochemical Journal</i> , <b>2004</b> , 381, 257-66   | 32      |
| 68 | Differential response of the epidermal growth factor receptor tyrosine kinase activity to several plant and mammalian lectins. <i>Molecular and Cellular Biochemistry</i> , <b>1995</b> , 142, 117-24   | 4.2 32  |
| 67 | Kinetic properties of the purified Ca <sup>2+</sup> -translocating ATPase from human erythrocyte plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1986</b> , 854, 9-20   | 3.8 30  |
| 66 | Regulation of the ligand-dependent activation of the epidermal growth factor receptor by calmodulin. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 3273-81  | 5.4 28  |
| 65 | The adaptor Grb7 is a novel calmodulin-binding protein: functional implications of the interaction of calmodulin with Grb7. <i>Oncogene</i> , <b>2005</b> , 24, 4206-19   | 9.2 27  |
| 64 | Ca <sup>2+</sup> /Calmodulin and Apo-Calmodulin Both Bind to and Enhance the Tyrosine Kinase Activity of c-Src. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128783  | 3.7 27  |
| 63 | Src-family tyrosine kinases and the Ca signal. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2017</b> , 1864, 915-932   | 4.9 26  |
| 62 | Genomic organization and control of the grb7 gene family. <i>Current Genomics</i> , <b>2008</b> , 9, 60-8   | 2.6 24  |
| 61 | The epidermal growth factor receptor tyrosine kinase phosphorylates connexin32. <i>Molecular and Cellular Biochemistry</i> , <b>1998</b> , 187, 201-10  | 4.2 23  |
| 60 | Proteins with calmodulin-like domains: structures and functional roles. <i>Cellular and Molecular Life Sciences</i> , <b>2019</b> , 76, 2299-2328   | 10.3 22 |
| 59 | Nitric oxide-induced epidermal growth factor-dependent phosphorylations in A431 tumour cells. <i>FEBS Journal</i> , <b>2003</b> , 270, 1828-37  | 22      |
| 58 | Characterization of phospho-(tyrosine)-mimetic calmodulin mutants. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120798   | 3.7 20  |
| 57 | Proton countertransport by the reconstituted erythrocyte Ca <sup>2+</sup> -translocating ATPase: evidence using ionophoretic compounds. <i>Journal of Membrane Biology</i> , <b>1986</b> , 93, 249-58   | 2.3 20  |

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| 56 | Reconstitution of ion-motive transport ATPases in artificial lipid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1990</b> , 1017, 1-48   | 4.6 | 19 |
| 55 | Energy-dependent H <sup>+</sup> and K <sup>+</sup> translocation by the reconstituted yeast plasma membrane ATPase. <i>Canadian Journal of Biochemistry and Cell Biology</i> , <b>1984</b> , 62, 865-877  |     | 19 |
| 54 | Regulatory interaction between calmodulin and the epidermal growth factor receptor. <i>Annals of the New York Academy of Sciences</i> , <b>1995</b> , 766, 472-6  | 6.5 | 18 |
| 53 | The multifunctional role of phospho-calmodulin in pathophysiological processes. <i>Biochemical Journal</i> , <b>2018</b> , 475, 4011-4023   | 3.8 | 18 |
| 52 | Calpain I activates Ca <sup>2+</sup> transport by the reconstituted erythrocyte Ca <sup>2+</sup> pump. <i>Journal of Membrane Biology</i> , <b>1989</b> , 112, 233-45   | 2.3 | 17 |
| 51 | 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> , <b>2012</b> , 287, 18173-81 | 5.4 | 16 |
| 50 | Electrogenic proton ejection coupled to electron transport through the energy-conserving site 2 and K <sup>+</sup> /H <sup>+</sup> exchange in yeast mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1981</b> , 637, 124-9                  | 4.6 | 16 |
| 49 | A method for the purification of phospho(Tyr)calmodulin free of nonphosphorylated calmodulin. <i>Protein Expression and Purification</i> , <b>1999</b> , 16, 388-95   | 2   | 15 |
| 48 | Assimilatory nitrate reductase from <i>Acinetobacter calcoaceticus</i> . <i>Archives of Microbiology</i> , <b>1977</b> , 112, 127-32  | 3   | 15 |
| 47 | Ca signaling and Src-kinases-controlled cellular functions. <i>Archives of Biochemistry and Biophysics</i> , <b>2018</b> , 650, 59-74   | 4.1 | 15 |
| 46 | Down-regulation of the epidermal growth factor receptor by altering N-glycosylation: emerging role of $\beta$ 1,4-galactosyltransferases. <i>Anticancer Research</i> , <b>2012</b> , 32, 1565-72  | 2.3 | 15 |
| 45 | Targeting the calmodulin-regulated ErbB/Grb7 signaling axis in cancer therapy. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , <b>2013</b> , 16, 177-89  | 3.4 | 14 |
| 44 | The activating role of phospho-(Tyr)-calmodulin on the epidermal growth factor receptor. <i>Biochemical Journal</i> , <b>2015</b> , 472, 195-204  | 3.8 | 13 |
| 43 | 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> , <b>2012</b> , 26, 182-91   | 5   | 13 |
| 42 | Calmodulin regulates the translocation of Grb7 into the nucleus. <i>FEBS Letters</i> , <b>2012</b> , 586, 1533-9  | 3.8 | 13 |
| 41 | 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> , <b>1998</b> , 120, 57-65                         |     | 13 |
| 40 | Endogenous hyperphosphorylation in plasma membrane from an ascites hepatocarcinoma cell line. <i>Biochemistry and Cell Biology</i> , <b>1988</b> , 66, 1-12   | 3.6 | 13 |
| 39 | Respiration-coupled H <sup>+</sup> ejection by mitochondria. <i>Annals of the New York Academy of Sciences</i> , <b>1980</b> , 341, 585-92  | 6.5 | 13 |

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|----|---|-----|----|
| 38 | Nuclear magnetic resonance imaging of tumour growth and neovasculature performance in vivo reveals Grb7 as a novel antiangiogenic target. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 1059-69   | 4.4 | 12 |
| 37 | Phosphorylation of calmodulin by permeabilized fibroblasts overexpressing the human epidermal growth factor receptor. <i>Biological Chemistry</i> , <b>1997</b> , 378, 31-7   | 4.5 | 12 |
| 36 | Characterisation of tyrosine-phosphorylation-defective calmodulin mutants. <i>Protein Expression and Purification</i> , <b>2005</b> , 41, 384-92  | 2   | 12 |
| 35 | Deletion of the calmodulin-binding domain of Grb7 impairs cell attachment to the extracellular matrix and migration. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 436, 271-7  | 3.4 | 11 |
| 34 | Phosphorylation of connexin-32 by the epidermal growth factor receptor tyrosine kinase. <i>Annals of the New York Academy of Sciences</i> , <b>1995</b> , 766, 477-80   | 6.5 | 11 |
| 33 | 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> , <b>2014</b> , 9, e102523 | 3.7 | 11 |
| 32 | Nitric oxide changes distinct aspects of the glycophenotype of human neuroblastoma NB69 cells. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2011</b> , 24, 91-101   | 5   | 10 |
| 31 | 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> , <b>1997</b> , 170, 153-62                                  | 4.2 | 10 |
| 30 | 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> , <b>1994</b> , 22, 793-6              | 5.1 | 10 |
| 29 | Phosphorylation of calmodulin by plasma-membrane-associated protein kinase(s). <i>FEBS Journal</i> , <b>1995</b> , 234, 50-8  |     | 10 |
| 28 | The H <sup>+</sup> -ATPase of the yeast plasma membrane. <i>Annals of the New York Academy of Sciences</i> , <b>1982</b> , 402, 91-8  | 6.5 | 9  |
| 27 | O-GlcNAcylation of the human epidermal growth factor receptor. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 8196-204   | 3.9 | 8  |
| 26 | 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> , <b>2008</b> , 44, 353-66                      | 7.8 | 8  |
| 25 | Stoichiometry of H <sup>+</sup> ejection coupled to electron transport through site 2 in ascites tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , <b>1980</b> , 205, 210-6  | 4.1 | 8  |
| 24 | The Epidermal Growth Factor Receptor and the Calcium Signal <b>2000</b> , 287-303   |     | 8  |
| 23 | The adaptors Grb10 and Grb14 are calmodulin-binding proteins. <i>FEBS Letters</i> , <b>2017</b> , 591, 1176-1186  | 3.8 | 7  |
| 22 | Energy efficiency of different mechanistic models for potassium ion uptake in lower eukaryotic cells. <i>Folia Microbiologica</i> , <b>1988</b> , 33, 407-24  | 2.8 | 7  |
| 21 | The impact of calmodulin on the cell cycle analyzed in a novel human cellular genetic system. <i>Cell Calcium</i> , <b>2020</b> , 88, 102207  | 4   | 6  |

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|----|--|-----|---|
| 20 | Inhibition of the adenylation of liver plasma membrane-bound proteins by plant and mammalian lectins. <i>Biological Chemistry Hoppe-Seyler</i> , <b>1993</b> , 374, 133-41   |     | 6 |
| 19 | The effect of calmodulin on the interaction of carbodiimides with the purified human erythrocyte (Ca <sup>2+</sup> + Mg <sup>2+</sup> )-ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1988</b> , 945, 33-40 | 3.8 | 6 |
| 18 | Calcium-dependent inhibition of the erythrocyte Ca <sup>2+</sup> translocating ATPase by carbodiimides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1986</b> , 858, 188-94  | 3.8 | 6 |
| 17 | Calmodulin prevents the proteolysis of connexin32 by m-calpain. <i>Bioelectrochemistry</i> , <b>1997</b> , 42, 207-211   |     | 5 |
| 16 | Phosphorylation of liver plasma membrane-bound calmodulin. <i>Biochemistry and Cell Biology</i> , <b>1988</b> , 66, 922-7  | 3.6 | 5 |
| 15 | Molecular analysis of the erbB gene family calmodulin-binding and calmodulin-like domains in astrocytic gliomas. <i>International Journal of Oncology</i> , <b>2004</b> , 25, 1489-94  | 1   | 5 |
| 14 | Gap junction channels reconstituted in two closely apposed lipid bilayers. <i>Archives of Biochemistry and Biophysics</i> , <b>2005</b> , 436, 128-35  | 4.1 | 4 |
| 13 | H <sup>+</sup> stoichiometry of sites 1 + 2 of the respiratory chain of normal and tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , <b>1984</b> , 233, 417-27  | 4.1 | 4 |
| 12 | Grb7-derived calmodulin-binding peptides inhibit proliferation, migration and invasiveness of tumor cells while they enhance attachment to the substrate. <i>Heliyon</i> , <b>2020</b> , 6, e03922                             | 3.6 | 4 |
| 11 | The phosphorylation potentials generated by respiring Ehrlich ascites tumor mitochondria. <i>Archives of Biochemistry and Biophysics</i> , <b>1980</b> , 203, 473-82   | 4.1 | 3 |
| 10 | Calpain I activates Ca <sup>2+</sup> transport by the human erythrocyte plasma membrane calcium pump. <i>Advances in Experimental Medicine and Biology</i> , <b>1990</b> , 269, 175-80   | 3.6 | 3 |
| 9  | Translocation of ErbB receptors into the nucleus <b>2003</b> , 5, 381-389  |     | 2 |
| 8  | Calmodulin downregulation in conditional knockout HeLa cells inhibits cell migration. <i>Archives of Biochemistry and Biophysics</i> , <b>2021</b> , 697, 108680   | 4.1 | 2 |
| 7  | A premature termination of human epidermal growth factor receptor transcription in <i>Escherichia coli</i> . <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 830923   | 2.2 | 1 |
| 6  | Reconstitution of rat liver gap junctions into liposomes. <i>Biochemical Society Transactions</i> , <b>1994</b> , 22, 373S5.1  |     | 1 |
| 5  | 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> , <b>2021</b> , 236, 4997-5011                     | 7   | 1 |
| 4  | Partners of wild type Grb7 and a mutant lacking its calmodulin-binding domain. <i>Archives of Biochemistry and Biophysics</i> , <b>2020</b> , 687, 108386  | 4.1 | 0 |
| 3  | Molecular analysis of the erbB gene family calmodulin-binding and calmodulin-like domains in astrocytic gliomas <b>2004</b> , 25, 1489   |     |   |

2 The (Ca<sup>2+</sup> + Mg<sup>2+</sup>)-ATPase **1989**, 75-101

1 Ovariectomy regulates the production of prostanoids and the MAPK pathway in rat mesenteric arteries (LB675). *FASEB Journal*, **2014**, 28, LB675

0.9