Senena Corbalan

List of Publications by Year
in descending order

91	3,443	126708 33	149479 56
papers	citations	h-index	g-index

93	93	93	3244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ca2+ bridges the C2 membrane-binding domain of protein kinase CÎ± directly to phosphatidylserine. EMBO Journal, 1999, 18, 6329-6338.	3.5	323
2	Signaling through C2 domains: More than one lipid target. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1536-1547.	1.4	189
3	Identification of the Mitogen-Activated Protein Kinase Phosphorylation Sites on Human Sosl That Regulate Interaction with Grb2. Molecular and Cellular Biology, 1996, 16, 5674-5682.	1.1	158
4	The role of the PH domain in the signal-dependent membrane targeting of Sos. EMBO Journal, 1997, 16, 1351-1359.	3.5	118
5	Protein kinase C regulatory domains: The art of decoding many different signals in membranes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 633-654.	1.2	108
6	C2 Domains of Protein Kinase C Isoforms Î±, Î², and Î³:â€‰ Activation Parameters and Calcium Stoichiometries of the Membrane-Bound State. Biochemistry, 2002, 41, 11411-11424.	1.2	102
7	Structural and mechanistic insights into the association of PKCÎ±-C2 domain to PtdIns(4,5)P ₂. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6603-6607.	3.3	99
8	Structure of the C2 domain from novel protein kinase CÎµ. A membrane binding model for Ca2+-independent C2 domains. Journal of Molecular Biology, 2001, 311, 837-849.	2.0	97
9	A New Phosphatidylinositol 4,5-Bisphosphate-binding Site Located in the C2 Domain of Protein Kinase CÎ±. Journal of Biological Chemistry, 2003, 278, 4972-4980.	1.6	92
10	C2 Domain of Protein Kinase CÎ±:â€‰ Elucidation of the Membrane Docking Surface by Site-Directed Fluorescence and Spin Labeling. Biochemistry, 2003, 42, 1254-1265.	1.2	91
11	Regulation of Sos Activity by Intramolecular Interactions. Molecular and Cellular Biology, 1998, 18, 880-886.	1.1	90
12	The Simultaneous Production of Phosphatidic Acid and Diacylglycerol Is Essential for the Translocation of Protein Kinase CÎµ to the Plasma Membrane in RBL-2H3 Cells. Molecular Biology of the Cell, 2003, 14, 4885-4895.	0.9	81
13	Retinoic Acid Binds to the C2-Domain of Protein Kinase CÎ±â€. Biochemistry, 2003, 42, 8774-8779.	1.2	76
14	Additional Binding Sites for Anionic Phospholipids and Calcium Ions in the Crystal Structures of Complexes of the C2 Domain of Protein Kinase CÎ±. Journal of Molecular Biology, 2002, 320, 277-291.	2.0	74
15	Diacylglycerols, multivalent membrane modulators. Chemistry and Physics of Lipids, 2007, 148, 1-25.	1.5	72
16	Edelfosine Is Incorporated into Rafts and Alters Their Organization. Journal of Physical Chemistry B, 2008, 112, 11643-11654.	1.2	70
17	Structural insights into the Ca ²⁺ and PI(4,5)P ₂ binding modes of the C2 domains of rabphilin 3A and synaptotagmin 1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20503-20508.	3.3	64
18	Characterization of the Membrane Binding Mode of the C2 Domain of PKCÎµâ€. Biochemistry, 2003, 42, 11661-11668.	1.2	60

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19	Role of the Ca2+/Phosphatidylserine Binding Region of the C2 Domain in the Translocation of Protein Kinase CÎ± to the Plasma Membrane. Journal of Biological Chemistry, 2003, 278, 10282-10290.	1.6	60
20	Identification of the Phosphatidylserine Binding Site in the C2 Domain that Is Important for PKCÎ± Activation and in Vivo Cell Localization. Biochemistry, 2001, 40, 13898-13905.	1.2	59
21	The Solution Structure of the Pleckstrin Homology Domain of Human SOS1. Journal of Biological Chemistry, 1997, 272, 30340-30344.	1.6	58
22	Determination of the calcium-binding sites of the C2 domain of protein kinase CÎ± that are critical for its translocation to the plasma membrane. Biochemical Journal, 1999, 337, 513-521.	1.7	58
23	The C2 Domain of PKCÎ± Is a Ca2+-dependent PtdIns(4,5)P2 Sensing Domain: A New Insight into an Old Pathway. Journal of Molecular Biology, 2006, 362, 901-914.	2.0	57
24	The C2 Domains of Classical PKCs are Specific PtdIns(4,5)P2-sensing Domains with Different Affinities for Membrane Binding. Journal of Molecular Biology, 2007, 371, 608-621.	2.0	51
25	Curcumin Disorders 1,2-Dipalmitoyl-<i>sn-</i>glycero-3-phosphocholine Membranes and Favors the Formation of Nonlamellar Structures by 1,2-Dielaidoyl-<i>sn</i>-glycero-3-phosphoethanolamine. Journal of Physical Chemistry B, 2010, 114, 9778-9786.	1.2	45
26	The ATP-dependent Membrane Localization of Protein Kinase CÎ± Is Regulated by Ca2+ Influx and Phosphatidylinositol 4,5-Bisphosphate in Differentiated PC12 Cells. Molecular Biology of the Cell, 2005, 16, 2848-2861.	0.9	43
27	A comparative study of the activation of protein kinase C Î± by different diacylglycerol isomers. Biochemical Journal, 1999, 337, 387-395.	1.7	41
28	Calorimetric Study of the Interaction of the C2 Domains of Classical Protein Kinase C Isoenzymes with Ca2+and Phospholipidsâ€. Biochemistry, 2004, 43, 11727-11739.	1.2	41
29	Effect of Calcium and Phosphatidic Acid Binding on the C2 Domain of PKCÎ± As Studied by Fourier Transform Infrared Spectroscopyâ€. Biochemistry, 1999, 38, 9667-9675.	1.2	39
30	Role of the Lysine-rich Cluster of the C2 Domain in the Phosphatidylserine-dependent Activation of PKCÎ±. Journal of Molecular Biology, 2004, 335, 1117-1129.	2.0	38
31	Structural characterization of the Rabphilin-3Aâ€“SNAP25 interaction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5343-E5351.	3.3	37
32	Conformation of the C-Terminal Domain of the Pro-Apoptotic Protein Bax and Mutants and Its Interaction with Membranesâ€. Biochemistry, 2001, 40, 9983-9992.	1.2	36
33	The PtdIns(4,5)P2 Ligand Itself Influences the Localization of PKCÎ± in the Plasma Membrane of Intact Living Cells. Journal of Molecular Biology, 2008, 377, 1038-1052.	2.0	34
34	Structural Study of the C2 Domains of the Classical PKC Isoenzymes Using Infrared Spectroscopy and Two-Dimensional Infrared Correlation Spectroscopyâ€. Biochemistry, 2003, 42, 11669-11681.	1.2	33
35	Molecular Mechanisms of PKCÎ± localization and Activation by Arachidonic Acid. The C2 Domain also Plays a Role. Journal of Molecular Biology, 2006, 357, 1105-1120.	2.0	33
36	Extensive Proteolytic Digestion of the (Ca2++Mg2+)-ATPase from Sarcoplasmic Reticulum Leads to a Highly Hydrophobic Proteinaceous Residue with a Mainly .alpha.-Helical Structure. Biochemistry, 1994, 33, 8247-8254.	1.2	30

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37	A Comparison of the Membrane Binding Properties of C1B Domains of PKCÎ³, PKCÎ´, and PKCÉ›. Biophysical Journal, 2009, 96, 3638-3647.	0.2	28
38	Redox State of Coenzyme Q₁₀ Determines Its Membrane Localization. Journal of Physical Chemistry B, 2008, 112, 12696-12702.	1.2	27
39	Characterization of ruthenium red-binding sites of the Ca2+-ATPase from sarcoplasmic reticulum and their interaction with Ca2+-binding sites. Biochemical Journal, 1992, 287, 767-774.	1.7	25
40	The C2 domain of protein kinase CÎ± is directly involved in the diacylglycerol-dependent binding of the C1 domain to the membrane. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2000, 1487, 246-254.	1.2	25
41	The C2 domains of classical and novel PKCs as versatile decoders of membrane signals. BioFactors, 2010, 36, 1-7.	2.6	25
42	Determination of the calcium-binding sites of the C2 domain of protein kinase CÎ± that are critical for its translocation to the plasma membrane. Biochemical Journal, 1999, 337, 513.	1.7	23
43	An Infrared Spectroscopic Study of the Secondary Structure of Protein Kinase CÎ± and Its Thermal Denaturationâ€. Biochemistry, 2004, 43, 2332-2344.	1.2	23
44	The Structure of the C-Terminal Domain of the Pro-Apoptotic Protein Bak and Its Interaction with Model Membranes. Biophysical Journal, 2002, 82, 233-243.	0.2	22
45	The vertical location of Î±-tocopherol in phosphatidylcholine membranes is not altered as a function of the degree of unsaturation of the fatty acyl chains. Physical Chemistry Chemical Physics, 2017, 19, 6731-6742.	1.3	22
46	Structural characterization of the C2 domain of novel protein kinase CÎµ. FEBS Journal, 2001, 268, 1107-1117.	0.2	21
47	A comparative study of the activation of protein kinase C Î± by different diacylglycerol isomers. Biochemical Journal, 1999, 337, 387.	1.7	20
48	Study of the Secondary Structure of the C-Terminal Domain of the Antiapoptotic Protein Bcl-2 and Its Interaction with Model Membranesâ€,â€¡. Biochemistry, 2000, 39, 7744-7752.	1.2	20
49	The C2 domains of classical/conventional PKCs are specific PtdIns(4,5)<i>P</i>2-sensing domains. Biochemical Society Transactions, 2007, 35, 1046-1048.	1.6	20
50	Capsaicin Fluidifies the Membrane and Localizes Itself near the Lipidâ€"Water Interface. ACS Chemical Neuroscience, 2015, 6, 1741-1750.	1.7	20
51	Membrane docking of the C2 domain from protein kinase CÎ± as seen by polarized ATR-IR. The role of PIP2. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 684-695.	1.4	19
52	Intramolecular distances within the Ca2+-ATPase from sarcoplasmic reticulum as estimated through fluorescence energy transfer between probes. FEBS Journal, 1993, 217, 737-744.	0.2	18
53	Diacylglycerols as activators of protein kinase C (Review). Molecular Membrane Biology, 2004, 21, 339-349.	2.0	18
54	The interaction of the Bax C-terminal domain with negatively charged lipids modifies the secondary structure and changes its way of insertion into membranes. Journal of Structural Biology, 2008, 164, 146-152.	1.3	18

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55	Anticancer Agent Edelfosine Exhibits a High Affinity for Cholesterol and Disorganizes Liquid-Ordered Membrane Structures. Langmuir, 2018, 34, 8333-8346.	1.6	18
56	Retinoic Acid as a Modulator of the Activity of Protein Kinase CÎ±. Biochemistry, 2005, 44, 11353-11360.	1.2	17
57	Interaction of the C-terminal domain of Bcl-2 family proteins with model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2931-2939.	1.4	16
58	Classical protein kinases C are regulated by concerted interaction with lipids: the importance of phosphatidylinositol-4,5-bisphosphate. Biophysical Reviews, 2014, 6, 3-14.	1.5	16
59	Phenolic Group of Î±-Tocopherol Anchors at the Lipidâ€"Water Interface of Fully Saturated Membranes. Langmuir, 2018, 34, 3336-3348.	1.6	14
60	Modulation of the Membrane Orientation and Secondary Structure of the C-Terminal Domains of Bak and Bcl-2 by Lipidsâ€. Biochemistry, 2005, 44, 10796-10809.	1.2	13
61	Interaction of the C2 Domain from Protein Kinase CÎµ with Model Membranesâ€. Biochemistry, 2007, 46, 3183-3192.	1.2	13
62	Effects of the anti-neoplastic agent ET-18-OCH3 and some analogs on the biophysical properties of model membranes. International Journal of Pharmaceutics, 2006, 318, 28-40.	2.6	12
63	Phosphatidylinositol 4,5-Bisphosphate Decreases the Concentration of Ca2+, Phosphatidylserine and Diacylglycerol Required for Protein Kinase C Î± to Reach Maximum Activity. PLoS ONE, 2013, 8, e69041.	1.1	12
64	Both idebenone and idebenol are localized near the lipidâ€"water interface of the membrane and increase its fluidity. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1071-1081.	1.4	12
65	Correlation between the effect of the anti-neoplastic ether lipid 1-O-octadecyl-2-O-methyl-glycero-3-phosphocholine on the membrane and the activity of protein kinase CÎ±. FEBS Journal, 2001, 268, 6369-6378.	0.2	11
66	ATP Enhances Neuronal Differentiation of PC12 Cells by Activating PKCÎ± Interactions with Cytoskeletal Proteins. Journal of Proteome Research, 2011, 10, 529-540.	1.8	11
67	Curcumin modulates PKCÎ± activity by a membrane-dependent effect. Archives of Biochemistry and Biophysics, 2011, 513, 36-41.	1.4	11
68	The membrane binding kinetics of full-length PKCÎ± is determined by membrane lipid composition. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1434-1442.	1.2	11
69	Structural study of the catalytic domain of PKCzeta using infrared spectroscopy and two-dimensional infrared correlation spectroscopy. FEBS Journal, 2006, 273, 3273-3286.	2.2	10
70	The interaction of the Bax C-terminal domain with membranes is influenced by the presence of negatively charged phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1924-1932.	1.4	10
71	Activation of Protein Kinase C Î± by Lipid Mixtures Containing Different Proportions of Diacylglycerolsâ€. Biochemistry, 2001, 40, 15038-15046.	1.2	9
72	KIR+ CD8+ T Lymphocytes in Cancer Immunosurveillance and Patient Survival: Gene Expression Profiling. Cancers, 2020, 12, 2991.	1.7	9

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73	Phosphatidylinositol Monophosphates Regulate Optimal Vav1 Signaling Output. Cells, 2019, 8, 1649.	1.8	8
74	Location of N-cyclohexyl-N'-(4-dimethyl-amino-alpha-naphthyl)carbodiimide-binding site in sarcoplasmic reticulum Ca2+-transporting ATPase. FEBS Journal, 1998, 253, 339-344.	0.2	7
75	Interaction of Vitamin K₁ and Vitamin K₂ with Dimyristoylphosphatidylcholine and Their Location in the Membrane. Langmuir, 2020, 36, 1062-1073.	1.6	7
76	A comparative study of the effect of the antineoplastic ether lipid 1-O-octadecyl-2-O-methyl-glycero-3-phosphocholine and some homologous compounds on PKCÎ± and PKCÎ›. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1687, 110-119.	1.2	6
77	Crystal structure of the C-terminal four-helix bundle of the potassium channel KCa3.1. PLoS ONE, 2018, 13, e0199942.	1.1	6
78	The C1B domains of novel PKCÎµ and PKCÎ· have a higher membrane binding affinity than those of the also novel PKCÎ´ and PKCÎ¸. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1898-1909.	1.4	5
79	Phosphatidylinositol-4,5-Bisphosphate Enhances Anionic Lipid Demixing by the C2 Domain of PKCÎ±. PLoS ONE, 2014, 9, e95973.	1.1	5
80	A kinetic study of an unstable enzyme measured through coupling reactions. Application to the self-inactivation of detergent-solubilized Ca2+-ATPase from sarcoplasmic reticulum. BBA - Proteins and Proteomics, 1993, 1203, 45-52.	2.1	4
81	Structural aspects of the Ca2+-ATPase from sarcoplasmic reticulum. Biochemical Society Transactions, 1994, 22, 826-829.	1.6	4
82	Chemical modification of Ca2+-ATPase from sarcoplasmic reticulum with phenylglyoxal. Biochemical Society Transactions, 1994, 22, 381S-381S.	1.6	3
83	Structural Characterization of the C2 Domains of Classical Isozymes of Protein Kinase C and Novel Protein Kinase CÎµ by using Infrared Spectroscopy. Spectroscopy, 2003, 17, 399-416.	0.8	2
84	Membraneâ€Surface Anchoring of Charged Diacylglycerolâ€Lactones Correlates with Biological Activities. ChemBioChem, 2010, 11, 2003-2009.	1.3	2
85	Membrane docking mode of the C2 domain of PKCÎµ: An infrared spectroscopy and FRET study. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 552-560.	1.4	2
86	The binding of different model membranes with PKCÎµ C2 domain is not dependent on membrane curvature but affects the sequence of events during unfolding. Archives of Biochemistry and Biophysics, 2021, 705, 108910.	1.4	2
87	PKCÎµ controls the fusion of secretory vesicles in mast cells in a phosphatidic acid-dependent mode. International Journal of Biological Macromolecules, 2021, 185, 377-389.	3.6	2
88	Involvement of an arginyl residue in the nucleotide-binding site of Ca2+-ATPase from sarcoplasmic reticulum as seen by reaction with phenylglyoxal. Biochemical Journal, 1996, 318, 179-185.	1.7	1
89	Quartz crystal microbalance with dissipation monitoring and the real-time study of biological systems and macromolecules at interfaces. Biomedical Spectroscopy and Imaging, 2012, 1, 325-338.	1.2	1
90	Inside Cover: Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities (ChemBioChem 14/2010). ChemBioChem, 2010, 11, 1926-1926.	1.3	0

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91	X-ray diffraction and NMR data for the study of the location of idebenone and idebenol in model membranes. Data in Brief, 2016, 7, 981-989.	0.5	0