Ana J GarcÃ-a-SÃ¡ez

List of Publications by Year
in descending order

98 papers	9,491 citations	71102 41 h-index	40979 93 g-index
105 all docs	105 docs citations	105 times ranked	12943 citing authors

#	Article	IF	Citations
1	DRP1 interacts directly with BAX to induce its activation and apoptosis. EMBO Journal, 2022, 41, e108587.	7.8	59
2	Systematic Assessment of the Accuracy of Subunit Counting in Biomolecular Complexes Using Automated Single-Molecule Brightness Analysis. Journal of Physical Chemistry Letters, 2022, 13, 822-829.	4.6	6
3	The interplay between BAX and BAK tunes apoptotic pore growth to control mitochondrial-DNA-mediated inflammation. Molecular Cell, 2022, 82, 933-949.e9.	9.7	81
4	BCLâ€2â€family protein tBID can act as a BAXâ€like effector of apoptosis. EMBO Journal, 2022, 41, e108690.	7.8	74
5	Curcumin and NCLX inhibitors share anti-tumoral mechanisms in microsatellite-instability-driven colorectal cancer. Cellular and Molecular Life Sciences, 2022, 79, 284.	5.4	8
6	Ferroptotic pores induce Ca2+ fluxes and ESCRT-III activation to modulate cell death kinetics. Cell Death and Differentiation, 2021, 28, 1644-1657.	11.2	132
7	Mitochondrial outer membrane permeabilization at the single molecule level. Cellular and Molecular Life Sciences, 2021, 78, 3777-3790.	5.4	17
8	Mechanisms of mitochondrial cell death. Biochemical Society Transactions, 2021, 49, 663-674.	3.4	28
9	MLKL promotes cellular differentiation in myeloid leukemia by facilitating the release of G-CSF. Cell Death and Differentiation, 2021, 28, 3235-3250.	11.2	9
10	Techniques for studying membrane pores. Current Opinion in Structural Biology, 2021, 69, 108-116.	5.7	4
11	Force Mapping Study of Actinoporin Effect in Membranes Presenting Phase Domains. Toxins, 2021, 13, 669.	3.4	4
12	Apoptosis regulation at the mitochondria membrane level. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183716.	2.6	91
13	Dynein light chain binding determines complex formation and posttranslational stability of the Bcl-2 family members Bmf and Bim. Cell Death and Differentiation, 2020, 27, 434-450.	11.2	19
14	Mitochondrial residence of the apoptosis inducer BAX is more important than BAX oligomerization in promoting membrane permeabilization. Journal of Biological Chemistry, 2020, 295, 1623-1636.	3.4	40
15	Lipids glue BAK dimers together. Nature Structural and Molecular Biology, 2020, 27, 1003-1004.	8.2	2
16	The BCL-2 family saga. Nature Reviews Molecular Cell Biology, 2020, 21, 564-565.	37.0	4
17	Bcl-xL inhibits tBid and Bax via distinct mechanisms. Faraday Discussions, 2020, , .	3.2	5
18	Apoptotic stress induces Bax-dependent, caspase-independent redistribution of LINC complex nesprins. Cell Death Discovery, 2020, 6, 90.	4.7	14

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19	The Mysteries around the BCL-2 Family Member BOK. Biomolecules, 2020, 10, 1638.	4.0	15
20	Drp1 modulates mitochondrial stress responses to mitotic arrest. Cell Death and Differentiation, 2020, 27, 2620-2634.	11.2	18
21	A lipid perspective on regulated cell death. International Review of Cell and Molecular Biology, 2020, 351, 197-236.	3.2	19
22	Partners in Crime: The Interplay of Proteins and Membranes in Regulated Necrosis. International Journal of Molecular Sciences, 2020, 21, 2412.	4.1	23
23	TAT-RasGAP₃₁₇₋₃₂₆kills cells by targeting inner-leafletâ€“enriched phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31871-31881.	7.1	22
24	Pore formation in regulated cell death. EMBO Journal, 2020, 39, e105753.	7.8	114
25	MERLIN: a novel BRET-based proximity biosensor for studying mitochondriaâ€“ER contact sites. Life Science Alliance, 2020, 3, e201900600.	2.8	27
26	Quantitative analysis of super-resolved structures using ASAP. Nature Methods, 2019, 16, 711-714.	19.0	14
27	A new perspective on membrane-embedded Bax oligomers using DEER and bioresistant orthogonal spin labels. Scientific Reports, 2019, 9, 13013.	3.3	24
28	The Incomplete Puzzle of the BCL2 Proteins. Cells, 2019, 8, 1176.	4.1	27
29	MAVS â€induced mitochondrial membrane remodeling. FEBS Journal, 2019, 286, 1540-1542.	4.7	6
30	BFL1 modulates apoptosis at the membrane level through a bifunctional and multimodal mechanism showing key differences with BCLXL. Cell Death and Differentiation, 2019, 26, 1880-1894.	11.2	18
31	Single event visualization of unconventional secretion of FGF2. Journal of Cell Biology, 2019, 218, 683-699.	5.2	39
32	AFM to Study Pore-Forming Proteins. Methods in Molecular Biology, 2019, 1886, 191-202.	0.9	4
33	Quantification of the Interactions Between BCL-2 Proteins by Fluorescence Correlation Spectroscopy. Methods in Molecular Biology, 2019, 1877, 337-350.	0.9	2
34	Drp1 polymerization stabilizes curved tubular membranes similar to those of constricted mitochondria. Journal of Cell Science, 2018, 132, .	2.0	16
35	The mycotoxin phomoxanthone A disturbs the form and function of the inner mitochondrial membrane. Cell Death and Disease, 2018, 9, 286.	6.3	27
36	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036

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37	Bax retrotranslocation potentiates Bcl-xLâ€™s antiapoptotic activity and is essential for switch-like transitions between MOMP competency and resistance. Cell Death and Disease, 2018, 9, 430.	6.3	14
38	Bax, Bak and beyond â€” mitochondrial performance in apoptosis. FEBS Journal, 2018, 285, 416-431.	4.7	539
39	Bcl-2 proteins: Unraveling the details of a complex and dynamic network. Molecular and Cellular Oncology, 2018, 5, e1384880.	0.7	2
40	Scanning Fluorescence Correlation Spectroscopy for Quantification of the Dynamics and Interactions in Tube Organelles of Living Cells. ChemPhysChem, 2018, 19, 3273-3278.	2.1	4
41	Topology of active, membrane-embedded Bax in the context of a toroidal pore. Cell Death and Differentiation, 2018, 25, 1717-1731.	11.2	35
42	<scp>MIM</scp> through <scp>MOM</scp> : the awakening of Bax and Bak pores. EMBO Journal, 2018, 37, .	7.8	17
43	Early activation of <scp>CD</scp>95 is limited and localized to the cytotoxic synapse. FEBS Journal, 2018, 285, 2813-2827.	4.7	3
44	The membrane activity of BOK involves formation of large, stable toroidal pores and is promoted by cBID. FEBS Journal, 2017, 284, 711-724.	4.7	37
45	Determinants of BH3 Sequence Specificity for the Disruption of Bcl-xL/cBid Complexes in Membranes. ACS Chemical Biology, 2017, 12, 989-1000.	3.4	5
46	Apoptotic foci at mitochondria: in and around Bax pores. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160217.	4.0	45
47	Mechanical Aspects of Mitochondrial Alterations in Apoptosis. Biophysical Journal, 2017, 112, 1a-2a.	0.5	0
48	Necroptosis Execution Is Mediated by Plasma Membrane Nanopores Independent of Calcium. Cell Reports, 2017, 19, 175-187.	6.4	101
49	Necroptosis Execution is Mediated by Plasma Membrane Nanopores that are Independent of Calcium. Biophysical Journal, 2017, 112, 400a.	0.5	3
50	Bax and Bak Pores: Are We Closing the Circle?. Trends in Cell Biology, 2017, 27, 266-275.	7.9	154
51	Disrupting a key hydrophobic pair in the oligomerization interface of the actinoporins impairs their poreâ€forming activity. Protein Science, 2017, 26, 550-565.	7.6	25
52	Does Ceramide Form Channels? The Ceramide-Induced Membrane Permeabilization Mechanism. Biophysical Journal, 2017, 113, 860-868.	0.5	24
53	Quantitative interactome of a membrane Bcl-2 network identifies a hierarchy of complexes for apoptosis regulation. Nature Communications, 2017, 8, 73.	12.8	54
54	Pro-apoptotic cBid and Bax exhibit distinct membrane remodeling activities: An AFM study. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 17-27.	2.6	16

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55	Improving certainty in single molecule imaging. Current Opinion in Structural Biology, 2017, 46, 24-30.	5.7	4
56	Bax assembly into rings and arcs in apoptotic mitochondria is linked to membrane pores. EMBO Journal, 2016, 35, 389-401.	7.8	245
57	Pushing the size limit of de novo structure ensemble prediction guided by sparse SDSL-EPR restraints to 200 residues: The monomeric and homodimeric forms of BAX. Journal of Structural Biology, 2016, 195, 62-71.	2.8	14
58	Assembling the puzzle: Oligomerization of Î±-pore forming proteins in membranes. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 457-466.	2.6	63
59	Atomic Force Microscopy Imaging and Force Spectroscopy of Supported Lipid Bilayers. Journal of Visualized Experiments, 2015, , e52867.	0.3	26
60	Membrane Disintegration Caused by the Steroid Saponin Digitonin Is Related to the Presence of Cholesterol. Molecules, 2015, 20, 20146-20160.	3.8	57
61	Formation of Disulfide Bridges Drives Oligomerization, Membrane Pore Formation, and Translocation of Fibroblast Growth Factor 2 to Cell Surfaces. Journal of Biological Chemistry, 2015, 290, 8925-8937.	3.4	51
62	Toxicity of an Î±-Pore-forming Toxin Depends on the Assembly Mechanism on the Target Membrane as Revealed by Single Molecule Imaging. Journal of Biological Chemistry, 2015, 290, 4856-4865.	3.4	48
63	More Than a Pore: The Interplay of Pore-Forming Proteins and Lipid Membranes. Journal of Membrane Biology, 2015, 248, 545-561.	2.1	66
64	Differences in activity of actinoporins are related with the hydrophobicity of their N-terminus. Biochimie, 2015, 116, 70-78.	2.6	31
65	Microscopy of Model Membranes. Behavior Research Methods, 2015, 21, 63-97.	4.0	1
66	A Single Herpesvirus Protein Can Mediate Vesicle Formation in the Nuclear Envelope. Journal of Biological Chemistry, 2015, 290, 6962-6974.	3.4	70
67	Bax monomers form dimer units in the membrane that further self-assemble into multiple oligomeric species. Nature Communications, 2015, 6, 8042.	12.8	140
68	Mitochondrial alterations in apoptosis. Chemistry and Physics of Lipids, 2014, 181, 62-75.	3.2	142
69	Structural Model of Active Bax at the Membrane. Molecular Cell, 2014, 56, 496-505.	9.7	190
70	Dynamin-related Protein 1 (Drp1) Promotes Structural Intermediates of Membrane Division. Journal of Biological Chemistry, 2014, 289, 30645-30656.	3.4	58
71	Automated analysis of giant unilamellar vesicles using circular Hough transformation. Bioinformatics, 2014, 30, 1747-1754.	4.1	24
72	Membranes in motion: mitochondrial dynamics and their role in apoptosis. Biological Chemistry, 2014, 395, 297-311.	2.5	23

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73	New Biophysical Methods to Study the Membrane Activity of Bcl-2 Proteins. Methods in Molecular Biology, 2014, 1176, 191-207.	0.9	5
74	Cardiolipin Effects on Membrane Structure and Dynamics. Langmuir, 2013, 29, 15878-15887.	3.5	124
75	Proapoptotic Bax and Bak Proteins Form Stable Protein-permeable Pores of Tunable Size. Journal of Biological Chemistry, 2013, 288, 33241-33252.	3.4	127
76	Mechanistic Differences in the Membrane Activity of Bax and Bcl-xL Correlate with Their Opposing Roles in Apoptosis. Biophysical Journal, 2013, 104, 421-431.	0.5	74
77	Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P2)-dependent Oligomerization of Fibroblast Growth Factor 2 (FGF2) Triggers the Formation of a Lipidic Membrane Pore Implicated in Unconventional Secretion. Journal of Biological Chemistry, 2012, 287, 27659-27669.	3.4	96
78	Dynamic Interaction of cBid with Detergents, Liposomes and Mitochondria. PLoS ONE, 2012, 7, e35910.	2.5	28
79	Oligomerization and Pore Formation by Equinatoxin II Inhibit Endocytosis and Lead to Plasma Membrane Reorganization. Journal of Biological Chemistry, 2011, 286, 37768-37777.	3.4	52
80	Quantification of Protein-Protein Interactions within Membranes by Fluorescence Correlation Spectroscopy. Current Protein and Peptide Science, 2011, 12, 691-698.	1.4	8
81	Role of Membrane Lipids for the Activity of Pore Forming Peptides and Proteins. Advances in Experimental Medicine and Biology, 2010, 677, 31-55.	1.6	23
82	Stability of lipid domains. FEBS Letters, 2010, 584, 1653-1658.	2.8	49
83	Confocal microscopy of giant vesicles supports the absence of HIVâ€1 neutralizing 2F5 antibody reactivity to plasma membrane phospholipids. FEBS Letters, 2010, 584, 1591-1596.	2.8	19
84	Yeast Lipids Can Phase-separate into Micrometer-scale Membrane Domains. Journal of Biological Chemistry, 2010, 285, 30224-30232.	3.4	96
85	Pores Formed by BaxÎ±5 Relax to a Smaller Size and Keep at Equilibrium. Biophysical Journal, 2010, 99, 2917-2925.	0.5	77
86	All-or-None versus Graded: Single-Vesicle Analysis Reveals Lipid Composition Effects on Membrane Permeabilization. Biophysical Journal, 2010, 99, 3619-3628.	0.5	71
87	Surface analysis of membrane dynamics. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 766-776.	2.6	40
88	Permeabilization of the Outer Mitochondrial Membrane by Bcl-2 Proteins. Advances in Experimental Medicine and Biology, 2010, 677, 91-105.	1.6	30
89	Detergent-activated BAX Protein Is a Monomer. Journal of Biological Chemistry, 2009, 284, 23935-23946.	3.4	26
90	Membrane promotes tBID interaction with BCLXL. Nature Structural and Molecular Biology, 2009, 16, 1178-1185.	8.2	116

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91	Equinatoxin II Permeabilizing Activity Depends on the Presence of Sphingomyelin and Lipid Phase Coexistence. Biophysical Journal, 2008, 95, 691-698.	0.5	125
92	Fluorescence correlation spectroscopy for the study of membrane dynamics and protein/lipid interactions. Methods, 2008, 46, 116-122.	3.8	86
93	Effect of Line Tension on the Lateral Organization of Lipid Membranes. Journal of Biological Chemistry, 2007, 282, 33537-33544.	3.4	352
94	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. Biophysical Journal, 2007, 93, 103-112.	0.5	128
95	Single molecule techniques for the study of membrane proteins. Applied Microbiology and Biotechnology, 2007, 76, 257-266.	3.6	46
96	Peptides corresponding to helices 5 and 6 of Bax can independently form large lipid pores. FEBS Journal, 2006, 273, 971-981.	4.7	97
97	Peptides Derived from Apoptotic Bax and Bid Reproduce the Poration Activity of the Parent Full-Length Proteins. Biophysical Journal, 2005, 88, 3976-3990.	0.5	91
98	Membrane-Insertion Fragments of Bcl-xL, Bax, and Bidâ€. Biochemistry, 2004, 43, 10930-10943.	2.5	121