

Ana J GarcÃ-a-SÃ;ez

List of Publications by Year in descending order

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98
papers

9,491
citations

71102

41
h-index

40979

93
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105
all docs

105
docs citations

105
times ranked

12943
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	11.2	4,036
2	Bax, Bak and beyond – mitochondrial performance in apoptosis. <i>FEBS Journal</i> , 2018, 285, 416-431.	4.7	539
3	Effect of Line Tension on the Lateral Organization of Lipid Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 33537-33544.	3.4	352
4	Bax assembly into rings and arcs in apoptotic mitochondria is linked to membrane pores. <i>EMBO Journal</i> , 2016, 35, 389-401.	7.8	245
5	Structural Model of Active Bax at the Membrane. <i>Molecular Cell</i> , 2014, 56, 496-505.	9.7	190
6	Bax and Bak Pores: Are We Closing the Circle?. <i>Trends in Cell Biology</i> , 2017, 27, 266-275.	7.9	154
7	Mitochondrial alterations in apoptosis. <i>Chemistry and Physics of Lipids</i> , 2014, 181, 62-75.	3.2	142
8	Bax monomers form dimer units in the membrane that further self-assemble into multiple oligomeric species. <i>Nature Communications</i> , 2015, 6, 8042.	12.8	140
9	Ferroptotic pores induce Ca ²⁺ fluxes and ESCRT-III activation to modulate cell death kinetics. <i>Cell Death and Differentiation</i> , 2021, 28, 1644-1657.	11.2	132
10	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. <i>Biophysical Journal</i> , 2007, 93, 103-112.	0.5	128
11	Proapoptotic Bax and Bak Proteins Form Stable Protein-permeable Pores of Tunable Size. <i>Journal of Biological Chemistry</i> , 2013, 288, 33241-33252.	3.4	127
12	Equinatoxin II Permeabilizing Activity Depends on the Presence of Sphingomyelin and Lipid Phase Coexistence. <i>Biophysical Journal</i> , 2008, 95, 691-698.	0.5	125
13	Cardiolipin Effects on Membrane Structure and Dynamics. <i>Langmuir</i> , 2013, 29, 15878-15887.	3.5	124
14	Membrane-Insertion Fragments of Bcl-xL, Bax, and Bid. <i>Biochemistry</i> , 2004, 43, 10930-10943.	2.5	121
15	Membrane promotes tBID interaction with BCLXL. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1178-1185.	8.2	116
16	Pore formation in regulated cell death. <i>EMBO Journal</i> , 2020, 39, e105753.	7.8	114
17	Necroptosis Execution Is Mediated by Plasma Membrane Nanopores Independent of Calcium. <i>Cell Reports</i> , 2017, 19, 175-187.	6.4	101
18	Peptides corresponding to helices 5 and 6 of Bax can independently form large lipid pores. <i>FEBS Journal</i> , 2006, 273, 971-981.	4.7	97

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19	Yeast Lipids Can Phase-separate into Micrometer-scale Membrane Domains. <i>Journal of Biological Chemistry</i> , 2010, 285, 30224-30232.	3.4	96
20	Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P ₂)-dependent Oligomerization of Fibroblast Growth Factor 2 (FGF2) Triggers the Formation of a Lipidic Membrane Pore Implicated in Unconventional Secretion. <i>Journal of Biological Chemistry</i> , 2012, 287, 27659-27669.	3.4	96
21	Peptides Derived from Apoptotic Bax and Bid Reproduce the Poration Activity of the Parent Full-Length Proteins. <i>Biophysical Journal</i> , 2005, 88, 3976-3990.	0.5	91
22	Apoptosis regulation at the mitochondria membrane level. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183716.	2.6	91
23	Fluorescence correlation spectroscopy for the study of membrane dynamics and protein/lipid interactions. <i>Methods</i> , 2008, 46, 116-122.	3.8	86
24	The interplay between BAX and BAK tunes apoptotic pore growth to control mitochondrial-DNA-mediated inflammation. <i>Molecular Cell</i> , 2022, 82, 933-949.e9.	9.7	81
25	Pores Formed by Bax±5 Relax to a Smaller Size and Keep at Equilibrium. <i>Biophysical Journal</i> , 2010, 99, 2917-2925.	0.5	77
26	Mechanistic Differences in the Membrane Activity of Bax and Bcl-xL Correlate with Their Opposing Roles in Apoptosis. <i>Biophysical Journal</i> , 2013, 104, 421-431.	0.5	74
27	BCL-2 family protein tBID can act as a BAX-like effector of apoptosis. <i>EMBO Journal</i> , 2022, 41, e108690.	7.8	74
28	All-or-None versus Graded: Single-Vesicle Analysis Reveals Lipid Composition Effects on Membrane Permeabilization. <i>Biophysical Journal</i> , 2010, 99, 3619-3628.	0.5	71
29	A Single Herpesvirus Protein Can Mediate Vesicle Formation in the Nuclear Envelope. <i>Journal of Biological Chemistry</i> , 2015, 290, 6962-6974.	3.4	70
30	More Than a Pore: The Interplay of Pore-Forming Proteins and Lipid Membranes. <i>Journal of Membrane Biology</i> , 2015, 248, 545-561.	2.1	66
31	Assembling the puzzle: Oligomerization of ±-pore forming proteins in membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 457-466.	2.6	63
32	DRP1 interacts directly with BAX to induce its activation and apoptosis. <i>EMBO Journal</i> , 2022, 41, e108587.	7.8	59
33	Dynamamin-related Protein 1 (Drp1) Promotes Structural Intermediates of Membrane Division. <i>Journal of Biological Chemistry</i> , 2014, 289, 30645-30656.	3.4	58
34	Membrane Disintegration Caused by the Steroid Saponin Digitonin Is Related to the Presence of Cholesterol. <i>Molecules</i> , 2015, 20, 20146-20160.	3.8	57
35	Quantitative interactome of a membrane Bcl-2 network identifies a hierarchy of complexes for apoptosis regulation. <i>Nature Communications</i> , 2017, 8, 73.	12.8	54
36	Oligomerization and Pore Formation by Equinatoxin II Inhibit Endocytosis and Lead to Plasma Membrane Reorganization. <i>Journal of Biological Chemistry</i> , 2011, 286, 37768-37777.	3.4	52

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37	Formation of Disulfide Bridges Drives Oligomerization, Membrane Pore Formation, and Translocation of Fibroblast Growth Factor 2 to Cell Surfaces. <i>Journal of Biological Chemistry</i> , 2015, 290, 8925-8937.	3.4	51
38	Stability of lipid domains. <i>FEBS Letters</i> , 2010, 584, 1653-1658.	2.8	49
39	Toxicity of an $\hat{\pm}$ -Pore-forming Toxin Depends on the Assembly Mechanism on the Target Membrane as Revealed by Single Molecule Imaging. <i>Journal of Biological Chemistry</i> , 2015, 290, 4856-4865.	3.4	48
40	Single molecule techniques for the study of membrane proteins. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 257-266.	3.6	46
41	Apoptotic foci at mitochondria: in and around Bax pores. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160217.	4.0	45
42	Surface analysis of membrane dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 766-776.	2.6	40
43	Mitochondrial residence of the apoptosis inducer BAX is more important than BAX oligomerization in promoting membrane permeabilization. <i>Journal of Biological Chemistry</i> , 2020, 295, 1623-1636.	3.4	40
44	Single event visualization of unconventional secretion of FGF2. <i>Journal of Cell Biology</i> , 2019, 218, 683-699.	5.2	39
45	The membrane activity of BOK involves formation of large, stable toroidal pores and is promoted by cBID. <i>FEBS Journal</i> , 2017, 284, 711-724.	4.7	37
46	Topology of active, membrane-embedded Bax in the context of a toroidal pore. <i>Cell Death and Differentiation</i> , 2018, 25, 1717-1731.	11.2	35
47	Differences in activity of actinoporins are related with the hydrophobicity of their N-terminus. <i>Biochimie</i> , 2015, 116, 70-78.	2.6	31
48	Permeabilization of the Outer Mitochondrial Membrane by Bcl-2 Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2010, 677, 91-105.	1.6	30
49	Mechanisms of mitochondrial cell death. <i>Biochemical Society Transactions</i> , 2021, 49, 663-674.	3.4	28
50	Dynamic Interaction of cBid with Detergents, Liposomes and Mitochondria. <i>PLoS ONE</i> , 2012, 7, e35910.	2.5	28
51	The mycotoxin phomoxanthone A disturbs the form and function of the inner mitochondrial membrane. <i>Cell Death and Disease</i> , 2018, 9, 286.	6.3	27
52	The Incomplete Puzzle of the BCL2 Proteins. <i>Cells</i> , 2019, 8, 1176.	4.1	27
53	MERLIN: a novel BRET-based proximity biosensor for studying mitochondria-ER contact sites. <i>Life Science Alliance</i> , 2020, 3, e201900600.	2.8	27
54	Detergent-activated BAX Protein Is a Monomer. <i>Journal of Biological Chemistry</i> , 2009, 284, 23935-23946.	3.4	26

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55	Atomic Force Microscopy Imaging and Force Spectroscopy of Supported Lipid Bilayers. <i>Journal of Visualized Experiments</i> , 2015, , e52867.	0.3	26
56	Disrupting a key hydrophobic pair in the oligomerization interface of the actinoporins impairs their pore-forming activity. <i>Protein Science</i> , 2017, 26, 550-565.	7.6	25
57	Automated analysis of giant unilamellar vesicles using circular Hough transformation. <i>Bioinformatics</i> , 2014, 30, 1747-1754.	4.1	24
58	Does Ceramide Form Channels? The Ceramide-Induced Membrane Permeabilization Mechanism. <i>Biophysical Journal</i> , 2017, 113, 860-868.	0.5	24
59	A new perspective on membrane-embedded Bax oligomers using DEER and bioresistant orthogonal spin labels. <i>Scientific Reports</i> , 2019, 9, 13013.	3.3	24
60	Role of Membrane Lipids for the Activity of Pore Forming Peptides and Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2010, 677, 31-55.	1.6	23
61	Membranes in motion: mitochondrial dynamics and their role in apoptosis. <i>Biological Chemistry</i> , 2014, 395, 297-311.	2.5	23
62	Partners in Crime: The Interplay of Proteins and Membranes in Regulated Necrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2412.	4.1	23
63	TAT-RasGAP ³¹⁷⁻³²⁶ kills cells by targeting inner-leaflet-enriched phospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31871-31881.	7.1	22
64	Confocal microscopy of giant vesicles supports the absence of HIV-1 neutralizing 2F5 antibody reactivity to plasma membrane phospholipids. <i>FEBS Letters</i> , 2010, 584, 1591-1596.	2.8	19
65	Dynein light chain binding determines complex formation and posttranslational stability of the Bcl-2 family members Bmf and Bim. <i>Cell Death and Differentiation</i> , 2020, 27, 434-450.	11.2	19
66	A lipid perspective on regulated cell death. <i>International Review of Cell and Molecular Biology</i> , 2020, 351, 197-236.	3.2	19
67	BFL1 modulates apoptosis at the membrane level through a bifunctional and multimodal mechanism showing key differences with BCLXL. <i>Cell Death and Differentiation</i> , 2019, 26, 1880-1894.	11.2	18
68	Drp1 modulates mitochondrial stress responses to mitotic arrest. <i>Cell Death and Differentiation</i> , 2020, 27, 2620-2634.	11.2	18
69	MIM through MOM : the awakening of Bax and Bak pores. <i>EMBO Journal</i> , 2018, 37, .	7.8	17
70	Mitochondrial outer membrane permeabilization at the single molecule level. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3777-3790.	5.4	17
71	Pro-apoptotic cBid and Bax exhibit distinct membrane remodeling activities: An AFM study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 17-27.	2.6	16
72	Drp1 polymerization stabilizes curved tubular membranes similar to those of constricted mitochondria. <i>Journal of Cell Science</i> , 2018, 132, .	2.0	16

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73	The Mysteries around the BCL-2 Family Member BOK. <i>Biomolecules</i> , 2020, 10, 1638.	4.0	15
74	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. <i>Journal of Structural Biology</i> , 2016, 195, 62-71.	2.8	14
75	Bax retrotranslocation potentiates Bcl-xL's antiapoptotic activity and is essential for switch-like transitions between MOMP competency and resistance. <i>Cell Death and Disease</i> , 2018, 9, 430.	6.3	14
76	Quantitative analysis of super-resolved structures using ASAP. <i>Nature Methods</i> , 2019, 16, 711-714.	19.0	14
77	Apoptotic stress induces Bax-dependent, caspase-independent redistribution of LINC complex nesprins. <i>Cell Death Discovery</i> , 2020, 6, 90.	4.7	14
78	MLKL promotes cellular differentiation in myeloid leukemia by facilitating the release of G-CSF. <i>Cell Death and Differentiation</i> , 2021, 28, 3235-3250.	11.2	9
79	Quantification of Protein-Protein Interactions within Membranes by Fluorescence Correlation Spectroscopy. <i>Current Protein and Peptide Science</i> , 2011, 12, 691-698.	1.4	8
80	Curcumin and NCLX inhibitors share anti-tumoral mechanisms in microsatellite-instability-driven colorectal cancer. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 284.	5.4	8
81	MAVS induced mitochondrial membrane remodeling. <i>FEBS Journal</i> , 2019, 286, 1540-1542.	4.7	6
82	Systematic Assessment of the Accuracy of Subunit Counting in Biomolecular Complexes Using Automated Single-Molecule Brightness Analysis. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 822-829.	4.6	6
83	New Biophysical Methods to Study the Membrane Activity of Bcl-2 Proteins. <i>Methods in Molecular Biology</i> , 2014, 1176, 191-207.	0.9	5
84	Determinants of BH3 Sequence Specificity for the Disruption of Bcl-xL/cBid Complexes in Membranes. <i>ACS Chemical Biology</i> , 2017, 12, 989-1000.	3.4	5
85	Bcl-xL inhibits tBid and Bax via distinct mechanisms. <i>Faraday Discussions</i> , 2020, , .	3.2	5
86	Scanning Fluorescence Correlation Spectroscopy for Quantification of the Dynamics and Interactions in Tube Organelles of Living Cells. <i>ChemPhysChem</i> , 2018, 19, 3273-3278.	2.1	4
87	AFM to Study Pore-Forming Proteins. <i>Methods in Molecular Biology</i> , 2019, 1886, 191-202.	0.9	4
88	The BCL-2 family saga. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 564-565.	37.0	4
89	Techniques for studying membrane pores. <i>Current Opinion in Structural Biology</i> , 2021, 69, 108-116.	5.7	4
90	Force Mapping Study of Actinoporin Effect in Membranes Presenting Phase Domains. <i>Toxins</i> , 2021, 13, 669.	3.4	4

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91	Improving certainty in single molecule imaging. <i>Current Opinion in Structural Biology</i> , 2017, 46, 24-30.	5.7	4
92	Necroptosis Execution is Mediated by Plasma Membrane Nanopores that are Independent of Calcium. <i>Biophysical Journal</i> , 2017, 112, 400a.	0.5	3
93	Early activation of $\text{CD}95$ is limited and localized to the cytotoxic synapse. <i>FEBS Journal</i> , 2018, 285, 2813-2827.	4.7	3
94	Bcl-2 proteins: Unraveling the details of a complex and dynamic network. <i>Molecular and Cellular Oncology</i> , 2018, 5, e1384880.	0.7	2
95	Quantification of the Interactions Between BCL-2 Proteins by Fluorescence Correlation Spectroscopy. <i>Methods in Molecular Biology</i> , 2019, 1877, 337-350.	0.9	2
96	Lipids glue BAK dimers together. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 1003-1004.	8.2	2
97	Microscopy of Model Membranes. <i>Behavior Research Methods</i> , 2015, 21, 63-97.	4.0	1
98	Mechanical Aspects of Mitochondrial Alterations in Apoptosis. <i>Biophysical Journal</i> , 2017, 112, 1a-2a.	0.5	0