

Peter E Czabotar

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93 papers	12,792 citations	39 h-index	103 g-index
103 ext. papers	15,563 ext. citations	12.2 avg, IF	6.26 L-index

#	Paper	IF	Citations
93	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018 , 25, 486-541	12.7	2160
92	Control of apoptosis by the BCL-2 protein family: implications for physiology and therapy. <i>Nature Reviews Molecular Cell Biology</i> , 2014 , 15, 49-63	48.7	1927
91	The BH3 mimetic ABT-737 targets selective Bcl-2 proteins and efficiently induces apoptosis via Bak/Bax if Mcl-1 is neutralized. <i>Cancer Cell</i> , 2006 , 10, 389-99	24.3	1049
90	Apoptosis initiated when BH3 ligands engage multiple Bcl-2 homologs, not Bax or Bak. <i>Science</i> , 2007 , 315, 856-9	33.3	937
89	The pseudokinase MLKL mediates necroptosis via a molecular switch mechanism. <i>Immunity</i> , 2013 , 39, 443-53	32.3	717
88	BCL-2 family antagonists for cancer therapy. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 989-1000	64.1	474
87	Bax crystal structures reveal how BH3 domains activate Bax and nucleate its oligomerization to induce apoptosis. <i>Cell</i> , 2013 , 152, 519-31	56.2	402
86	Structural insights into the degradation of Mcl-1 induced by BH3 domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6217-22	11.5	364
85	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15072-7	11.5	357
84	Molecular biology of Bax and Bak activation and action. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 521-31	4.9	335
83	Structure-guided design of a selective BCL-X(L) inhibitor. <i>Nature Chemical Biology</i> , 2013 , 9, 390-7	11.7	277
82	The dendritic cell receptor Clec9A binds damaged cells via exposed actin filaments. <i>Immunity</i> , 2012 , 36, 646-57	32.3	224
81	Discovery of a Potent and Selective BCL-XL Inhibitor with in Vivo Activity. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 1088-93	4.3	192
80	Acquisition of the Recurrent Gly101Val Mutation in BCL2 Confers Resistance to Venetoclax in Patients with Progressive Chronic Lymphocytic Leukemia. <i>Cancer Discovery</i> , 2019 , 9, 342-353	24.4	188
79	Bak activation for apoptosis involves oligomerization of dimers via their alpha6 helices. <i>Molecular Cell</i> , 2009 , 36, 696-703	17.6	174
78	Mechanism and inhibition of the papain-like protease, PLpro, of SARS-CoV-2. <i>EMBO Journal</i> , 2020 , 39, e106275	13	164
77	A novel BH3 ligand that selectively targets Mcl-1 reveals that apoptosis can proceed without Mcl-1 degradation. <i>Journal of Cell Biology</i> , 2008 , 180, 341-55	7.3	146

76	The BCL-2 family of proteins and mitochondrial outer membrane permeabilisation. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 72, 152-162	7.5	142
75	High-resolution structural characterization of a helical alpha/beta-peptide foldamer bound to the anti-apoptotic protein Bcl-xL. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4318-22	16.4	133
74	Stabilizing the pro-apoptotic BimBH3 helix (BimSAHB) does not necessarily enhance affinity or biological activity. <i>ACS Chemical Biology</i> , 2013 , 8, 297-302	4.9	109
73	Bak core and latch domains separate during activation, and freed core domains form symmetric homodimers. <i>Molecular Cell</i> , 2014 , 55, 938-946	17.6	107
72	Embryogenesis and Adult Life in the Absence of Intrinsic Apoptosis Effectors BAX, BAK, and BOK. <i>Cell</i> , 2018 , 173, 1217-1230.e17	56.2	94
71	Structural plasticity underpins promiscuous binding of the prosurvival protein A1. <i>Structure</i> , 2008 , 16, 818-29	5.2	92
70	Apoptotic pore formation is associated with in-plane insertion of Bak or Bax central helices into the mitochondrial outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4076-85	11.5	87
69	The Structural Basis of Necroptotic Cell Death Signaling. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 53-63	10.3	87
68	Conformational switching of the pseudokinase domain promotes human MLKL tetramerization and cell death by necroptosis. <i>Nature Communications</i> , 2018 , 9, 2422	17.4	85
67	Structures of BCL-2 in complex with venetoclax reveal the molecular basis of resistance mutations. <i>Nature Communications</i> , 2019 , 10, 2385	17.4	84
66	Mutation to Bax beyond the BH3 domain disrupts interactions with pro-survival proteins and promotes apoptosis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 7123-31	5.4	82
65	Insights into the evolution of divergent nucleotide-binding mechanisms among pseudokinases revealed by crystal structures of human and mouse MLKL. <i>Biochemical Journal</i> , 2014 , 457, 369-77	3.8	79
64	Conformational changes in Bcl-2 pro-survival proteins determine their capacity to bind ligands. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30508-17	5.4	74
63	Structural basis for plasmepsin V inhibition that blocks export of malaria proteins to human erythrocytes. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 590-6	17.6	64
62	Genome-wide binding and mechanistic analyses of Smchd1-mediated epigenetic regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3535-44	11.5	63
61	Crystal structure of the entire ectodomain of gp130: insights into the molecular assembly of the tall cytokine receptor complexes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21214-8	5.4	61
60	Quinazoline sulfonamides as dual binders of the proteins B-cell lymphoma 2 and B-cell lymphoma extra long with potent proapoptotic cell-based activity. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1914-26	8.3	55
59	Multiple BCL2 mutations cooccurring with Gly101Val emerge in chronic lymphocytic leukemia progression on venetoclax. <i>Blood</i> , 2020 , 135, 773-777	2.2	55

58	Discovery of potent and selective benzothiazole hydrazone inhibitors of Bcl-XL. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 5514-40	8.3	50
57	The brace helices of MLKL mediate interdomain communication and oligomerisation to regulate cell death by necroptosis. <i>Cell Death and Differentiation</i> , 2018 , 25, 1567-1580	12.7	46
56	Multiple Plasmodium falciparum Merozoite Surface Protein 1 Complexes Mediate Merozoite Binding to Human Erythrocytes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7703-15	5.4	46
55	A missense mutation in the MLKL brace region promotes lethal neonatal inflammation and hematopoietic dysfunction. <i>Nature Communications</i> , 2020 , 11, 3150	17.4	41
54	Structure of Plasmodium falciparum Rh5-CyRPA-Ripr invasion complex. <i>Nature</i> , 2019 , 565, 118-121	50.4	39
53	BAX, BAK, and BOK: A Coming of Age for the BCL-2 Family Effector Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020 , 12,	10.2	38
52	CD52 glycan binds the proinflammatory B box of HMGB1 to engage the Siglec-10 receptor and suppress human T cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7783-7788	11.5	37
51	Structure-Guided Rescaffolding of Selective Antagonists of BCL-XL. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 662-7	4.3	36
50	The merozoite surface protein 1 complex is a platform for binding to human erythrocytes by Plasmodium falciparum. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25655-69	5.4	36
49	Parkin inhibits BAK and BAX apoptotic function by distinct mechanisms during mitophagy. <i>EMBO Journal</i> , 2019 , 38,	13	36
48	Autoinflammatory mutation in NLRC4 reveals a leucine-rich repeat (LRR)-LRR oligomerization interface. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 142, 1956-1967.e6	11.5	36
47	Identification of MLKL membrane translocation as a checkpoint in necroptotic cell death using Monobodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8468-8475	11.5	34
46	Conversion of Bim-BH3 from Activator to Inhibitor of Bak through Structure-Based Design. <i>Molecular Cell</i> , 2017 , 68, 659-672.e9	17.6	34
45	De-novo designed library of benzoylureas as inhibitors of BCL-XL: synthesis, structural and biochemical characterization. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 1323-43	8.3	31
44	Distinct pseudokinase domain conformations underlie divergent activation mechanisms among vertebrate MLKL orthologues. <i>Nature Communications</i> , 2020 , 11, 3060	17.4	30
43	Bcl-2 family proteins as therapeutic targets. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3132-48	3.3	30
42	Studies of structural changes in the M2 proton channel of influenza A virus by tryptophan fluorescence. <i>Virus Research</i> , 2004 , 99, 57-61	6.4	29
41	Physiological restraint of Bak by Bcl-xL is essential for cell survival. <i>Genes and Development</i> , 2016 , 30, 1240-50	12.6	29

40	Insights into Duffy binding-like domains through the crystal structure and function of the merozoite surface protein MSPDBL2 from <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 32922-39	5.4	28
39	The regulation of necroptosis by post-translational modifications. <i>Cell Death and Differentiation</i> , 2021 , 28, 861-883	12.7	27
38	Structural, kinetic and computational investigation of <i>Vitis vinifera</i> DHDPS reveals new insight into the mechanism of lysine-mediated allosteric inhibition. <i>Plant Molecular Biology</i> , 2013 , 81, 431-46	4.6	26
37	Characterization of a novel venetoclax resistance mutation (BCL2 Phe104Ile) observed in follicular lymphoma. <i>British Journal of Haematology</i> , 2019 , 186, e188-e191	4.5	24
36	Further insights into the effects of pre-organizing the BimBH3 helix. <i>ACS Chemical Biology</i> , 2014 , 9, 838-9	4.9	24
35	Cytosolic Bax: does it require binding proteins to keep its pro-apoptotic activity in check?. <i>Journal of Biological Chemistry</i> , 2012 , 287, 9112-27	5.4	24
34	BAK core dimers bind lipids and can be bridged by them. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1024-1031	17.6	23
33	Ensemble Properties of Bax Determine Its Function. <i>Structure</i> , 2018 , 26, 1346-1359.e5	5.2	22
32	Conformational interconversion of MLKL and disengagement from RIPK3 precede cell death by necroptosis. <i>Nature Communications</i> , 2021 , 12, 2211	17.4	19
31	Neutralising antibodies block the function of Rh5/Ripr/CyRPA complex during invasion of <i>Plasmodium falciparum</i> into human erythrocytes. <i>Cellular Microbiology</i> , 2019 , 21, e13030	3.9	18
30	Transmembrane Complexes of DAP12 Crystallized in Lipid Membranes Provide Insights into Control of Oligomerization in Immunoreceptor Assembly. <i>Cell Reports</i> , 2015 , 11, 1184-92	10.6	18
29	Design, Synthesis, and Biological Activity of 1,2,3-Triazolobenzodiazepine BET Bromodomain Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 1298-1303	4.3	17
28	A tale of two domains - a structural perspective of the pseudokinase, MLKL. <i>FEBS Journal</i> , 2015 , 282, 4268-78	5.7	17
27	Catalytic mechanism and cofactor preference of dihydrodipicolinate reductase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Archives of Biochemistry and Biophysics</i> , 2011 , 512, 167-74	4.1	17
26	Enhanced antimalarial activity of plasmepsin V inhibitors by modification of the P position of PEXEL peptidomimetics. <i>European Journal of Medicinal Chemistry</i> , 2018 , 154, 182-198	6.8	17
25	A small molecule interacts with VDAC2 to block mouse BAK-driven apoptosis. <i>Nature Chemical Biology</i> , 2019 , 15, 1057-1066	11.7	16
24	The manipulation of apoptosis for cancer therapy using BH3-mimetic drugs. <i>Nature Reviews Cancer</i> , 2021 ,	31.3	16
23	The hinge domain of the epigenetic repressor SmcH1 adopts an unconventional homodimeric configuration. <i>Biochemical Journal</i> , 2016 , 473, 733-42	3.8	14

22	Preparing Samples for Crystallization of Bcl-2 Family Complexes. <i>Methods in Molecular Biology</i> , 2016 , 1419, 213-29	1.4	13
21	Potent Inhibition of Necroptosis by Simultaneously Targeting Multiple Effectors of the Pathway. <i>ACS Chemical Biology</i> , 2020 , 15, 2702-2713	4.9	11
20	NMR studies of interactions between Bax and BH3 domain-containing peptides in the absence and presence of CHAPS. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 545, 33-43	4.1	10
19	Human RIPK3 maintains MLKL in an inactive conformation prior to cell death by necroptosis. <i>Nature Communications</i> , 2021 , 12, 6783	17.4	10
18	Crystal structure of the hinge domain of Smchd1 reveals its dimerization mode and nucleic acid-binding residues. <i>Science Signaling</i> , 2020 , 13,	8.8	8
17	A model for the cytoplasmic domain of the influenza A virus M2 channel by analogy to the HIV-1 Vpu protein. <i>Protein and Peptide Letters</i> , 2002 , 9, 495-502	1.9	8
16	Structure of detergent-activated BAK dimers derived from the inert monomer. <i>Molecular Cell</i> , 2021 , 81, 2123-2134.e5	17.6	8
15	Production of a human neutralizing monoclonal antibody and its crystal structure in complex with ectodomain 3 of the interleukin-13 receptor β . <i>Biochemical Journal</i> , 2013 , 451, 165-75	3.8	7
14	Mechanism and inhibition of SARS-CoV-2 PLpro		6
13	Yeast- and antibody-based tools for studying tryptophan C-mannosylation. <i>Nature Chemical Biology</i> , 2021 , 17, 428-437	11.7	6
12	Dynamic reconfiguration of pro-apoptotic BAK on membranes. <i>EMBO Journal</i> , 2021 , 40, e107237	13	6
11	Relating SMCHD1 structure to its function in epigenetic silencing. <i>Biochemical Society Transactions</i> , 2020 , 48, 1751-1763	5.1	4
10	BCL-XL antagonism selectively reduces neutrophil life span within inflamed tissues without causing neutropenia. <i>Blood Advances</i> , 2021 , 5, 2550-2562	7.8	4
9	Membrane permeabilization is mediated by distinct epitopes in mouse and human orthologs of the necroptosis effector, MLKL.. <i>Cell Death and Differentiation</i> , 2022 ,	12.7	4
8	Ion currents through Kir potassium channels are gated by anionic lipids.. <i>Nature Communications</i> , 2022 , 13, 490	17.4	3
7	RNF41 regulates the damage recognition receptor Clec9A and antigen cross-presentation in mouse dendritic cells. <i>ELife</i> , 2020 , 9,	8.9	3
6	Structure-Guided Development of Potent Benzoylurea Inhibitors of BCL-X and BCL-2. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 5447-5469	8.3	3
5	Biophysical Characterization of Pro-apoptotic BimBH3 Peptides Reveals an Unexpected Capacity for Self-Association. <i>Structure</i> , 2021 , 29, 114-124.e3	5.2	3

4	Identification of regions within the third FnIII-like domain of the IL-5Ralpha involved in IL-5 interaction. <i>Cytokine</i> , 2000 , 12, 867-73	4	2
3	Identification of residues involved in binding of IL5 to betacom using betaIL3 and betacom chimeras. <i>FEBS Letters</i> , 1999 , 460, 99-102	3.8	2
2	Membrane permeabilization is mediated by distinct epitopes in mouse and human orthologs of the necroptosis effector, MLKL		1
1	Insights Into Drug Repurposing, as Well as Specificity and Compound Properties of Piperidine-Based SARS-CoV-2 PLpro Inhibitors.. <i>Frontiers in Chemistry</i> , 2022 , 10, 861209	5	0