

# Marc Kvansakul

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

3,683  
citations

109321

35  
h-index

144013

57  
g-index

97  
all docs

97  
docs citations

97  
times ranked

4549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vaccinia virus anti-apoptotic F1L is a novel Bcl-2-like domain-swapped dimer that binds a highly selective subset of BH3-containing death ligands. <i>Cell Death and Differentiation</i> , 2008, 15, 1564-1571.	11.2	205
2	Phosphoinositide-mediated oligomerization of a defensin induces cell lysis. <i>ELife</i> , 2014, 3, e01808.	6.0	167
3	Structure of a thrombospondin C-terminal fragment reveals a novel calcium core in the type 3 repeats. <i>EMBO Journal</i> , 2004, 23, 1223-1233.	7.8	153
4	The Bcl-2 family: structures, interactions and targets for drug discovery. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 136-150.	4.9	140
5	A Structural Viral Mimic of Prosurvival Bcl-2: Pivotal Role for Sequestering Proapoptotic Bax and Bak. <i>Molecular Cell</i> , 2007, 25, 933-942.	9.7	125
6	Crystallographic Insight into Collagen Recognition by Discoidin Domain Receptor 2. <i>Structure</i> , 2009, 17, 1573-1581.	3.3	121
7	Structural biology of the Bcl-2 family and its mimicry by viral proteins. <i>Cell Death and Disease</i> , 2013, 4, e909-e909.	6.3	119
8	The Scribble Cell Polarity Module in the Regulation of Cell Signaling in Tissue Development and Tumorigenesis. <i>Journal of Molecular Biology</i> , 2018, 430, 3585-3612.	4.2	118
9	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016, 7, 10882.	12.8	113
10	Insight into Schmid Metaphyseal Chondrodysplasia from the Crystal Structure of the Collagen X NC1 Domain Trimer. <i>Structure</i> , 2002, 10, 165-173.	3.3	108
11	Structural Basis for Apoptosis Inhibition by Epstein-Barr Virus BHRF1. <i>PLoS Pathogens</i> , 2010, 6, e1001236.	4.7	99
12	Tumor cell membrane-targeting cationic antimicrobial peptides: novel insights into mechanisms of action and therapeutic prospects. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3809-3825.	5.4	94
13	Structural and functional analysis of MiD51, a dynamin receptor required for mitochondrial fission. <i>Journal of Cell Biology</i> , 2014, 204, 477-486.	5.2	91
14	The Bcl-2 Family: Ancient Origins, Conserved Structures, and Divergent Mechanisms. <i>Biomolecules</i> , 2020, 10, 128.	4.0	88
15	The Bcl-2 Family in Host-Virus Interactions. <i>Viruses</i> , 2017, 9, 290.	3.3	87
16	The Tomato Defensin TPP3 Binds Phosphatidylinositol (4,5)-Bisphosphate via a Conserved Dimeric Cationic Grip Conformation To Mediate Cell Lysis. <i>Molecular and Cellular Biology</i> , 2015, 35, 1964-1978.	2.3	84
17	Dimerization of Plant Defensin NaD1 Enhances Its Antifungal Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 19961-19972.	3.4	71
18	NatD promotes lung cancer progression by preventing histone H4 serine phosphorylation to activate Slug expression. <i>Nature Communications</i> , 2017, 8, 928.	12.8	69

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19	The restricted binding repertoire of Bcl-B leaves Bim as the universal BH3-only prosurvival Bcl-2 protein antagonist. <i>Cell Death and Disease</i> , 2012, 3, e443-e443.	6.3	61
20	Structural Insight into African Swine Fever Virus A179L-Mediated Inhibition of Apoptosis. <i>Journal of Virology</i> , 2017, 91, .	3.4	59
21	Modified vaccinia virus Ankara protein F1L is a novel BH3-domain-binding protein and acts together with the early viral protein E3L to block virus-associated apoptosis. <i>Cell Death and Differentiation</i> , 2006, 13, 109-118.	11.2	58
22	Crystal structure of the collagen $\alpha 1(VIII)$ NC1 trimer. <i>Matrix Biology</i> , 2003, 22, 145-152.	3.6	56
23	X-ray structure of a carpet-like antimicrobial defensinâ€“phospholipid membrane disruption complex. <i>Nature Communications</i> , 2018, 9, 1962.	12.8	50
24	i-bodies, Human Single Domain Antibodies That Antagonize Chemokine Receptor CXCR4. <i>Journal of Biological Chemistry</i> , 2016, 291, 12641-12657.	3.4	49
25	Binding of phosphatidic acid by Nsd7 mediates the formation of helical defensinâ€“lipid oligomeric assemblies and membrane permeabilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11202-11207.	7.1	48
26	Ancient and conserved functional interplay between Bcl-2 family proteins in the mitochondrial pathway of apoptosis. <i>Science Advances</i> , 2020, 6, .	10.3	47
27	The Structural Biology of BH3-Only Proteins. <i>Methods in Enzymology</i> , 2014, 544, 49-74.	1.0	46
28	Viral Infection and Apoptosis. <i>Viruses</i> , 2017, 9, 356.	3.3	45
29	Structural basis for the high-affinity interaction of nidogen-1 with immunoglobulin-like domain 3 of perlecan. <i>EMBO Journal</i> , 2001, 20, 5342-5346.	7.8	44
30	Human $\beta 2$ -defensin 3 contains an oncolytic motif that binds PI(4,5)P2 to mediate tumour cell permeabilisation. <i>Oncotarget</i> , 2016, 7, 2054-2069.	1.8	44
31	Extracellular matrix retention of thrombospondin 1 is controlled by its conserved C-terminal region. <i>Journal of Cell Science</i> , 2008, 121, 784-795.	2.0	42
32	Sheeppox Virus SPPV14 Encodes a Bcl-2-Like Cell Death Inhibitor That Counters a Distinct Set of Mammalian Proapoptotic Proteins. <i>Journal of Virology</i> , 2012, 86, 11501-11511.	3.4	41
33	Splitting up the powerhouse: structural insights into the mechanism of mitochondrial fission. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3695-3707.	5.4	41
34	Deerpox Virus Encodes an Inhibitor of Apoptosis That Regulates Bak and Bax. <i>Journal of Virology</i> , 2011, 85, 1922-1934.	3.4	40
35	Human $\beta 2$ -defensin 2 kills <i>Candida albicans</i> through phosphatidylinositol 4,5-bisphosphateâ€“mediated membrane permeabilization. <i>Science Advances</i> , 2018, 4, eaat0979.	10.3	40
36	Variola virus F1L is a Bcl-2-like protein that unlike its vaccinia virus counterpart inhibits apoptosis independent of Bim. <i>Cell Death and Disease</i> , 2015, 6, e1680-e1680.	6.3	38

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37	Structural Insight into BH3 Domain Binding of Vaccinia Virus Antiapoptotic F1L. Journal of Virology, 2014, 88, 8667-8677.	3.4	37
38	Structural basis of coronavirus E protein interactions with human PALS1 PDZ domain. Communications Biology, 2021, 4, 724.	4.4	37
39	EBV BCL-2 homologue BHRF1 drives chemoresistance and lymphomagenesis by inhibiting multiple cellular pro-apoptotic proteins. Cell Death and Differentiation, 2020, 27, 1554-1568.	11.2	35
40	Structural basis for the differential interaction of Scribble PDZ domains with the guanine nucleotide exchange factor $\beta$ -PIX. Journal of Biological Chemistry, 2017, 292, 20425-20436.	3.4	33
41	Drosophila melanogaster Guk-holder interacts with the Scribbled PDZ1 domain and regulates epithelial development with Scribbled and Discs Large. Journal of Biological Chemistry, 2018, 293, 4519-4531.	3.4	31
42	Crystal Structure of African Swine Fever Virus A179L with the Autophagy Regulator Beclin. Viruses, 2019, 11, 789.	3.3	31
43	Structural basis of apoptosis inhibition by the fowlpox virus protein FPV039. Journal of Biological Chemistry, 2017, 292, 9010-9021.	3.4	30
44	Poxviral Strategies to Overcome Host Cell Apoptosis. Pathogens, 2021, 10, 6.	2.8	30
45	Grouper iridovirus GIV66 is a Bcl-2 protein that inhibits apoptosis by exclusively sequestering Bim. Journal of Biological Chemistry, 2018, 293, 5464-5477.	3.4	27
46	Vaccinia Virus F1L Interacts with Bak Using Highly Divergent Bcl-2 Homology Domains and Replaces the Function of Mcl-1. Journal of Biological Chemistry, 2010, 285, 4695-4708.	3.4	26
47	Structural basis of <i>Deerpox virus</i> -mediated inhibition of apoptosis. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1593-1603.	2.5	25
48	CED-4 forms a 2:2 heterotetrameric complex with CED-9 until specifically displaced by EGL-1 or CED-13. Cell Death and Differentiation, 2006, 13, 426-434.	11.2	23
49	Functional Regulation of the Plasma Protein Histidine-Rich Glycoprotein by Zn <sup>2+</sup> in Settings of Tissue Injury. Biomolecules, 2017, 7, 22.	4.0	23
50	Structural insight into an evolutionarily ancient programmed cell death regulator – the crystal structure of marine sponge BHP2 bound to LB-Bak-2. Cell Death and Disease, 2018, 8, e2543-e2543.	6.3	23
51	MCMV-mediated Inhibition of the Pro-apoptotic Bak Protein Is Required for Optimal In Vivo Replication. PLoS Pathogens, 2013, 9, e1003192.	4.7	21
52	Yeast techniques for modeling drugs targeting Bcl-2 and caspase family members. Cell Death and Disease, 2013, 4, e619-e619.	6.3	20
53	Structural and Functional Insight into Canarypox Virus CNP058 Mediated Regulation of Apoptosis. Viruses, 2017, 9, 305.	3.3	20
54	Structural basis of interprotein electron transfer in bacterial sulfite oxidation. ELife, 2015, 4, e09066.	6.0	19

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55	Preparing Samples for Crystallization of Bcl-2 Family Complexes. <i>Methods in Molecular Biology</i> , 2016, 1419, 213-229.	0.9	18
56	Structural analysis of phosphorylation-associated interactions of human MCC with Scribble PDZ domains. <i>FEBS Journal</i> , 2019, 286, 4910-4925.	4.7	18
57	Structural and functional characterization of the membrane-permeabilizing activity of <i>Nicotiana occidentalis</i> defensin NoD173 and protein engineering to enhance oncolysis. <i>FASEB Journal</i> , 2019, 33, 6470-6482.	0.5	18
58	The enigmatic Placozoa part 1: Exploring evolutionary controversies and poor ecological knowledge. <i>BioEssays</i> , 2021, 43, e2100080.	2.5	17
59	Vaccinia Virus Encodes a Novel Inhibitor of Apoptosis That Associates with the Apoptosome. <i>Journal of Virology</i> , 2017, 91, .	3.4	16
60	Crystal structure of the human Scribble PDZ1 domain bound to the PDZ-binding motif of APC. <i>FEBS Letters</i> , 2019, 593, 533-542.	2.8	16
61	Structure of the defensin NsD7 in complex with PIP <sub>2</sub> reveals that defensin-lipid oligomer topologies are dependent on lipid type. <i>FEBS Letters</i> , 2017, 591, 2482-2490.	2.8	13
62	Structural basis of the human Scribble-Vangl2 association in health and disease. <i>Biochemical Journal</i> , 2021, 478, 1321-1332.	3.7	12
63	Crystallization and preliminary X-ray crystallographic analysis of the plant defensin NaD1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 85-88.	0.7	11
64	Recombinant expression and purification of the tomato defensin TPP3 and its preliminary X-ray crystallographic analysis. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 314-316.	0.7	11
65	Crystallization reports are the backbone of <i>Acta Cryst. F</i> , but do they have any spine?. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 712-718.	0.7	11
66	The N Terminus of the Vaccinia Virus Protein F1L Is an Intrinsically Unstructured Region That Is Not Involved in Apoptosis Regulation. <i>Journal of Biological Chemistry</i> , 2016, 291, 14600-14608.	3.4	11
67	Structural insight into tanapoxvirus-mediated inhibition of apoptosis. <i>FEBS Journal</i> , 2020, 287, 3733-3750.	4.7	11
68	Crystal structures of the sheeppox virus encoded inhibitor of apoptosis SPPV14 bound to the proapoptotic BH3 peptides Hrk and Bax. <i>FEBS Letters</i> , 2020, 594, 2016-2026.	2.8	9
69	Divalent metal binding by histidine-rich glycoprotein differentially regulates higher order oligomerisation and proteolytic processing. <i>FEBS Letters</i> , 2017, 591, 164-176.	2.8	8
70	A structural investigation of NRZ mediated apoptosis regulation in zebrafish. <i>Cell Death and Disease</i> , 2018, 9, 967.	6.3	8
71	Crystallographic Studies of PDZ Domain-Peptide Interactions of the Scribble Polarity Module. <i>Methods in Molecular Biology</i> , 2021, 2256, 125-135.	0.9	8
72	Crystal structures of ORFV125 provide insight into orf virus-mediated inhibition of apoptosis. <i>Biochemical Journal</i> , 2020, 477, 4527-4541.	3.7	8

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73	Structural Basis of the Avian Influenza NS1 Protein Interactions with the Cell Polarity Regulator Scribble. <i>Viruses</i> , 2022, 14, 583.	3.3	8
74	Metazoans and Intrinsic Apoptosis: An Evolutionary Analysis of the Bcl-2 Family. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3691.	4.1	8
75	Caspase Inhibitors of the P35 Family Are More Active When Purified from Yeast than Bacteria. <i>PLoS ONE</i> , 2012, 7, e39248.	2.5	7
76	The structural basis of Bcl-2 mediated cell death regulation in hydra. <i>Biochemical Journal</i> , 2020, 477, 3287-3297.	3.7	6
77	Defensinâ€“lipid interactions in membrane targeting: mechanisms of action and opportunities for the development of antimicrobial and anticancer therapeutics. <i>Biochemical Society Transactions</i> , 2022, 50, 423-437.	3.4	6
78	Molecular basis of Tick Born encephalitis virus NS5 mediated subversion of apico-basal cell polarity signalling. <i>Biochemical Journal</i> , 2022, 479, 1303-1315.	3.7	6
79	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of N-acetylmannosamine kinase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 643-649.	0.8	5
80	Crystallization and preliminary X-ray characterization of Epsteinâ€“Barr virus BHRF1 in complex with a benzoylurea peptidomimetic. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1521-1524.	0.7	4
81	Structural Investigation of Orf Virus Bcl-2 Homolog ORFV125 Interactions with BH3-Motifs from BH3-Only Proteins Puma and Hrk. <i>Viruses</i> , 2021, 13, 1374.	3.3	4
82	The enigmatic Placozoa part 2: Exploring evolutionary controversies and promising questions on earth and in space. <i>BioEssays</i> , 2021, 43, 2100083.	2.5	3
83	Structural Insight into KsBcl-2 Mediated Apoptosis Inhibition by Kaposi Sarcoma Associated Herpes Virus. <i>Viruses</i> , 2022, 14, 738.	3.3	2
84	ABA/ASB structural biology session II 2018. <i>Biophysical Reviews</i> , 2019, 11, 279-279.	3.2	1
85	Session 1SBP: ASB-BSJ Joint Symposiumâ€“current challenges in biophysics centering on biomolecular interactions and the underlying forces. <i>Biophysical Reviews</i> , 2020, 12, 255-256.	3.2	1
86	Cell Polarity Regulationâ€“From Atomic to Macroscopic Scale. <i>Journal of Molecular Biology</i> , 2018, 430, 3455-3456.	4.2	0
87	Structural studies of collagen X and collagen VIII NC1 domains. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2002, 58, c297-c297.	0.3	0
88	Insight into viral inhibition of apoptosis â€“ structures of myxoma virus M11L and vaccinia virus F1L. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, C328-C328.	0.3	0
89	Structural basis for the inhibition of apoptosis by Epsteinâ€“Barr virus BHRF1. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C76-C76.	0.3	0
90	A structural investigation of NRZ mediated apoptosis regulation in zebrafish. <i>FASEB Journal</i> , 2019, 33, 646.17.	0.5	0