

Fung T Lay

List of Publications by Year in descending order

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29
papers

2,467
citations

304368

22
h-index

476904

29
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34
all docs

34
docs citations

34
times ranked

2445
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	6
2	Human Î²-Defensin 2 (HBD-2) Displays Oncolytic Activity but Does Not Affect Tumour Cell Migration. <i>Biomolecules</i> , 2022, 12, 264.	1.8	9
3	Plexin B2 Is a Regulator of Monocyte Apoptotic Cell Disassembly. <i>Cell Reports</i> , 2019, 29, 1821-1831.e3.	2.9	28
4	Salt-Tolerant Antifungal and Antibacterial Activities of the Corn Defensin ZmD32. <i>Frontiers in Microbiology</i> , 2019, 10, 795.	1.5	45
5	Structural and functional characterization of the membraneâ€“permeabilizing activity of <i>Nicotiana occidentalis</i> defensin NoD173 and protein engineering to enhance oncolysis. <i>FASEB Journal</i> , 2019, 33, 6470-6482.	0.2	18
6	Phosphoinositides: multipurpose cellular lipids with emerging roles in cell death. <i>Cell Death and Differentiation</i> , 2019, 26, 781-793.	5.0	33
7	Importance of phosphoinositide binding by human Î²-defensin 3 for Akt-dependent cytokine induction. <i>Immunology and Cell Biology</i> , 2018, 96, 54-67.	1.0	11
8	X-ray structure of a carpet-like antimicrobial defensinâ€“phospholipid membrane disruption complex. <i>Nature Communications</i> , 2018, 9, 1962.	5.8	50
9	Human Î²-defensin 2 kills <i>Candida albicans</i> through phosphatidylinositol 4,5-bisphosphate-mediated membrane permeabilization. <i>Science Advances</i> , 2018, 4, eaat0979.	4.7	40
10	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.	2.4	94
11	Convergent evolution of defensin sequence, structure and function. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 663-682.	2.4	152
12	Structure of the defensin NsD7 in complex with PIP ₂ reveals that defensin:lipid oligomer topologies are dependent on lipid type. <i>FEBS Letters</i> , 2017, 591, 2482-2490.	1.3	13
13	Human Î²-defensin 3 contains an oncolytic motif that binds PI(4,5)P2 to mediate tumour cell permeabilisation. <i>Oncotarget</i> , 2016, 7, 2054-2069.	0.8	44
14	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.	3.3	48
15	The Defensins Consist of Two Independent, Convergent Protein Superfamilies. <i>Molecular Biology and Evolution</i> , 2016, 33, 2345-2356.	3.5	123
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.	1.1	84
17	Phosphoinositide-mediated oligomerization of a defensin induces cell lysis. <i>ELife</i> , 2014, 3, e01808.	2.8	167
18	The C-terminal propeptide of a plant defensin confers cytoprotective and subcellular targeting functions. <i>BMC Plant Biology</i> , 2014, 14, 41.	1.6	50

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19	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
20	Dimerization of Plant Defensin NaD1 Enhances Its Antifungal Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 19961-19972.	1.6	71
21	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
22	A Pollen-Specific RALF from Tomato That Regulates Pollen Tube Elongation. <i>Plant Physiology</i> , 2010, 153, 703-715.	2.3	126
23	Coexpression of potato type I and II proteinase inhibitors gives cotton plants protection against insect damage in the field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15011-15015.	3.3	127
24	Novel insights on the mechanism of action of Î±-amylase inhibitors from the plant defensin family. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 719-729.	1.5	94
25	The Plant Defensin, NaD1, Enters the Cytoplasm of <i>Fusarium Oxysporum</i> Hyphae. <i>Journal of Biological Chemistry</i> , 2008, 283, 14445-14452.	1.6	193
26	Defensins - Components of the Innate Immune System in Plants. <i>Current Protein and Peptide Science</i> , 2005, 6, 85-101.	0.7	401
27	The Three-dimensional Solution Structure of NaD1, a New Floral Defensin from <i>Nicotiana glauca</i> and its Application to a Homology Model of the Crop Defense Protein alfAFP. <i>Journal of Molecular Biology</i> , 2003, 325, 175-188.	2.0	124
28	Structure of <i>Petunia hybrida</i> Defensin 1, a Novel Plant Defensin with Five Disulfide Bonds. <i>Biochemistry</i> , 2003, 42, 8214-8222.	1.2	90
29	Isolation and Properties of Floral Defensins from Ornamental Tobacco and <i>Petunia</i> . <i>Plant Physiology</i> , 2003, 131, 1283-1293.	2.3	202