Walter D Fairlie

List of Publications by Year
in descending order

104 papers	14,805 citations	41344 49 h-index	31849 101 g-index
107 all docs	107 docs citations	107 times ranked	23914 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Apoptosis Initiated When BH3 Ligands Engage Multiple Bcl-2 Homologs, Not Bax or Bak. Science, 2007, 315, 856-859.	12.6	1,021
3	MIC-1, a novel macrophage inhibitory cytokine, is a divergent member of the TGF-Î²â€‰superfamily. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11514-11519.	7.1	972
4	Bax Crystal Structures Reveal How BH3 Domains Activate Bax and Nucleate Its Oligomerization to Induce Apoptosis. Cell, 2013, 152, 519-531.	28.9	491
5	Tumor-induced anorexia and weight loss are mediated by the TGF-Î² superfamily cytokine MIC-1. Nature Medicine, 2007, 13, 1333-1340.	30.7	489
6	Structural insights into the degradation of Mcl-1 induced by BH3 domains. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6217-6222.	7.1	397
7	Membrane-bound Fas ligand only is essential for Fas-induced apoptosis. Nature, 2009, 461, 659-663.	27.8	348
8	Anti-apoptotic Mcl-1 is essential for the development and sustained growth of acute myeloid leukemia. Genes and Development, 2012, 26, 120-125.	5.9	344
9	Concentration in plasma of macrophage inhibitory cytokine-1 and risk of cardiovascular events in women: a nested case-control study. Lancet, The, 2002, 359, 2159-2163.	13.7	235
10	Crystal structure of ABT-737 complexed with Bcl-xL: implications for selectivity of antagonists of the Bcl-2 family. Cell Death and Differentiation, 2007, 14, 1711-1713.	11.2	235
11	MIC-1 is a novel TGF-Î² superfamily cytokine associated with macrophage activation. Journal of Leukocyte Biology, 1999, 65, 2-5.	3.3	221
12	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. Cell Death and Differentiation, 2008, 15, 1564-1571.	11.2	205
13	The Intracellular Chloride Ion Channel Protein CLIC1 Undergoes a Redox-controlled Structural Transition. Journal of Biological Chemistry, 2004, 279, 9298-9305.	3.4	192
14	Crystal Structure of a Soluble Form of the Intracellular Chloride Ion Channel CLIC1 (NCC27) at 1.4-Ã... Resolution. Journal of Biological Chemistry, 2001, 276, 44993-45000.	3.4	180
15	Structure of the BH3 Domains from the p53-Inducible BH3-Only Proteins Noxa and Puma in Complex with Mcl-1. Journal of Molecular Biology, 2008, 380, 958-971.	4.2	178
16	Bcl-2, Bcl-xL, and Bcl-w are not equivalent targets of ABT-737 and navitoclax (ABT-263) in lymphoid and leukemic cells. Blood, 2012, 119, 5807-5816.	1.4	168
17	The role of BH3-only protein Bim extends beyond inhibiting Bcl-2â€“like prosurvival proteins. Journal of Cell Biology, 2009, 186, 355-362.	5.2	164
18	Apoptosis is triggered when prosurvival Bcl-2 proteins cannot restrain Bax. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18081-18087.	7.1	162

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19	(Î±/Î²+Î±)-Peptide Antagonists of BH3 Domain/Bcl-xL Recognition:â€‰ Toward General Strategies for Foldamer-Based Inhibition of Proteinâ^'Protein Interactions. Journal of the American Chemical Society, 2007, 129, 139-154.	13.7	160
20	A novel BH3 ligand that selectively targets Mcl-1 reveals that apoptosis can proceed without Mcl-1 degradation. Journal of Cell Biology, 2008, 180, 341-355.	5.2	157
21	Targeting of MCL-1 kills MYC-driven mouse and human lymphomas even when they bear mutations in p53. Genes and Development, 2014, 28, 58-70.	5.9	156
22	Anoxia induces macrophage inhibitory cytokine-1 (MIC-1) in glioblastoma cells independently of p53 and HIF-1. Oncogene, 2002, 21, 4212-4219.	5.9	145
23	Evaluation of Diverse Î±/Î²-Backbone Patterns for Functional Î±-Helix Mimicry: Analogues of the Bim BH3 Domain. Journal of the American Chemical Society, 2012, 134, 315-323.	13.7	144
24	Highâ€Resolution Structural Characterization of a Helical Î±/Î²â€Peptide Foldamer Bound to the Antiâ€Apoptotic Protein Bclâ€x_L. Angewandte Chemie - International Edition, 2009, 48, 4318-4322.	13.8	143
25	The Transforming Growth Factor-Î² Superfamily Cytokine Macrophage Inhibitory Cytokine-1 Is Present in High Concentrations in the Serum of Pregnant Women1. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 4781-4788.	3.6	137
26	A Structural Viral Mimic of Prosurvival Bcl-2:ÂAÂPivotal Role for Sequestering ProapoptoticÂBax and Bak. Molecular Cell, 2007, 25, 933-942.	9.7	125
27	BCL-XL and MCL-1 are the key BCL-2 family proteins in melanoma cell survival. Cell Death and Disease, 2019, 10, 342.	6.3	125
28	Expression of growth differentiation factorâ€15/ macrophage inhibitory cytokineâ€1 (GDFâ€15/MICâ€1) in the perinatal, adult, and injured rat brain. Journal of Comparative Neurology, 2001, 439, 32-45.	1.6	122
29	Recombinant CLIC1 (NCC27) Assembles in Lipid Bilayers via a pH-dependent Two-state Process to Form Chloride Ion Channels with Identical Characteristics to Those Observed in Chinese Hamster Ovary Cells Expressing CLIC1. Journal of Biological Chemistry, 2002, 277, 26003-26011.	3.4	110
30	The propeptide of macrophage inhibitory cytokine (MIC-1), a TGF-Î² superfamily member, acts as a quality control determinant for correctly folded MIC-1. EMBO Journal, 2000, 19, 2212-2220.	7.8	107
31	The Transforming Growth Factor-Â Superfamily Cytokine Macrophage Inhibitory Cytokine-1 Is Present in High Concentrations in the Serum of Pregnant Women. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 4781-4788.	3.6	107
32	Î±/Î²-Peptide Foldamers Targeting Intracellular Proteinâ€“Protein Interactions with Activity in Living Cells. Journal of the American Chemical Society, 2015, 137, 11365-11375.	13.7	101
33	Mutation to Bax beyond the BH3 Domain Disrupts Interactions with Pro-survival Proteins and Promotes Apoptosis. Journal of Biological Chemistry, 2011, 286, 7123-7131.	3.4	96
34	The BH3 mimetic compound, ABT-737, synergizes with a range of cytotoxic chemotherapy agents in chronic lymphocytic leukemia. Leukemia, 2009, 23, 2034-2041.	7.2	91
35	Blocking LIF action in the uterus by using a PEGylated antagonist prevents implantation: A nonhormonal contraceptive strategy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19357-19362.	7.1	89
36	Conformational Changes in Bcl-2 Pro-survival Proteins Determine Their Capacity to Bind Ligands. Journal of Biological Chemistry, 2009, 284, 30508-30517.	3.4	79

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37	Relaxin and Prostaglandin E2Regulate Interleukin 11 during Human Endometrial Stromal Cell Decidualization. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 3458-3465.	3.6	77
38	Bid chimeras indicate that most BH3-only proteins can directly activate Bak and Bax, and show no preference for Bak versus Bax. Cell Death and Disease, 2015, 6, e1735-e1735.	6.3	76
39	Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5082-5087.	7.1	69
40	Structureâ€Guided Rational Design of Î±/Î²â€Peptide Foldamers with High Affinity for BCLâ€2 Family Prosurvival Proteins. ChemBioChem, 2013, 14, 1564-1572.	2.6	65
41	Computationally designed high specificity inhibitors delineate the roles of BCL2 family proteins in cancer. ELife, 2016, 5, .	6.0	65
42	Quinazoline Sulfonamides as Dual Binders of the Proteins B-Cell Lymphoma 2 and B-Cell Lymphoma Extra Long with Potent Proapoptotic Cell-Based Activity. Journal of Medicinal Chemistry, 2011, 54, 1914-1926.	6.4	62
43	Discovery of Potent and Selective Benzothiazole Hydrazone Inhibitors of Bcl-X_L. Journal of Medicinal Chemistry, 2013, 56, 5514-5540.	6.4	60
44	MCL-1 inhibition provides a new way to suppress breast cancer metastasis and increase sensitivity to dasatinib. Breast Cancer Research, 2016, 18, 125.	5.0	60
45	Conversion of Bim-BH3 from Activator to Inhibitor of Bak through Structure-Based Design. Molecular Cell, 2017, 68, 659-672.e9.	9.7	57
46	BECLIN1: Protein Structure, Function and Regulation. Cells, 2021, 10, 1522.	4.1	57
47	Structural Basis of Bclâ€x_L Recognition by a BH3â€Mimetic Î±/Î²â€Peptide Generated by Sequenceâ€Based Design. ChemBioChem, 2011, 12, 2025-2032.	2.6	56
48	Discovery and molecular characterization of a Bcl-2â€“regulated cell death pathway in schistosomes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6999-7003.	7.1	53
49	Antibody-Based Approach to High-Volume Genotyping for MIC-1 Polymorphism. BioTechniques, 2002, 33, 118-126.	1.8	51
50	Crosstalk between apoptosis and autophagy signaling pathways. International Review of Cell and Molecular Biology, 2020, 352, 115-158.	3.2	51
51	ATF3 Repression of BCL-XL Determines Apoptotic Sensitivity to HDAC Inhibitors across Tumor Types. Clinical Cancer Research, 2017, 23, 5573-5584.	7.0	46
52	Mcl-1 and Bcl-xL sequestration of Bak confers differential resistance to BH3-only proteins. Cell Death and Differentiation, 2018, 25, 721-734.	11.2	44
53	The Structural Biology of Bcl-xL. International Journal of Molecular Sciences, 2019, 20, 2234.	4.1	44
54	Prosurvival Bcl-2 family members reveal a distinct apoptotic identity between conventional and plasmacytoid dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4044-4049.	7.1	43

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55	Residue-Based Preorganization of BH3-Derived Î±/Î²-Peptides: Modulating Affinity, Selectivity and Proteolytic Susceptibility in Î±-Helix Mimics. ACS Chemical Biology, 2015, 10, 1667-1675.	3.4	40
56	Physiological restraint of Bak by Bcl-x_L is essential for cell survival. Genes and Development, 2016, 30, 1240-1250.	5.9	40
57	The Propeptide of the Transforming Growth Factor-Î² Superfamily Member, Macrophage Inhibitory Cytokine-1 (MIC-1), Is a Multifunctional Domain That Can Facilitate Protein Folding and Secretion. Journal of Biological Chemistry, 2001, 276, 16911-16918.	3.4	39
58	Structural insights into BCL2 pro-survival protein interactions with the key autophagy regulator BECN1 following phosphorylation by STK4/MST1. Autophagy, 2019, 15, 785-795.	9.1	38
59	Structural Insights into the Protease-like Antigen Plasmodium falciparum SERA5 and Its Noncanonical Active-Site Serine. Journal of Molecular Biology, 2009, 392, 154-165.	4.2	35
60	The Functional Differences between Pro-survival and Pro-apoptotic B Cell Lymphoma 2 (Bcl-2) Proteins Depend on Structural Differences in Their Bcl-2 Homology 3 (BH3) Domains. Journal of Biological Chemistry, 2014, 289, 36001-36017.	3.4	33
61	Apoptosis in schistosomes: toward novel targets for the treatment of schistosomiasis. Trends in Parasitology, 2014, 30, 75-84.	3.3	33
62	Expression of a TGF-Î² superfamily protein, macrophage inhibitory cytokine-1, in the yeast Pichia pastoris. Gene, 2000, 254, 67-76.	2.2	32
63	Epitope Mapping of the Transforming Growth Factor-Î² Superfamily Protein, Macrophage Inhibitory Cytokine-1 (MIC-1):â€‰ Identification of at Least Five Distinct Epitope Specificities. Biochemistry, 2001, 40, 65-73.	2.5	32
64	A fusion protein system for the recombinant production of short disulfide-containing peptides. Protein Expression and Purification, 2002, 26, 171-178.	1.3	30
65	Affinity Maturation of Leukemia Inhibitory Factor and Conversion to Potent Antagonists of Signaling. Journal of Biological Chemistry, 2004, 279, 2125-2134.	3.4	30
66	A small molecule interacts with VDAC2 to block mouse BAK-driven apoptosis. Nature Chemical Biology, 2019, 15, 1057-1066.	8.0	30
67	Novel Bcl-2 Homology-3 Domain-like Sequences Identified from Screening Randomized Peptide Libraries for Inhibitors of the Pro-survival Bcl-2 Proteins. Journal of Biological Chemistry, 2009, 284, 31315-31326.	3.4	29
68	Crystal Structure of a BCL-W Domain-Swapped Dimer: Implications for the Function of BCL-2 Family Proteins. Structure, 2011, 19, 1467-1476.	3.3	25
69	Hepatocyte growth factor renders BRAF mutant human melanoma cell lines resistant to PLX4032 by downregulating the pro-apoptotic BH3-only proteins PUMA and BIM. Cell Death and Differentiation, 2016, 23, 2054-2062.	11.2	24
70	Macrophage inhibitory cytokine 1 in fetal membranes and amniotic fluid from pregnancies with and without preterm labour and premature rupture of membranes. Molecular Human Reproduction, 2003, 9, 535-540.	2.8	23
71	CED-4 forms a 2â€‰:â€‰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
72	Inhibition of Malaria Parasite Development by a Cyclic Peptide That Targets the Vital Parasite Protein SERA5. Infection and Immunity, 2008, 76, 4332-4344.	2.2	23

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73	A novel BH3-mimetic, AZD0466, targeting BCL-XL and BCL-2 is effective in pre-clinical models of malignant pleural mesothelioma. Cell Death Discovery, 2021, 7, 122.	4.7	23
74	Functional genomics approaches in parasitic helminths. Parasite Immunology, 2012, 34, 163-182.	1.5	21
75	The BECN1ÂN-terminal domain is intrinsically disordered. Autophagy, 2016, 12, 460-471.	9.1	21
76	The disulphide bond structure of thyroid-stimulating hormone Î²-subunit. Biochemical Journal, 1996, 314, 449-455.	3.7	18
77	Co-Operativity between MYC and BCL-2 Pro-Survival Proteins in Cancer. International Journal of Molecular Sciences, 2021, 22, 2841.	4.1	17
78	Negative regulation of gp130 signalling mediated through tyrosine-757 is not dependent on the recruitment of SHP2. Biochemical Journal, 2003, 372, 495-502.	3.7	16
79	Characterisation of a novel A1-specific monoclonal antibody. Cell Death and Disease, 2014, 5, e1553-e1553.	6.3	16
80	BAX-BAK1-independent LC3B lipidation by BH3 mimetics is unrelated to BH3 mimetic activity and has only minimal effects on autophagic flux. Autophagy, 2016, 12, 1083-1093.	9.1	16
81	BCL-XL is an actionable target for treatment of malignant pleural mesothelioma. Cell Death Discovery, 2020, 6, 114.	4.7	13
82	Immunochemical characterization of two thyroid-stimulating hormone Î²-subunit epitopes. Biochemical Journal, 1995, 308, 203-210.	3.7	12
83	Peptide inhibitors of the malaria surface protein, apical membrane antigen 1: Identification of key binding residues. Biopolymers, 2011, 95, 354-364.	2.4	12
84	Contribution of Specific Disulphide Bonds to Two Epitopes of Thyrotropin beta-Subunit Associated with Receptor Recognition. FEBS Journal, 1996, 240, 622-627.	0.2	11
85	Direct visualization of Bcl-2 family protein interactions using live cell fluorescent protein redistribution assays. Cell Death and Disease, 2012, 3, e288-e288.	6.3	11
86	Targeting the BCL-2-regulated apoptotic pathway for the treatment of solid cancers. Biochemical Society Transactions, 2021, 49, 2397-2410.	3.4	11
87	EGL-1 BH3 mutants reveal the importance of protein levels and target affinity for cell-killing potency. Cell Death and Differentiation, 2008, 15, 1609-1618.	11.2	10
88	Repurposing apoptosis-inducing cancer drugs to treat schistosomiasis. Future Medicinal Chemistry, 2015, 7, 707-711.	2.3	10
89	Screening Procedure for Pichia pastoris Clones Containing Multiple Copy Gene Inserts. BioTechniques, 1999, 26, 1042-1044.	1.8	9
90	The role of BCL-2 family proteins and therapeutic potential of BH3-mimetics in malignant pleural mesothelioma. Expert Review of Anticancer Therapy, 2021, 21, 413-424.	2.4	9

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91	Discovery, development and application of drugs targeting BCL-2 pro-survival proteins in cancer. Biochemical Society Transactions, 2021, 49, 2381-2395.	3.4	9
92	A Family of Leukemia Inhibitory Factor-Binding Peptides that Can Act as Antagonists When Conjugated to Poly(ethylene glycol)â€. Biochemistry, 2003, 42, 13193-13201.	2.5	8
93	Delineation of Tyrosine-Containing Epitopes within the beta Subunit of Bovine Thyrotropin. FEBS Journal, 1995, 228, 373-380.	0.2	8
94	Idronoxil as an Anticancer Agent: Activity and Mechanisms. Current Cancer Drug Targets, 2020, 20, 341-354.	1.6	7
95	Influenza A virus infectionâ€induced macroautophagy facilitates MHC class Iâ€restricted endogenous presentation of an immunodominant viral epitope. FEBS Journal, 2021, 288, 3164-3185.	4.7	6
96	Characterisation of the conformational preference and dynamics of the intrinsically disordered N-terminal region of Beclin 1 by NMR spectroscopy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1128-1137.	2.3	5
97	Diversity in the intrinsic apoptosis pathway of nematodes. Communications Biology, 2020, 3, 478.	4.4	4
98	STRUCTURAL BIOLOGY OF THE INTRINSIC CELL DEATH PATHWAY: WHAT DO WE KNOW AND WHAT IS MISSING?. Computational and Structural Biotechnology Journal, 2012, 1, e201204007.	4.1	3
99	Optimization of Benzothiazole and Thiazole Hydrazones as Inhibitors of Schistosome BCL-2. ACS Infectious Diseases, 2021, 7, 1143-1163.	3.8	3
100	Characterization of a novel human BFL-1-specific monoclonal antibody. Cell Death and Differentiation, 2020, 27, 826-828.	11.2	2
101	A transgenic mouse model to inducibly target prosurvival Bcl2 proteins with selective BH3 peptides in vivo. Cell Death and Disease, 2015, 6, e1679-e1679.	6.3	1
102	MIC-1 and other TGF-Î² superfamily members in inflammation. , 2001, , 1-9.		0
103	The role of BH3-only protein Bim extends beyond inhibiting Bcl-2â€“like prosurvival proteins. Journal of Experimental Medicine, 2009, 206, i19-i19.	8.5	0
104	Delineation of tyrosine-containing epitopes within the beta subunit of bovine thyrotropin. FEBS Journal, 1995, 228, 373-80.	0.2	0