

Walter D Fairlie

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104
papers

12,340
citations

45
h-index

107
g-index

107
ext. papers

13,757
ext. citations

9.6
avg, IF

5.32
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 104 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222 | 10.2 | 3838 |
| 103 | Apoptosis initiated when BH3 ligands engage multiple Bcl-2 homologs, not Bax or Bak. <i>Science</i> , 2007 , 315, 856-9 | 33.3 | 937 |
| 102 | MIC-1, a novel macrophage inhibitory cytokine, is a divergent member of the TGF-beta superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 11514-9 | 11.5 | 814 |
| 101 | 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 |
| 100 | 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 |
| 99 | Tumor-induced anorexia and weight loss are mediated by the TGF-beta superfamily cytokine MIC-1. <i>Nature Medicine</i> , 2007 , 13, 1333-40 | 50.5 | 357 |
| 98 | Membrane-bound Fas ligand only is essential for Fas-induced apoptosis. <i>Nature</i> , 2009 , 461, 659-63 | 50.4 | 296 |
| 97 | Anti-apoptotic Mcl-1 is essential for the development and sustained growth of acute myeloid leukemia. <i>Genes and Development</i> , 2012 , 26, 120-5 | 12.6 | 286 |
| 96 | Crystal structure of ABT-737 complexed with Bcl-xL: implications for selectivity of antagonists of the Bcl-2 family. <i>Cell Death and Differentiation</i> , 2007 , 14, 1711-3 | 12.7 | 216 |
| 95 | Concentration in plasma of macrophage inhibitory cytokine-1 and risk of cardiovascular events in women: a nested case-control study. <i>Lancet, The</i> , 2002 , 359, 2159-63 | 40 | 198 |
| 94 | MIC-1 is a novel TGF-beta superfamily cytokine associated with macrophage activation. <i>Journal of Leukocyte Biology</i> , 1999 , 65, 2-5 | 6.5 | 188 |
| 93 | 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, 1564-71 | 12.7 | 177 |
| 92 | The intracellular chloride ion channel protein CLIC1 undergoes a redox-controlled structural transition. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9298-305 | 5.4 | 158 |
| 91 | Crystal structure of a soluble form of the intracellular chloride ion channel CLIC1 (NCC27) at 1.4-A resolution. <i>Journal of Biological Chemistry</i> , 2001 , 276, 44993-5000 | 5.4 | 157 |
| 90 | (alpha/beta+alpha)-peptide antagonists of BH3 domain/Bcl-x(L) recognition: toward general strategies for foldamer-based inhibition of protein-protein interactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 139-54 | 16.4 | 156 |
| 89 | The role of BH3-only protein Bim extends beyond inhibiting Bcl-2-like prosurvival proteins. <i>Journal of Cell Biology</i> , 2009 , 186, 355-62 | 7.3 | 154 |
| 88 | Structure of the BH3 domains from the p53-inducible BH3-only proteins Noxa and Puma in complex with Mcl-1. <i>Journal of Molecular Biology</i> , 2008 , 380, 958-71 | 6.5 | 152 |

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|----|---|------|-----|
| 87 | Bcl-2, Bcl-x(L), and Bcl-w are not equivalent targets of ABT-737 and navitoclax (ABT-263) in lymphoid and leukemic cells. <i>Blood</i> , 2012 , 119, 5807-16 | 2.2 | 150 |
| 86 | 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 |
| 85 | Apoptosis is triggered when prosurvival Bcl-2 proteins cannot restrain Bax. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18081-7 | 11.5 | 141 |
| 84 | Anoxia induces macrophage inhibitory cytokine-1 (MIC-1) in glioblastoma cells independently of p53 and HIF-1. <i>Oncogene</i> , 2002 , 21, 4212-9 | 9.2 | 137 |
| 83 | Evaluation of diverse backbone patterns for functional helix mimicry: analogues of the Bim BH3 domain. <i>Journal of the American Chemical Society</i> , 2012 , 134, 315-23 | 16.4 | 133 |
| 82 | 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 |
| 81 | Targeting of MCL-1 kills MYC-driven mouse and human lymphomas even when they bear mutations in p53. <i>Genes and Development</i> , 2014 , 28, 58-70 | 12.6 | 121 |
| 80 | The transforming growth factor- α superfamily cytokine macrophage inhibitory cytokine-1 is present in high concentrations in the serum of pregnant women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 4781-8 | 5.6 | 116 |
| 79 | A structural viral mimic of prosurvival Bcl-2: a pivotal role for sequestering proapoptotic Bax and Bak. <i>Molecular Cell</i> , 2007 , 25, 933-42 | 17.6 | 110 |
| 78 | Expression of growth differentiation factor-15/ macrophage inhibitory cytokine-1 (GDF-15/MIC-1) in the perinatal, adult, and injured rat brain. <i>Journal of Comparative Neurology</i> , 2001 , 439, 32-45 | 3.4 | 107 |
| 77 | 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. <i>Journal of Biological Chemistry</i> , 2002 , 277, 26003-11 | 5.4 | 95 |
| 76 | The propeptide of macrophage inhibitory cytokine (MIC-1), a TGF-beta superfamily member, acts as a quality control determinant for correctly folded MIC-1. <i>EMBO Journal</i> , 2000 , 19, 2212-20 | 13 | 95 |
| 75 | The Transforming Growth Factor- α Superfamily Cytokine Macrophage Inhibitory Cytokine-1 Is Present in High Concentrations in the Serum of Pregnant Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 4781-4788 | 5.6 | 90 |
| 74 | The BH3 mimetic compound, ABT-737, synergizes with a range of cytotoxic chemotherapy agents in chronic lymphocytic leukemia. <i>Leukemia</i> , 2009 , 23, 2034-41 | 10.7 | 84 |
| 73 | 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 |
| 72 | BCL-XL and MCL-1 are the key BCL-2 family proteins in melanoma cell survival. <i>Cell Death and Disease</i> , 2019 , 10, 342 | 9.8 | 81 |
| 71 | Peptide Foldamers Targeting Intracellular Protein-Protein Interactions with Activity in Living Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11365-75 | 16.4 | 81 |
| 70 | Blocking LIF action in the uterus by using a PEGylated antagonist prevents implantation: a nonhormonal contraceptive strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19357-62 | 11.5 | 78 |

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|----|--|------|----|
| 69 | 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 |
| 68 | Relaxin and prostaglandin E(2) regulate interleukin 11 during human endometrial stromal cell decidualization. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 3458-65 | 5.6 | 67 |
| 67 | Bid chimeras indicate that most BH3-only proteins can directly activate Bak and Bax, and show no preference for Bak versus Bax. <i>Cell Death and Disease</i> , 2015 , 6, e1735 | 9.8 | 61 |
| 66 | Structure-guided rational design of α -peptide foldamers with high affinity for BCL-2 family prosurvival proteins. <i>ChemBioChem</i> , 2013 , 14, 1564-72 | 3.8 | 58 |
| 65 | 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 |
| 64 | Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5082-7 | 11.5 | 55 |
| 63 | Structural basis of Bcl-xL recognition by a BH3-mimetic α -peptide generated by sequence-based design. <i>ChemBioChem</i> , 2011 , 12, 2025-32 | 3.8 | 53 |
| 62 | Computationally designed high specificity inhibitors delineate the roles of BCL2 family proteins in cancer. <i>ELife</i> , 2016 , 5, | 8.9 | 52 |
| 61 | Discovery of potent and selective benzothiazole hydrazone inhibitors of Bcl-XL. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 5514-40 | 8.3 | 50 |
| 60 | Antibody-based approach to high-volume genotyping for MIC-1 polymorphism. <i>BioTechniques</i> , 2002 , 33, 118-20, 122, 124 passim | 2.5 | 46 |
| 59 | Discovery and molecular characterization of a Bcl-2-regulated cell death pathway in schistosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 6999-7003 | 11.5 | 45 |
| 58 | MCL-1 inhibition provides a new way to suppress breast cancer metastasis and increase sensitivity to dasatinib. <i>Breast Cancer Research</i> , 2016 , 18, 125 | 8.3 | 41 |
| 57 | Prosurvival Bcl-2 family members reveal a distinct apoptotic identity between conventional and plasmacytoid dendritic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4044-9 | 11.5 | 39 |
| 56 | The propeptide of the transforming growth factor-beta superfamily member, macrophage inhibitory cytokine-1 (MIC-1), is a multifunctional domain that can facilitate protein folding and secretion. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16911-8 | 5.4 | 36 |
| 55 | Residue-Based Preorganization of BH3-Derived α -Peptides: Modulating Affinity, Selectivity and Proteolytic Susceptibility in α -Helix Mimics. <i>ACS Chemical Biology</i> , 2015 , 10, 1667-75 | 4.9 | 35 |
| 54 | 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 |
| 53 | Mcl-1 and Bcl-x sequestration of Bak confers differential resistance to BH3-only proteins. <i>Cell Death and Differentiation</i> , 2018 , 25, 721-734 | 12.7 | 33 |
| 52 | ATF3 Repression of BCL-X Determines Apoptotic Sensitivity to HDAC Inhibitors across Tumor Types. <i>Clinical Cancer Research</i> , 2017 , 23, 5573-5584 | 12.9 | 31 |

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|----|---|------|----|
| 51 | Structural insights into the protease-like antigen Plasmodium falciparum SERA5 and its noncanonical active-site serine. <i>Journal of Molecular Biology</i> , 2009 , 392, 154-65 | 6.5 | 31 |
| 50 | 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. <i>Journal of Biological Chemistry</i> , 2014 , 289, 36001-17 | 5.4 | 29 |
| 49 | Physiological restraint of Bak by Bcl-xL is essential for cell survival. <i>Genes and Development</i> , 2016 , 30, 1240-50 | 12.6 | 29 |
| 48 | Epitope mapping of the transforming growth factor-beta superfamily protein, macrophage inhibitory cytokine-1 (MIC-1): identification of at least five distinct epitope specificities. <i>Biochemistry</i> , 2001 , 40, 65-73 | 3.2 | 28 |
| 47 | Novel Bcl-2 homology-3 domain-like sequences identified from screening randomized peptide libraries for inhibitors of the pro-survival Bcl-2 proteins. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31315-26 | 5.4 | 26 |
| 46 | A fusion protein system for the recombinant production of short disulfide-containing peptides. <i>Protein Expression and Purification</i> , 2002 , 26, 171-8 | 2 | 26 |
| 45 | The Structural Biology of Bcl-x. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 25 |
| 44 | Affinity maturation of leukemia inhibitory factor and conversion to potent antagonists of signaling. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2125-34 | 5.4 | 25 |
| 43 | Apoptosis in schistosomes: toward novel targets for the treatment of schistosomiasis. <i>Trends in Parasitology</i> , 2014 , 30, 75-84 | 6.4 | 23 |
| 42 | Expression of a TGF-beta superfamily protein, macrophage inhibitory cytokine-1, in the yeast <i>Pichia pastoris</i> . <i>Gene</i> , 2000 , 254, 67-76 | 3.8 | 23 |
| 41 | Crystal structure of a BCL-W domain-swapped dimer: implications for the function of BCL-2 family proteins. <i>Structure</i> , 2011 , 19, 1467-76 | 5.2 | 22 |
| 40 | Crosstalk between apoptosis and autophagy signaling pathways. <i>International Review of Cell and Molecular Biology</i> , 2020 , 352, 115-158 | 6 | 21 |
| 39 | CED-4 forms a 2 : 2 heterotetrameric complex with CED-9 until specifically displaced by EGL-1 or CED-13. <i>Cell Death and Differentiation</i> , 2006 , 13, 426-34 | 12.7 | 21 |
| 38 | Functional genomics approaches in parasitic helminths. <i>Parasite Immunology</i> , 2012 , 34, 163-82 | 2.2 | 20 |
| 37 | Inhibition of malaria parasite development by a cyclic peptide that targets the vital parasite protein SERA5. <i>Infection and Immunity</i> , 2008 , 76, 4332-44 | 3.7 | 20 |
| 36 | Macrophage inhibitory cytokine 1 in fetal membranes and amniotic fluid from pregnancies with and without preterm labour and premature rupture of membranes. <i>Molecular Human Reproduction</i> , 2003 , 9, 535-40 | 4.4 | 20 |
| 35 | Hepatocyte growth factor renders BRAF mutant human melanoma cell lines resistant to PLX4032 by downregulating the pro-apoptotic BH3-only proteins PUMA and BIM. <i>Cell Death and Differentiation</i> , 2016 , 23, 2054-2062 | 12.7 | 18 |
| 34 | The disulphide bond structure of thyroid-stimulating hormone beta-subunit. <i>Biochemical Journal</i> , 1996 , 314 (Pt 2), 449-55 | 3.8 | 17 |

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|----|--|------|----|
| 33 | Structural insights into BCL2 pro-survival protein interactions with the key autophagy regulator BECN1 following phosphorylation by STK4/MST1. <i>Autophagy</i> , 2019 , 15, 785-795 | 10.2 | 17 |
| 32 | A small molecule interacts with VDAC2 to block mouse BAK-driven apoptosis. <i>Nature Chemical Biology</i> , 2019 , 15, 1057-1066 | 11.7 | 16 |
| 31 | Negative regulation of gp130 signalling mediated through tyrosine-757 is not dependent on the recruitment of SHP2. <i>Biochemical Journal</i> , 2003 , 372, 495-502 | 3.8 | 16 |
| 30 | The BECN1N-terminal domain is intrinsically disordered. <i>Autophagy</i> , 2016 , 12, 460-71 | 10.2 | 16 |
| 29 | Characterisation of a novel A1-specific monoclonal antibody. <i>Cell Death and Disease</i> , 2014 , 5, e1553 | 9.8 | 14 |
| 28 | BAX-BAK1-independent LC3B lipidation by BH3 mimetics is unrelated to BH3 mimetic activity and has only minimal effects on autophagic flux. <i>Autophagy</i> , 2016 , 12, 1083-93 | 10.2 | 13 |
| 27 | Peptide inhibitors of the malaria surface protein, apical membrane antigen 1: identification of key binding residues. <i>Biopolymers</i> , 2011 , 95, 354-64 | 2.2 | 12 |
| 26 | Immunochemical characterization of two thyroid-stimulating hormone beta-subunit epitopes. <i>Biochemical Journal</i> , 1995 , 308 (Pt 1), 203-10 | 3.8 | 11 |
| 25 | Direct visualization of Bcl-2 family protein interactions using live cell fluorescent protein redistribution assays. <i>Cell Death and Disease</i> , 2012 , 3, e288 | 9.8 | 10 |
| 24 | EGL-1 BH3 mutants reveal the importance of protein levels and target affinity for cell-killing potency. <i>Cell Death and Differentiation</i> , 2008 , 15, 1609-18 | 12.7 | 10 |
| 23 | Contribution of specific disulphide bonds to two epitopes of thyrotropin beta-subunit associated with receptor recognition. <i>FEBS Journal</i> , 1996 , 240, 622-7 | | 10 |
| 22 | A family of leukemia inhibitory factor-binding peptides that can act as antagonists when conjugated to poly(ethylene glycol). <i>Biochemistry</i> , 2003 , 42, 13193-201 | 3.2 | 8 |
| 21 | Screening procedure for <i>Pichia pastoris</i> clones containing multiple copy gene inserts. <i>BioTechniques</i> , 1999 , 26, 1042-4 | 2.5 | 8 |
| 20 | Delineation of Tyrosine-Containing Epitopes within the beta Subunit of Bovine Thyrotropin. <i>FEBS Journal</i> , 1995 , 228, 373-380 | | 8 |
| 19 | BCL-XL is an actionable target for treatment of malignant pleural mesothelioma. <i>Cell Death Discovery</i> , 2020 , 6, 114 | 6.9 | 8 |
| 18 | Repurposing apoptosis-inducing cancer drugs to treat schistosomiasis. <i>Future Medicinal Chemistry</i> , 2015 , 7, 707-11 | 4.1 | 7 |
| 17 | Characterisation of the conformational preference and dynamics of the intrinsically disordered N-terminal region of Beclin 1 by NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 1128-1137 | 4 | 5 |
| 16 | A novel BH3-mimetic, AZD0466, targeting BCL-XL and BCL-2 is effective in pre-clinical models of malignant pleural mesothelioma. <i>Cell Death Discovery</i> , 2021 , 7, 122 | 6.9 | 5 |

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|----|---|------|---|
| 15 | Idronoxil as an Anticancer Agent: Activity and Mechanisms. <i>Current Cancer Drug Targets</i> , 2020 , 20, 341-354 | 5.8 | 4 |
| 14 | Co-Operativity between MYC and BCL-2 Pro-Survival Proteins in Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 4 |
| 13 | The role of BCL-2 family proteins and therapeutic potential of BH3-mimetics in malignant pleural mesothelioma. <i>Expert Review of Anticancer Therapy</i> , 2021 , 21, 413-424 | 3.5 | 4 |
| 12 | Structural biology of the intrinsic cell death pathway: what do we know and what is missing?. <i>Computational and Structural Biotechnology Journal</i> , 2012 , 1, e201204007 | 6.8 | 3 |
| 11 | BECLIN1: Protein Structure, Function and Regulation. <i>Cells</i> , 2021 , 10, | 7.9 | 3 |
| 10 | Characterization of a novel human BFL-1-specific monoclonal antibody. <i>Cell Death and Differentiation</i> , 2020 , 27, 826-828 | 12.7 | 2 |
| 9 | Influenza A virus infection-induced macroautophagy facilitates MHC class II-restricted endogenous presentation of an immunodominant viral epitope. <i>FEBS Journal</i> , 2021 , 288, 3164-3185 | 5.7 | 2 |
| 8 | Discovery, development and application of drugs targeting BCL-2 pro-survival proteins in cancer. <i>Biochemical Society Transactions</i> , 2021 , 49, 2381-2395 | 5.1 | 2 |
| 7 | A transgenic mouse model to inducibly target prosurvival Bcl2 proteins with selective BH3 peptides in vivo. <i>Cell Death and Disease</i> , 2015 , 6, e1679 | 9.8 | 1 |
| 6 | Targeting the BCL-2-regulated apoptotic pathway for the treatment of solid cancers. <i>Biochemical Society Transactions</i> , 2021 , 49, 2397-2410 | 5.1 | 1 |
| 5 | Diversity in the intrinsic apoptosis pathway of nematodes. <i>Communications Biology</i> , 2020 , 3, 478 | 6.7 | 0 |
| 4 | Optimization of Benzothiazole and Thiazole Hydrazones as Inhibitors of Schistosome BCL-2. <i>ACS Infectious Diseases</i> , 2021 , 7, 1143-1163 | 5.5 | 0 |
| 3 | Delineation of tyrosine-containing epitopes within the beta subunit of bovine thyrotropin. <i>FEBS Journal</i> , 1995 , 228, 373-80 | | |
| 2 | MIC-1 and other TGF- β superfamily members in inflammation 2001 , 1-9 | | |
| 1 | The role of BH3-only protein Bim extends beyond inhibiting Bcl-2-like prosurvival proteins. <i>Journal of Experimental Medicine</i> , 2009 , 206, i19-i19 | 16.6 | |