

Loren D Walensky

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

10,799
citations

61945

43
h-index

62565

80
g-index

83
all docs

83
docs citations

83
times ranked

11122
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for defective membrane targeting of mutant enzyme in human VLCAD deficiency. <i>Nature Communications</i> , 2022, 13, .	5.8	5
2	Characterizing Native and Hydrocarbon-Stapled Enfuvirtide Conformations with Ion Mobility Mass Spectrometry and Hydrogenâ€“Deuterium Exchange. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 753-761.	1.2	5
3	The conformational stability of pro-apoptotic BAX is dictated by discrete residues of the protein core. <i>Nature Communications</i> , 2021, 12, 4932.	5.8	13
4	Binding and transport of SFPQ-RNA granules by KIF5A/KLC1 motors promotes axon survival. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	40
5	Glucose metabolism and pyruvate carboxylase enhance glutathione synthesis and restrict oxidative stress in pancreatic islets. <i>Cell Reports</i> , 2021, 37, 110037.	2.9	21
6	A redox switch regulates the structure and function of anti-apoptotic BFL-1. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 781-789.	3.6	4
7	Identification of a Structural Determinant for Selective Targeting of HDMX. <i>Structure</i> , 2020, 28, 847-857.e5.	1.6	2
8	Targeting a helix-in-groove interaction between E1 and E2 blocks ubiquitin transfer. <i>Nature Chemical Biology</i> , 2020, 16, 1218-1226.	3.9	5
9	Hydrocarbon-Stitched Peptide Agonists of Glucagon-Like Peptide-1 Receptor. <i>ACS Chemical Biology</i> , 2020, 15, 1340-1348.	1.6	11
10	Identification of a Covalent Molecular Inhibitor of Anti-apoptotic BFL-1 by Disulfide Tethering. <i>Cell Chemical Biology</i> , 2020, 27, 647-656.e6.	2.5	28
11	Glucose-dependent partitioning of arginine to the urea cycle protects Î² ² -cells from inflammation. <i>Nature Metabolism</i> , 2020, 2, 432-446.	5.1	27
12	Homogeneous Oligomers of Pro-apoptotic BAX Reveal Structural Determinants of Mitochondrial Membrane Permeabilization. <i>Molecular Cell</i> , 2020, 79, 68-83.e7.	4.5	32
13	Site-Dependent Cysteine Lipidation Potentiates the Activation of Proapoptotic BAX. <i>Cell Reports</i> , 2020, 30, 3229-3239.e6.	2.9	15
14	Mind the gap: Expediting gender parity in MD-PhD admissions. <i>JCI Insight</i> , 2020, 5, .	2.3	4
15	Design of stapled antimicrobial peptides that are stable, nontoxic and kill antibiotic-resistant bacteria in mice. <i>Nature Biotechnology</i> , 2019, 37, 1186-1197.	9.4	187
16	Targeting BAX to drug death directly. <i>Nature Chemical Biology</i> , 2019, 15, 657-665.	3.9	69
17	Cheating Death: New Molecules Block BAX. <i>Trends in Molecular Medicine</i> , 2019, 25, 259-261.	3.5	1
18	MDM2 and MDM4 Are Therapeutic Vulnerabilities in Malignant Rhabdoid Tumors. <i>Cancer Research</i> , 2019, 79, 2404-2414.	0.4	43

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19	Dynamic Regulation of Long-Chain Fatty Acid Oxidation by a Noncanonical Interaction between the MCL-1 BH3 Helix and VLCAD. <i>Molecular Cell</i> , 2018, 69, 729-743.e7.	4.5	45
20	Iterative optimization yields Mcl-1 targeting stapled peptides with selective cytotoxicity to Mcl-1 dependent cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E886-E895.	3.3	69
21	Crystal Structures of Anti-apoptotic BFL-1 and Its Complex with a Covalent Stapled Peptide Inhibitor. <i>Structure</i> , 2018, 26, 153-160.e4.	1.6	35
22	Precision Targeting of BFL-1/A1 and an ATM Co-dependency in Human Cancer. <i>Cell Reports</i> , 2018, 24, 3393-3403.e5.	2.9	15
23	Genome-scale CRISPR-Cas9 screen identifies druggable dependencies in TP53 wild-type Ewing sarcoma. <i>Journal of Experimental Medicine</i> , 2018, 215, 2137-2155.	4.2	55
24	Bim gene dosage is critical in modulating nephron progenitor survival in the absence of microRNAs during kidney development. <i>FASEB Journal</i> , 2017, 31, 3540-3554.	0.2	15
25	Direct Activation of BAX by BTSA1 Overcomes Apoptosis Resistance in Acute Myeloid Leukemia. <i>Cancer Cell</i> , 2017, 32, 490-505.e10.	7.7	128
26	Extra-mitochondrial prosurvival BCL-2 proteins regulate gene transcription by inhibiting the SUFU tumour suppressor. <i>Nature Cell Biology</i> , 2017, 19, 1226-1236.	4.6	38
27	Paclitaxel Reduces Axonal Bclw to Initiate IP3R1-Dependent Axon Degeneration. <i>Neuron</i> , 2017, 96, 373-386.e6.	3.8	83
28	Allosteric sensitization of proapoptotic BAX. <i>Nature Chemical Biology</i> , 2017, 13, 961-967.	3.9	40
29	Phase I trial of a novel stapled peptide ALRN-6924 disrupting MDMX- and MDM2-mediated inhibition of WT p53 in patients with solid tumors and lymphomas. <i>Journal of Clinical Oncology</i> , 2017, 35, 2505-2505.	0.8	71
30	Allosteric inhibition of antiapoptotic MCL-1. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 600-607.	3.6	46
31	Biophysical determinants for cellular uptake of hydrocarbon-stapled peptide helices. <i>Nature Chemical Biology</i> , 2016, 12, 845-852.	3.9	178
32	Challenges in Targeting a Basic Helix-Loop-Helix Transcription Factor with Hydrocarbon-Stapled Peptides. <i>ACS Chemical Biology</i> , 2016, 11, 3146-3153.	1.6	15
33	Selective Covalent Targeting of Anti-Apoptotic BFL-1 by Cysteine-Reactive Stapled Peptide Inhibitors. <i>Cell Chemical Biology</i> , 2016, 23, 1123-1134.	2.5	59
34	Reply to Fernandez-Marrero et al.: Role of BOK at the intersection of endoplasmic reticulum stress and apoptosis regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E494-E495.	3.3	9
35	BCL-2 family member BOK promotes apoptosis in response to endoplasmic reticulum stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7201-7206.	3.3	104
36	Phospho-BAD BH3 Mimicry Protects β^2 Cells and Restores Functional β^2 Cell Mass in Diabetes. <i>Cell Reports</i> , 2015, 10, 497-504.	2.9	26

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37	Inhibition of Pro-Apoptotic BAX by a Noncanonical Interaction Mechanism. <i>Molecular Cell</i> , 2015, 57, 873-886.	4.5	116
38	Direct inhibition of oncogenic KRAS by hydrocarbon-stapled SOS1 helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1761-1766.	3.3	137
39	A Nonapoptotic Role for BAX and BAK in Eicosanoid Metabolism. <i>ACS Chemical Biology</i> , 2015, 10, 1398-1403.	1.6	4
40	Regulation of mitochondrial ceramide distribution by members of the BCL-2 family. <i>Journal of Lipid Research</i> , 2015, 56, 1501-1510.	2.0	22
41	Generation of Multiple Reporter Ions from a Single Isobaric Reagent Increases Multiplexing Capacity for Quantitative Proteomics. <i>Analytical Chemistry</i> , 2015, 87, 9855-9863.	3.2	42
42	Cellular Uptake and Ultrastructural Localization Underlie the Pro-apoptotic Activity of a Hydrocarbon-stapled BIM BH3 Peptide. <i>ACS Chemical Biology</i> , 2015, 10, 2149-2157.	1.6	33
43	SWI/SNF-mutant cancers depend on catalytic and non-catalytic activity of EZH2. <i>Nature Medicine</i> , 2015, 21, 1491-1496.	15.2	334
44	Stapled HIV-1 peptides recapitulate antigenic structures and engage broadly neutralizing antibodies. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 1058-1067.	3.6	69
45	Hydrocarbon-Stapled Peptides: Principles, Practice, and Progress. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6275-6288.	2.9	632
46	A phospho-BAD BH3 helix activates glucokinase by a mechanism distinct from that of allosteric activators. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 36-42.	3.6	46
47	Photoreactive Stapled Peptides to Identify and Characterize BCL-2 Family Interaction Sites by Mass Spectrometry. <i>Methods in Enzymology</i> , 2014, 544, 25-48.	0.4	10
48	Distinct BimBH3 (BimSAHB) Stapled Peptides for Structural and Cellular Studies. <i>ACS Chemical Biology</i> , 2014, 9, 831-837.	1.6	86
49	Mucosal delivery of a double-stapled RSV peptide prevents nasopulmonary infection. <i>Journal of Clinical Investigation</i> , 2014, 124, 2113-2124.	3.9	61
50	Direct BAKtivation. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 536-538.	3.6	7
51	Targeted disruption of the EZH2-EED complex inhibits EZH2-dependent cancer. <i>Nature Chemical Biology</i> , 2013, 9, 643-650.	3.9	302
52	The retinoblastoma protein induces apoptosis directly at the mitochondria. <i>Genes and Development</i> , 2013, 27, 1003-1015.	2.7	102
53	Direct activation of full-length proapoptotic BAK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E986-95.	3.3	142
54	Multimodal Interaction with BCL-2 Family Proteins Underlies the Proapoptotic Activity of PUMA BH3. <i>Chemistry and Biology</i> , 2013, 20, 888-902.	6.2	61

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55	Playing FullBAK. <i>Cell Cycle</i> , 2013, 12, 1333-1334.	1.3	2
56	From Mitochondrial Biology to Magic Bullet: Navitoclax Disarms BCL-2 in Chronic Lymphocytic Leukemia. <i>Journal of Clinical Oncology</i> , 2012, 30, 554-557.	0.8	26
57	Targeted Disruption of the BCL9/ β^2 -Catenin Complex Inhibits Oncogenic Wnt Signaling. <i>Science Translational Medicine</i> , 2012, 4, 148ra117.	5.8	214
58	A Competitive Stapled Peptide Screen Identifies a Selective Small Molecule that Overcomes MCL-1-Dependent Leukemia Cell Survival. <i>Chemistry and Biology</i> , 2012, 19, 1175-1186.	6.2	128
59	Direct and selective small-molecule activation of proapoptotic BAX. <i>Nature Chemical Biology</i> , 2012, 8, 639-645.	3.9	160
60	A stapled BIM peptide overcomes apoptotic resistance in hematologic cancers. <i>Journal of Clinical Investigation</i> , 2012, 122, 2018-2031.	3.9	153
61	Stemming Danger with Golgified BAX. <i>Molecular Cell</i> , 2012, 46, 554-556.	4.5	2
62	Tracking BAX once its trigger is pulled. <i>Cell Cycle</i> , 2011, 10, 868-870.	1.3	10
63	BAX unleashed: the biochemical transformation of an inactive cytosolic monomer into a toxic mitochondrial pore. <i>Trends in Biochemical Sciences</i> , 2011, 36, 642-652.	3.7	148
64	Chemical Synthesis of Hydrocarbonâ€Stapled Peptides for Protein Interaction Research and Therapeutic Targeting. <i>Current Protocols in Chemical Biology</i> , 2011, 3, 99-117.	1.7	72
65	A Stapled p53 Helix Overcomes HDMX-Mediated Suppression of p53. <i>Cancer Cell</i> , 2010, 18, 411-422.	7.7	264
66	Photoreactive Stapled BH3 Peptides to Dissect the BCL-2 Family Interactome. <i>Chemistry and Biology</i> , 2010, 17, 1325-1333.	6.2	45
67	The MCL-1 BH3 helix is an exclusive MCL-1 inhibitor and apoptosis sensitizer. <i>Nature Chemical Biology</i> , 2010, 6, 595-601.	3.9	374
68	Hydrocarbon double-stapling remedies the proteolytic instability of a lengthy peptide therapeutic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14093-14098.	3.3	296
69	BH3-Triggered Structural Reorganization Drives the Activation of Proapoptotic BAX. <i>Molecular Cell</i> , 2010, 40, 481-492.	4.5	272
70	BAX activation is initiated at a novel interaction site. <i>Nature</i> , 2008, 455, 1076-1081.	13.7	617
71	Dual role of proapoptotic BAD in insulin secretion and beta cell survival. <i>Nature Medicine</i> , 2008, 14, 144-153.	15.2	285
72	Chapter 23 Dissection of the BCLâ€2 Family Signaling Network with Stabilized Î±â€Helices of BCLâ€2 Domains. <i>Methods in Enzymology</i> , 2008, 446, 387-408.	0.4	44

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73	Chapter 22 Synthesis and Biophysical Characterization of Stabilized α -Helices of BCL-2 Domains. <i>Methods in Enzymology</i> , 2008, 446, 369-386.	0.4	86
74	A Stapled BIM BH3 Helix Overcomes the MCL-1-Mediated Apoptotic Blockade of Refractory Hematologic Cancers. <i>Blood</i> , 2008, 112, 862-862.	0.6	1
75	A Stapled p53 Helix Targets HDMX to Overcome Nutlin-3 Resistance and Reactivate the p53 Tumor Suppressor Pathway in Cancer. <i>Blood</i> , 2008, 112, 2645-2645.	0.6	0
76	Reactivation of the p53 Tumor Suppressor Pathway by a Stapled p53 Peptide. <i>Journal of the American Chemical Society</i> , 2007, 129, 2456-2457.	6.6	498
77	Pharmacologic Replacement of BIM BH3 Reactivates Apoptosis in Hematologic Cancer and Lymphoproliferative Disease.. <i>Blood</i> , 2007, 110, 524-524.	0.6	0
78	A Stapled BID BH3 Helix Directly Binds and Activates BAX. <i>Molecular Cell</i> , 2006, 24, 199-210.	4.5	347
79	BCL-2 in the crosshairs: tipping the balance of life and death. <i>Cell Death and Differentiation</i> , 2006, 13, 1339-1350.	5.0	221
80	A Membrane-targeted BID BCL-2 Homology 3 Peptide Is Sufficient for High Potency Activation of BAX in Vitro. <i>Journal of Biological Chemistry</i> , 2006, 281, 36999-37008.	1.6	74
81	Activation of Apoptosis in Vivo by a Hydrocarbon-Stapled BH3 Helix. <i>Science</i> , 2004, 305, 1466-1470.	6.0	1,236
82	Distinct BH3 domains either sensitize or activate mitochondrial apoptosis, serving as prototype cancer therapeutics. <i>Cancer Cell</i> , 2002, 2, 183-192.	7.7	1,467