Benjamin D Bax

List of Publications by Year in Descending Order

47 papers	2,532 citations	25 h-index	50 g-index
51 ext. papers	2,992 ext. citations	7.7 avg, IF	4.26 L-index

#	Paper	IF	Citations
47	Tyrosine 121 moves revealing a ligandable pocket that couples catalysis to ATP-binding in serine racemase.. *Communications Biology*, **2022**, 5, 346	6.7	1
46	Conformational flexibility within the small domain of human serine racemase. *Acta Crystallographica Section F, Structural Biology Communications*, **2020**, 76, 65-73	1.1	2
45	Crystallization and structure of ebselen bound to Cys141 of human inositol monophosphatase. *Acta Crystallographica Section F, Structural Biology Communications*, **2020**, 76, 469-476	1.1	5
44	Structure-guided design of antibacterials that allosterically inhibit DNA gyrase. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 1407-1412	2.9	10
43	Structural and functional analysis of the nucleotide and DNA binding activities of the human PIF1 helicase. *Nucleic Acids Research*, **2019**, 47, 3208-3222	20.1	20
42	DNA Topoisomerase Inhibitors: Trapping a DNA-Cleaving Machine in Motion. *Journal of Molecular Biology*, **2019**, 431, 3427-3449	6.5	29
41	Mechanistic and Structural Basis for the Actions of the Antibacterial Gepotidacin against Staphylococcus aureus Gyrase. *ACS Infectious Diseases*, **2019**, 5, 570-581	5.5	48
40	Coupling the core of the anticancer drug etoposide to an oligonucleotide induces topoisomerase II-mediated cleavage at specific DNA sequences. *Nucleic Acids Research*, **2018**, 46, 2218-2233	20.1	13
39	A new class of antibacterials, the imidazopyrazinones, reveal structural transitions involved in DNA gyrase poisoning and mechanisms of resistance. *Nucleic Acids Research*, **2018**, 46, 4114-4128	20.1	18
38	Mechanism of Action of Mycobacterium tuberculosis Gyrase Inhibitors: A Novel Class of Gyrase Poisons. *ACS Infectious Diseases*, **2018**, 4, 1211-1222	5.5	13
37	Thiophene antibacterials that allosterically stabilize DNA-cleavage complexes with DNA gyrase. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4492-E4500	11.5	33
36	Getting the chemistry right: protonation, tautomers and the importance of H atoms in biological chemistry. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 131-140	5.5	33
35	From PIM1 to PI3K via GSK3 Target Hopping through the Kinome. *ACS Medicinal Chemistry Letters*, **2017**, 8, 1093-1098	4.3	8
34	Novel tricyclics (e.g., GSK945237) as potent inhibitors of bacterial type IIA topoisomerases. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 2464-2469	2.9	31
33	Inhibition of PAD4 activity is sufficient to disrupt mouse and human NET formation. *Nature Chemical Biology*, **2015**, 11, 189-91	11.7	354
32	Crystallization and initial crystallographic analysis of covalent DNA-cleavage complexes of Staphyloccocus aureus DNA gyrase with QPT-1, moxifloxacin and etoposide. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 1242-6	1.1	13
31	Structural basis of DNA gyrase inhibition by antibacterial QPT-1, anticancer drug etoposide and moxifloxacin. *Nature Communications*, **2015**, 6, 10048	17.4	71

30	Protein arginine deiminase 2 binds calcium in an ordered fashion: implications for inhibitor design. *ACS Chemical Biology*, **2015**, 10, 1043-53	4.9	68
29	Crystallizing Membrane Proteins in the Lipidic Mesophase. Experience with Human Prostaglandin E2 Synthase 1 and an Evolving Strategy. *Crystal Growth and Design*, **2014**, 14, 2034-2047	3.5	49
28	Novel hydroxyl tricyclics (e.g., GSK966587) as potent inhibitors of bacterial type IIA topoisomerases. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 5437-41	2.9	48
27	Recent Developments in Inhibitors of Bacterial Type IIA Topoisomerases **2013**, 263-297		8
26	Purification, crystallization and preliminary X-ray crystallographic studies of the Mycobacterium tuberculosis DNA gyrase ATPase domain. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 679-82		4
25	5-Aryl-4-carboxamide-1,3-oxazoles: potent and selective GSK-3 inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 1989-94	2.9	42
24	Integration of lead optimization with crystallography for a membrane-bound ion channel target: discovery of a new class of AMPA receptor positive allosteric modulators. *Journal of Medicinal Chemistry*, **2011**, 54, 78-94	8.3	53
23	Identification of 2-(4-pyridyl)thienopyridinones as GSK-3 inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4823-7	2.9	17
22	Challenges for and current status of research into positive modulators of AMPA receptors. *British Journal of Pharmacology*, **2010**, 160, 181-90	8.6	54
21	Structural basis of quinolone inhibition of type IIA topoisomerases and target-mediated resistance. *Nature Structural and Molecular Biology*, **2010**, 17, 1152-3	17.6	203
20	Type IIA topoisomerase inhibition by a new class of antibacterial agents. *Nature*, **2010**, 466, 935-40	50.4	509
19	Discovery of N-[(2S)-5-(6-fluoro-3-pyridinyl)-2,3-dihydro-1H-inden-2-yl]-2-propanesulfonamide, a novel clinical AMPA receptor positive modulator. *Journal of Medicinal Chemistry*, **2010**, 53, 5801-12	8.3	42
18	1-Aryl-3,4-dihydroisoquinoline inhibitors of JNK3. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2230-4	2.9	29
17	The structure of MSK1 reveals a novel autoinhibitory conformation for a dual kinase protein. *Structure*, **2004**, 12, 1067-77	5.2	42
16	The three-dimensional structure of cytosolic bovine retinal creatine kinase. *Acta Crystallographica Section D: Biological Crystallography*, **2001**, 57, 187-93		24
15	The structure of phosphorylated GSK-3beta complexed with a peptide, FRATtide, that inhibits beta-catenin phosphorylation. *Structure*, **2001**, 9, 1143-52	5.2	163
14	GSK-3 inhibition by adenoviral FRAT1 overexpression is neuroprotective and induces Tau dephosphorylation and beta-catenin stabilisation without elevation of glycogen synthase activity. *FEBS Letters*, **2001**, 507, 288-94	3.8	76
13	ADP ribosylation factor 1 mutants identify a phospholipase D effector region and reveal that phospholipase D participates in lysosomal secretion but is not sufficient for recruitment of coatomer I. *Biochemical Journal*, **1999**, 341, 185	3.8	19

12	Purification, crystallization and preliminary crystallographic analysis of bovine cytosolic brain-type creatine kinase. *Acta Crystallographica Section D: Biological Crystallography*, **1998**, 54, 989-90		1
11	Common themes and surprising differences in small G-proteins. *Biochemical Society Transactions*, **1997**, 25, 989-91	5.1	
10	Structure of mouse 7S NGF: a complex of nerve growth factor with four binding proteins. *Structure*, **1997**, 5, 1275-85	5.2	55
9	Structural aspects of the functional modules in human protein kinase-C alpha deduced from comparative analyses. *Proteins: Structure, Function and Bioinformatics*, **1996**, 26, 217-35	4.2	23
8	The structure of rat ADP-ribosylation factor-1 (ARF-1) complexed to GDP determined from two different crystal forms. *Nature Structural and Molecular Biology*, **1995**, 2, 797-806	17.6	94
7	Protein-protein interactions. Putting the pieces together. *Current Biology*, **1995**, 5, 1119-21	6.3	8
6	Crystallization and preliminary X-ray diffraction studies on ADP-ribosylation factor 1. *Journal of Molecular Biology*, **1994**, 244, 651-3	6.5	2
5	Close packing of an oligomeric eye lens beta-crystallin induces loss of symmetry and ordering of sequence extensions. *Journal of Molecular Biology*, **1994**, 236, 1250-8	6.5	42
4	Prediction of the three-dimensional structures of the nerve growth factor and epidermal growth factor binding proteins (kallikreins) and an hypothetical structure of the high molecular weight complex of epidermal growth factor with its binding protein. *Protein Science*, **1993**, 2, 1229-41	6.3	11
3	High resolution structure of an oligomeric eye lens beta-crystallin. Loops, arches, linkers and interfaces in beta B2 dimer compared to a monomeric gamma-crystallin. *Journal of Molecular Biology*, **1991**, 222, 1067-83	6.5	81
2	Crystallization of a new form of the eye lens protein beta B2-crystallin. *Journal of Molecular Biology*, **1989**, 208, 715-7	6.5	15
1	Evolutionary and functional relationships between the basic and acidic beta-crystallins. *Experimental Eye Research*, **1988**, 46, 375-403	3.7	46