Daniel N A Bolon

List of Publications by Year in Descending Order

34 papers	1,225 citations	18 h-index	35 g-index
48 ext. papers	1,627 ext. citations	7.4 avg, IF	4.63 L-index

#	Paper	IF	Citations
34	Identification of a permissive secondary mutation that restores the enzymatic activity of oseltamivir resistance mutation H275Y.. *Journal of Virology*, **2022**, jvi0198221	6.6	
33	The Adaptive Potential of the Middle Domain of Yeast Hsp90. *Molecular Biology and Evolution*, **2021** , 38, 368-379	8.3	0
32	Analyses of HIV proteases variants at the threshold of viability reveals relationships between processing efficiency and fitness.. *Virus Evolution*, **2021**, 7, veab103	3.7	0
31	Comprehensive fitness maps of Hsp90 show widespread environmental dependence. *ELife*, **2020**, 9,	8.9	18
30	Constrained Mutational Sampling of Amino Acids in HIV-1 Protease Evolution. *Molecular Biology and Evolution*, **2019**, 36, 798-810	8.3	5
29	Picomolar to Micromolar: Elucidating the Role of Distal Mutations in HIV-1 Protease in Conferring Drug Resistance. *ACS Chemical Biology*, **2019**, 14, 2441-2452	4.9	19
28	Mutations in Influenza A Virus Neuraminidase and Hemagglutinin Confer Resistance against a Broadly Neutralizing Hemagglutinin Stem Antibody. *Journal of Virology*, **2019**, 93,	6.6	18
27	Pervasive contingency and entrenchment in a billion years of Hsp90 evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4453-4458	11.5	52
26	Synonymous Mutations at the Beginning of the Influenza A Virus Hemagglutinin Gene Impact Experimental Fitness. *Journal of Molecular Biology*, **2018**, 430, 1098-1115	6.5	9
25	Evolutionary mechanisms studied through protein fitness landscapes. *Current Opinion in Structural Biology*, **2018**, 48, 141-148	8.1	17
24	A synthetic biology approach to probing nucleosome symmetry. *ELife*, **2017**, 6,	8.9	10
23	A Balance between Inhibitor Binding and Substrate Processing Confers Influenza Drug Resistance. *Journal of Molecular Biology*, **2016**, 428, 538-553	6.5	26
22	Saturation Mutagenesis of the HIV-1 Envelope CD4 Binding Loop Reveals Residues Controlling Distinct Trimer Conformations. *PLoS Pathogens*, **2016**, 12, e1005988	7.6	11
21	Quantifying and understanding the fitness effects of protein mutations: Laboratory versus nature. *Protein Science*, **2016**, 25, 1219-26	6.3	56
20	An experimental evaluation of drug-induced mutational meltdown as an antiviral treatment strategy. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 2470-2484	3.8	21
19	Systematic Mutant Analyses Elucidate General and Client-Specific Aspects of Hsp90 Function. *Cell Reports*, **2016**, 15, 588-598	10.6	54
18	Mechanistic Asymmetry in Hsp90 Dimers. *Journal of Molecular Biology*, **2015**, 427, 2904-11	6.5	19

List of Publications

17	A systematic survey of an intragenic epistatic landscape. *Molecular Biology and Evolution*, **2015**, 32, 229-38	8.3	85
16	Designed Hsp90 heterodimers reveal an asymmetric ATPase-driven mechanism in vivo. *Molecular Cell*, **2014**, 53, 344-50	17.6	35
15	Viewing protein fitness landscapes through a next-gen lens. *Genetics*, **2014**, 198, 461-71	4	39
14	Alanine scan of core positions in ubiquitin reveals links between dynamics, stability, and function. *Journal of Molecular Biology*, **2014**, 426, 1377-89	6.5	17
13	Systematic exploration of ubiquitin sequence, E1 activation efficiency, and experimental fitness in yeast. *Journal of Molecular Biology*, **2014**, 426, 2854-70	6.5	32
12	Shifting fitness landscapes in response to altered environments. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 3512-22	3.8	87
11	Analyses of the effects of all ubiquitin point mutants on yeast growth rate. *Journal of Molecular Biology*, **2013**, 425, 1363-77	6.5	147
10	Latent effects of Hsp90 mutants revealed at reduced expression levels. *PLoS Genetics*, **2013**, 9, e1003600	6	62
9	Posttranslational modification and conformational state of heat shock protein 90 differentially affect binding of chemically diverse small molecule inhibitors. *Oncotarget*, **2013**, 4, 1065-74	3.3	46
8	Hydrophobic core flexibility modulates enzyme activity in HIV-1 protease. *Journal of the American Chemical Society*, **2012**, 134, 4163-8	16.4	50
7	Bound for observation. *Journal of Molecular Biology*, **2012**, 415, 1-2	6.5	
6	Fitness analyses of all possible point mutations for regions of genes in yeast. *Nature Protocols*, **2012**, 7, 1382-96	18.8	52
5	Solubility-promoting function of Hsp90 contributes to client maturation and robust cell growth. *Eukaryotic Cell*, **2012**, 11, 1033-41		10
4	Experimental illumination of a fitness landscape. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7896-901	11.5	212
3	Comprehensive fitness landscape of SARS-CoV-2 Mpro reveals insights into viral resistance mechanisms		1
2	Comprehensive fitness maps of Hsp90 show widespread environmental dependence		2
1	Pervasive contingency and entrenchment in a billion years of Hsp90 evolution		1