

Daniel N A Bolon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Experimental illumination of a fitness landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7896-901	11.5	212
33	Analyses of the effects of all ubiquitin point mutants on yeast growth rate. <i>Journal of Molecular Biology</i> , 2013 , 425, 1363-77	6.5	147
32	Shifting fitness landscapes in response to altered environments. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 3512-22	3.8	87
31	A systematic survey of an intragenic epistatic landscape. <i>Molecular Biology and Evolution</i> , 2015 , 32, 229-333	3.3	85
30	Latent effects of Hsp90 mutants revealed at reduced expression levels. <i>PLoS Genetics</i> , 2013 , 9, e1003606	6.6	62
29	Quantifying and understanding the fitness effects of protein mutations: Laboratory versus nature. <i>Protein Science</i> , 2016 , 25, 1219-26	6.3	56
28	Systematic Mutant Analyses Elucidate General and Client-Specific Aspects of Hsp90 Function. <i>Cell Reports</i> , 2016 , 15, 588-598	10.6	54
27	Pervasive contingency and entrenchment in a billion years of Hsp90 evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4453-4458	11.5	52
26	Fitness analyses of all possible point mutations for regions of genes in yeast. <i>Nature Protocols</i> , 2012 , 7, 1382-96	18.8	52
25	Hydrophobic core flexibility modulates enzyme activity in HIV-1 protease. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4163-8	16.4	50
24	Posttranslational modification and conformational state of heat shock protein 90 differentially affect binding of chemically diverse small molecule inhibitors. <i>Oncotarget</i> , 2013 , 4, 1065-74	3.3	46
23	Viewing protein fitness landscapes through a next-gen lens. <i>Genetics</i> , 2014 , 198, 461-71	4	39
22	Designed Hsp90 heterodimers reveal an asymmetric ATPase-driven mechanism in vivo. <i>Molecular Cell</i> , 2014 , 53, 344-50	17.6	35
21	Systematic exploration of ubiquitin sequence, E1 activation efficiency, and experimental fitness in yeast. <i>Journal of Molecular Biology</i> , 2014 , 426, 2854-70	6.5	32
20	A Balance between Inhibitor Binding and Substrate Processing Confers Influenza Drug Resistance. <i>Journal of Molecular Biology</i> , 2016 , 428, 538-553	6.5	26
19	An experimental evaluation of drug-induced mutational meltdown as an antiviral treatment strategy. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 2470-2484	3.8	21
18	Mechanistic Asymmetry in Hsp90 Dimers. <i>Journal of Molecular Biology</i> , 2015 , 427, 2904-11	6.5	19

17	Picomolar to Micromolar: Elucidating the Role of Distal Mutations in HIV-1 Protease in Conferring Drug Resistance. <i>ACS Chemical Biology</i> , 2019 , 14, 2441-2452	4.9	19
16	Comprehensive fitness maps of Hsp90 show widespread environmental dependence. <i>ELife</i> , 2020 , 9,	8.9	18
15	Mutations in Influenza A Virus Neuraminidase and Hemagglutinin Confer Resistance against a Broadly Neutralizing Hemagglutinin Stem Antibody. <i>Journal of Virology</i> , 2019 , 93,	6.6	18
14	Evolutionary mechanisms studied through protein fitness landscapes. <i>Current Opinion in Structural Biology</i> , 2018 , 48, 141-148	8.1	17
13	Alanine scan of core positions in ubiquitin reveals links between dynamics, stability, and function. <i>Journal of Molecular Biology</i> , 2014 , 426, 1377-89	6.5	17
12	Saturation Mutagenesis of the HIV-1 Envelope CD4 Binding Loop Reveals Residues Controlling Distinct Trimer Conformations. <i>PLoS Pathogens</i> , 2016 , 12, e1005988	7.6	11
11	Solubility-promoting function of Hsp90 contributes to client maturation and robust cell growth. <i>Eukaryotic Cell</i> , 2012 , 11, 1033-41		10
10	A synthetic biology approach to probing nucleosome symmetry. <i>ELife</i> , 2017 , 6,	8.9	10
9	Synonymous Mutations at the Beginning of the Influenza A Virus Hemagglutinin Gene Impact Experimental Fitness. <i>Journal of Molecular Biology</i> , 2018 , 430, 1098-1115	6.5	9
8	Constrained Mutational Sampling of Amino Acids in HIV-1 Protease Evolution. <i>Molecular Biology and Evolution</i> , 2019 , 36, 798-810	8.3	5
7	Comprehensive fitness maps of Hsp90 show widespread environmental dependence		2
6	Comprehensive fitness landscape of SARS-CoV-2 Mpro reveals insights into viral resistance mechanisms		1
5	Pervasive contingency and entrenchment in a billion years of Hsp90 evolution		1
4	The Adaptive Potential of the Middle Domain of Yeast Hsp90. <i>Molecular Biology and Evolution</i> , 2021 , 38, 368-379	8.3	0
3	Analyses of HIV proteases variants at the threshold of viability reveals relationships between processing efficiency and fitness.. <i>Virus Evolution</i> , 2021 , 7, veab103	3.7	0
2	Bound for observation. <i>Journal of Molecular Biology</i> , 2012 , 415, 1-2	6.5	
1	Identification of a permissive secondary mutation that restores the enzymatic activity of oseltamivir resistance mutation H275Y.. <i>Journal of Virology</i> , 2022 , jvi0198221	6.6	