Ester Lazaro

List of Publications by Year
in descending order

46 papers	1,389 citations	394421 19 h-index	345221 36 g-index
48 all docs	48 docs citations	48 times ranked	1069 citing authors

#	Article	IF	Citations
1	Propagation of an RNA Bacteriophage at Low Host Density Leads to a More Efficient Virus Entry. Frontiers in Virology, 2022, 2, .	1.4	1
2	Intra-Population Competition during Adaptation to Increased Temperature in an RNA Bacteriophage. International Journal of Molecular Sciences, 2021, 22, 6815.	4.1	5
3	Intra-population Interactions and the Evolution of RNA Phages. , 2020, , 239-260.		1
4	Evolutionary Dynamics in the RNA Bacteriophage QÎ² Depends on the Pattern of Change in Selective Pressures. Pathogens, 2019, 8, 80.	2.8	8
5	Differences in adaptive dynamics determine the success of virus variants that propagate together. Virus Evolution, 2018, 4, vex043.	4.9	11
6	Evolutionary adaptation of an RNA bacteriophage to the simultaneous increase in the within-host and extracellular temperatures. Scientific Reports, 2018, 8, 8080.	3.3	13
7	Impact of increased mutagenesis on adaptation to high temperature in bacteriophage QÎ². Virology, 2016, 497, 163-170.	2.4	12
8	Getting to Know Viral Evolutionary Strategies: Towards the Next Generation of Quasispecies Models. Current Topics in Microbiology and Immunology, 2015, 392, 201-217.	1.1	5
9	Adaptation to Fluctuating Temperatures in an RNA Virus Is Driven by the Most Stringent Selective Pressure. PLoS ONE, 2014, 9, e100940.	2.5	18
10	Changes in Protein Domains outside the Catalytic Site of the Bacteriophage QÂ Replicase Reduce the Mutagenic Effect of 5-Azacytidine. Journal of Virology, 2014, 88, 10480-10487.	3.4	6
11	RNA virus evolution at variable error rate. Future Virology, 2014, 9, 665-677.	1.8	1
12	Evolution at increased error rate leads to the coexistence of multiple adaptive pathways in an RNA virus. BMC Evolutionary Biology, 2013, 13, 11.	3.2	26
13	Biomedical implications of viral mutation and evolution. Future Virology, 2012, 7, 391-402.	1.8	4
14	Identification of mutations conferring 5-azacytidine resistance in bacteriophage QÎ². Virology, 2011, 417, 343-352.	2.4	19
15	Phenotypic effect of mutations in evolving populations of RNA molecules. BMC Evolutionary Biology, 2010, 10, 46.	3.2	22
16	Variable Mutation Rates as an Adaptive Strategy in Replicator Populations. PLoS ONE, 2010, 5, e11186.	2.5	18
17	Pathways to extinction: beyond the error threshold. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1943-1952.	4.0	57
18	Populations of RNA Molecules as Computational Model for Evolution. , 2010, , 67-79.		0

#	Article	IF	Citations
19	A trade-off between neutrality and adaptability limits the optimization of viral quasispecies. Journal of Theoretical Biology, 2009, 261, 148-155.	1.7	17
20	Repeated Bottleneck Transfers Can Lead to Non-cytocidal Forms of a Cytopathic Virus: Implications for Viral Extinction. Journal of Molecular Biology, 2008, 376, 367-379.	4.2	41
21	Beneficial Effects of Population Bottlenecks in an RNA Virus Evolving at Increased Error Rate. Journal of Molecular Biology, 2008, 384, 1120-1129.	4.2	33
22	Analysis of Ribavirin Mutagenicity in Human Hepatitis C Virus Infection. Journal of Virology, 2007, 81, 7732-7741.	3.4	82
23	Geomarkers<i>versus</i>Biomarkers: Paleoenvironmental and Astrobiological Significance. Ambio, 2007, 36, 425-426.	5.5	6
24	Genetic Variability in RNA Viruses: Consequences in Epidemiology and in the Development of New Stratgies for the Extinction of Infectivity. Biological and Medical Physics Series, 2007, , 341-362.	0.4	1
25	Viral evolution. Physics of Life Reviews, 2006, 3, 65-92.	2.8	48
26	Population Bottlenecks in Quasispecies Dynamics. , 2006, 299, 141-170.		67
27	Reconstructing evolutionary relationships from functional data: a consistent classification of organisms based on translation inhibition response. Molecular Phylogenetics and Evolution, 2005, 34, 371-381.	2.7	15
28	Suppression of viral infectivity through lethal defection. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4448-4452.	7.1	170
29	High mutation rates, bottlenecks, and robustness of RNA viral quasispecies. Gene, 2005, 347, 273-282.	2.2	84
30	Quasispecies dynamics and RNA virus extinction. Virus Research, 2005, 107, 129-139.	2.2	93
31	Effect of metallic cations on the efficiency of DNA amplification. Implications for nucleic acid replication during early stages of life. International Journal of Astrobiology, 2005, 4, 115.	1.6	3
32	Supercritical branching processes and the role of fluctuations under exponential population growth. Journal of Theoretical Biology, 2003, 225, 497-505.	1.7	1
33	Resistance of virus to extinction on bottleneck passages: Study of a decaying and fluctuating pattern of fitness loss. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10830-10835.	7.1	109
34	Fitness Distributions in Exponentially Growing Asexual Populations. Physical Review Letters, 2003, 90, 188102.	7.8	33
35	Modeling Viral Genome Fitness Evolution Associated with Serial Bottleneck Events: Evidence of Stationary States of Fitness. Journal of Virology, 2002, 76, 8675-8681.	3.4	58
36	Characterization of Sparsomycin Resistance in Streptomyces sparsogenes. Antimicrobial Agents and Chemotherapy, 2002, 46, 2914-2919.	3.2	2

#	Article	IF	Citations
37	Resistance to extinction of low fitness virus subjected to plaque-to-plaque transfers: diversification by mutation clustering 1 1Edited by J. Karn. Journal of Molecular Biology, 2002, 315, 647-661.	4.2	73
38	Molecular intermediates of fitness gain of an RNA virus: characterization of a mutant spectrum by biological and molecular cloning. Journal of General Virology, 2001, 82, 1049-1060.	2.9	77
39	A Sparsomycin-resistant Mutant ofHalobacterium salinariumLacks a Modification at Nucleotide U2603 in the Peptidyl Transferase Centre of 23 S rRNA. Journal of Molecular Biology, 1996, 261, 231-238.	4.2	42
40	Synthesis of sparsomycin derivatives, addressing its binding to the large ribosomal subunit. Recueil Des Travaux Chimiques Des Pays-Bas, 1992, 111, 163-169.	0.0	3
41	Chemical, biochemical and genetic endeavours characterizing the interaction of sparsomycin with the ribosome. Biochimie, 1991, 73, 1137-1143.	2.6	10
42	Interaction of the antibiotic sparsomycin with the ribosome. Antimicrobial Agents and Chemotherapy, 1991, 35, 10-13.	3.2	13
43	Biochemical and kinetic characteristics of the interaction of the antitumor antibiotic sparsomycin with prokaryotic and eukaryotic ribosomes. Biochemistry, 1991, 30, 9642-9648.	2.5	31
44	The role of the hydroxymethyl function on the biological activity of the antitumor antibiotic sparsomycin. European Journal of Medicinal Chemistry, 1989, 24, 503-510.	5.5	9
45	Lipophilic analogs of sparsomycin as strong inhibitors of protein synthesis and tumor growth: a structure-activity relationship study. Journal of Medicinal Chemistry, 1989, 32, 2002-2015.	6.4	34
46	Structure-activity relationships of sparsomycin: modification at the hydroxyl group. Biochimie, 1987, 69, 849-856.	2.6	6