

Celia Belen Perales Viejo

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,683
citations

168829

31
h-index

169272

56
g-index

100
all docs

100
docs citations

100
times ranked

4281
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Guanosine inhibits hepatitis C virus replication and increases indel frequencies, associated with altered intracellular nucleotide pools. <i>PLoS Pathogens</i> , 2022, 18, e1010210. | 2.1 | 3 |
| 2 | SARS-CoV-2 Point Mutation and Deletion Spectra and Their Association with Different Disease Outcomes. <i>Microbiology Spectrum</i> , 2022, 10, e0022122. | 1.2 | 10 |
| 3 | Vaccine breakthrough infections with SARS-CoV-2 Alpha mirror mutations in Delta Plus, Iota, and Omicron. <i>Journal of Clinical Investigation</i> , 2022, 132, . | 3.9 | 10 |
| 4 | In vitro Selection of High Affinity DNA and RNA Aptamers that Detect Hepatitis C Virus Core Protein of Genotypes 1 to 4 and Inhibit Virus Production in Cell Culture. <i>Journal of Molecular Biology</i> , 2022, 434, 167501. | 2.0 | 13 |
| 5 | SARS-CoV-2 Mutant Spectra at Different Depth Levels Reveal an Overwhelming Abundance of Low Frequency Mutations. <i>Pathogens</i> , 2022, 11, 662. | 1.2 | 16 |
| 6 | The Time for COVID-19 Vaccination. <i>Journal of Virology</i> , 2021, 95, . | 1.5 | 8 |
| 7 | Population Disequilibrium as Promoter of Adaptive Explorations in Hepatitis C Virus. <i>Viruses</i> , 2021, 13, 616. | 1.5 | 7 |
| 8 | Partial restoration of immune response in Hepatitis C patients after viral clearance by direct-acting antiviral therapy. <i>PLoS ONE</i> , 2021, 16, e0254243. | 1.1 | 6 |
| 9 | Mutation Rates, Mutation Frequencies, and Proofreading-Repair Activities in RNA Virus Genetics. <i>Viruses</i> , 2021, 13, 1882. | 1.5 | 66 |
| 10 | High SARS-CoV-2 viral load is associated with a worse clinical outcome of COVID-19 disease. <i>Access Microbiology</i> , 2021, 3, 000259. | 0.2 | 13 |
| 11 | Historical Perspective on the Discovery of the Quasispecies Concept. <i>Annual Review of Virology</i> , 2021, 8, 51-72. | 3.0 | 35 |
| 12 | Akt Phosphorylation of Hepatitis C Virus NS5B Regulates Polymerase Activity and Hepatitis C Virus Infection. <i>Frontiers in Microbiology</i> , 2021, 12, 754664. | 1.5 | 2 |
| 13 | Study of Quasispecies Complexity and Liver Damage Progression after Liver Transplantation in Hepatitis C Virus Infected Patients. <i>Genes</i> , 2021, 12, 1731. | 1.0 | 0 |
| 14 | A Two-Level, Intramutant Spectrum Haplotype Profile of Hepatitis C Virus Revealed by Self-Organized Maps. <i>Microbiology Spectrum</i> , 2021, 9, e0145921. | 1.2 | 8 |
| 15 | Quasispecies dynamics and clinical significance of hepatitis C virus (HCV) antiviral resistance. <i>International Journal of Antimicrobial Agents</i> , 2020, 56, 105562. | 1.1 | 14 |
| 16 | Deep-sequencing reveals broad subtype-specific HCV resistance mutations associated with treatment failure. <i>Antiviral Research</i> , 2020, 174, 104694. | 1.9 | 39 |
| 17 | Amino Acid Substitutions Associated with Treatment Failure for Hepatitis C Virus Infection. <i>Journal of Clinical Microbiology</i> , 2020, 58, . | 1.8 | 15 |
| 18 | Dissimilar Conservation Pattern in Hepatitis C Virus Mutant Spectra, Consensus Sequences, and Data Banks. <i>Journal of Clinical Medicine</i> , 2020, 9, 3450. | 1.0 | 12 |

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|----|--|-----|-----------|
| 19 | Broad and Dynamic Diversification of Infectious Hepatitis C Virus in a Cell Culture Environment. <i>Journal of Virology</i> , 2020, 94, . | 1.5 | 20 |
| 20 | A new implication of quasispecies dynamics: Broad virus diversification in absence of external perturbations. <i>Infection, Genetics and Evolution</i> , 2020, 82, 104278. | 1.0 | 20 |
| 21 | The archaeology of coding RNA. <i>Annals of the New York Academy of Sciences</i> , 2019, 1447, 119-134. | 1.8 | 10 |
| 22 | Viral quasispecies. <i>PLoS Genetics</i> , 2019, 15, e1008271. | 1.5 | 220 |
| 23 | Viral fitness: history and relevance for viral pathogenesis and antiviral interventions. <i>Pathogens and Disease</i> , 2019, 77, . | 0.8 | 36 |
| 24 | Extracellular vesicles: Vehicles of en bloc viral transmission. <i>Virus Research</i> , 2019, 265, 143-149. | 1.1 | 58 |
| 25 | The increasing impact of lethal mutagenesis of viruses. <i>Future Medicinal Chemistry</i> , 2019, 11, 1645-1657. | 1.1 | 30 |
| 26 | Synergistic Lethal Mutagenesis of Hepatitis C Virus. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, . | 1.4 | 10 |
| 27 | Quasispecies and virus. <i>European Biophysics Journal</i> , 2018, 47, 443-457. | 1.2 | 51 |
| 28 | Pipeline for specific subtype amplification and drug resistance detection in hepatitis C virus. <i>BMC Infectious Diseases</i> , 2018, 18, 446. | 1.3 | 29 |
| 29 | Baseline hepatitis C virus resistance-associated substitutions present at frequencies lower than 15% may be clinically significant. <i>Infection and Drug Resistance</i> , 2018, Volume 11, 2207-2210. | 1.1 | 26 |
| 30 | Rare haplotype load as marker for lethal mutagenesis. <i>PLoS ONE</i> , 2018, 13, e0204877. | 1.1 | 8 |
| 31 | Contribution of a Multifunctional Polymerase Region of Foot-and-Mouth Disease Virus to Lethal Mutagenesis. <i>Journal of Virology</i> , 2018, 92, . | 1.5 | 5 |
| 32 | Hepatitis C virus early kinetics and resistance-associated substitution dynamics during antiviral therapy with direct-acting antivirals. <i>Journal of Viral Hepatitis</i> , 2018, 25, 1515-1525. | 1.0 | 10 |
| 33 | Resistance of high fitness hepatitis C virus to lethal mutagenesis. <i>Virology</i> , 2018, 523, 100-109. | 1.1 | 30 |
| 34 | New hepatitis C virus genotype 1 subtype naturally harbouring resistance-associated mutations to NS5A inhibitors. <i>Journal of General Virology</i> , 2018, 99, 97-102. | 1.3 | 6 |
| 35 | Internal Disequilibria and Phenotypic Diversification during Replication of Hepatitis C Virus in a Noncoevolving Cellular Environment. <i>Journal of Virology</i> , 2017, 91, . | 1.5 | 42 |
| 36 | Molecular and Functional Bases of Selection against a Mutation Bias in an RNA Virus. <i>Genome Biology and Evolution</i> , 2017, 9, 1212-1228. | 1.1 | 13 |

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|----|--|-----|-----------|
| 37 | Favipiravir can evoke lethal mutagenesis and extinction of foot-and-mouth disease virus. <i>Virus Research</i> , 2017, 233, 105-112. | 1.1 | 32 |
| 38 | Deep sequencing in the management of hepatitis virus infections. <i>Virus Research</i> , 2017, 239, 115-125. | 1.1 | 23 |
| 39 | Quasispecies Dynamics Taught by Natural and Experimental Evolution of Foot-and-mouth Disease Virus. , 2017, , 147-170. | | 1 |
| 40 | Quasispecies and Drug Resistance. , 2017, , 123-147. | | 2 |
| 41 | Lethal Mutagenesis of Hepatitis C Virus Induced by Favipiravir. <i>PLoS ONE</i> , 2016, 11, e0164691. | 1.1 | 63 |
| 42 | Hepatitis C Virus RNA-Dependent RNA Polymerase Interacts with the Akt/PKB Kinase and Induces Its Subcellular Relocalization. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 3540-3550. | 1.4 | 7 |
| 43 | Viral Quasispecies and Lethal Mutagenesis. <i>European Review</i> , 2016, 24, 39-48. | 0.4 | 1 |
| 44 | Barrier-Independent, Fitness-Associated Differences in Sofosbuvir Efficacy against Hepatitis C Virus. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 3786-3793. | 1.4 | 42 |
| 45 | Viral quasispecies complexity measures. <i>Virology</i> , 2016, 493, 227-237. | 1.1 | 109 |
| 46 | Distance effects during polyprotein processing in the complementation between defective FMDV RNAs. <i>Journal of General Virology</i> , 2016, 97, 1575-1583. | 1.3 | 1 |
| 47 | An Efficient Microarray-Based Genotyping Platform for the Identification of Drug-Resistance Mutations in Majority and Minority Subpopulations of HIV-1 Quasispecies. <i>PLoS ONE</i> , 2016, 11, e0166902. | 1.1 | 7 |
| 48 | New real-time-PCR method to identify single point mutations in hepatitis C virus. <i>World Journal of Gastroenterology</i> , 2016, 22, 9604. | 1.4 | 5 |
| 49 | Resistance of Hepatitis C Virus to Inhibitors: Complexity and Clinical Implications. <i>Viruses</i> , 2015, 7, 5746-5766. | 1.5 | 44 |
| 50 | Hepatitis C virus-mediated Aurora B kinase inhibition modulates inflammatory pathway and viral infectivity. <i>Journal of Hepatology</i> , 2015, 63, 312-319. | 1.8 | 17 |
| 51 | Multifunctionality of a Picornavirus Polymerase Domain: Nuclear Localization Signal and Nucleotide Recognition. <i>Journal of Virology</i> , 2015, 89, 6848-6859. | 1.5 | 22 |
| 52 | Antiviral Strategies Based on Lethal Mutagenesis and Error Threshold. <i>Current Topics in Microbiology and Immunology</i> , 2015, 392, 323-339. | 0.7 | 41 |
| 53 | Clonality and intracellular polyploidy in virus evolution and pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8887-8892. | 3.3 | 26 |
| 54 | High-Resolution Hepatitis C Virus Subtyping Using NS5B Deep Sequencing and Phylogeny, an Alternative to Current Methods. <i>Journal of Clinical Microbiology</i> , 2015, 53, 219-226. | 1.8 | 74 |

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|----|--|-----|-----------|
| 55 | Quasispecies and Drug Resistance. , 2014, , 1-22. | | 0 |
| 56 | Identification of host and viral factors involved in a dissimilar resolution of a hepatitis C virus infection. <i>Liver International</i> , 2014, 34, 896-906. | 1.9 | 10 |
| 57 | Molecular basis of interferon resistance in hepatitis C virus. <i>Current Opinion in Virology</i> , 2014, 8, 38-44. | 2.6 | 22 |
| 58 | Increased Replicative Fitness Can Lead to Decreased Drug Sensitivity of Hepatitis C Virus. <i>Journal of Virology</i> , 2014, 88, 12098-12111. | 1.5 | 74 |
| 59 | Exploration of sequence space as the basis of viral RNA genome segmentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6678-6683. | 3.3 | 29 |
| 60 | Response of Hepatitis C Virus to Long-Term Passage in the Presence of Alpha Interferon: Multiple Mutations and a Common Phenotype. <i>Journal of Virology</i> , 2013, 87, 7593-7607. | 1.5 | 88 |
| 61 | Extinction of Hepatitis C Virus by Ribavirin in Hepatoma Cells Involves Lethal Mutagenesis. <i>PLoS ONE</i> , 2013, 8, e71039. | 1.1 | 60 |
| 62 | Ultra-Deep Pyrosequencing (UDPS) Data Treatment to Study Amplicon HCV Minor Variants. <i>PLoS ONE</i> , 2013, 8, e83361. | 1.1 | 54 |
| 63 | From Quasispecies Theory to Viral Quasispecies: How Complexity has Permeated Virology. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 105-122. | 0.9 | 30 |
| 64 | The impact of quasispecies dynamics on the use of therapeutics. <i>Trends in Microbiology</i> , 2012, 20, 595-603. | 3.5 | 48 |
| 65 | Viral Quasispecies Evolution. <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 159-216. | 2.9 | 811 |
| 66 | Lethal mutagenesis of viruses. <i>Current Opinion in Virology</i> , 2011, 1, 419-422. | 2.6 | 29 |
| 67 | Tempo and mode of inhibitorâ€™ mutagen antiviral therapies: A multidisciplinary approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16008-16013. | 3.3 | 38 |
| 68 | Influence of Mutagenesis and Viral Load on the Sustained Low-Level Replication of an RNA Virus. <i>Journal of Molecular Biology</i> , 2011, 407, 60-78. | 2.0 | 25 |
| 69 | Quasispecies as a matter of fact: Viruses and beyond. <i>Virus Research</i> , 2011, 162, 203-215. | 1.1 | 65 |
| 70 | Viral Genome Segmentation Can Result from a Trade-Off between Genetic Content and Particle Stability. <i>PLoS Genetics</i> , 2011, 7, e1001344. | 1.5 | 95 |
| 71 | Lethal Mutagenesis of Foot-and-Mouth Disease Virus Involves Shifts in Sequence Space. <i>Journal of Virology</i> , 2011, 85, 12227-12240. | 1.5 | 26 |
| 72 | A Multi-Step Process of Viral Adaptation to a Mutagenic Nucleoside Analogue by Modulation of Transition Types Leads to Extinction-Escape. <i>PLoS Pathogens</i> , 2010, 6, e1001072. | 2.1 | 83 |

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|----|---|-----|-----------|
| 73 | Mutant spectra in virus behavior. <i>Future Virology</i> , 2010, 5, 679-698. | 0.9 | 26 |
| 74 | Deletion Mutants of VPg Reveal New Cytopathology Determinants in a Picornavirus. <i>PLoS ONE</i> , 2010, 5, e10735. | 1.1 | 19 |
| 75 | Counteracting Quasispecies Adaptability: Extinction of a Ribavirin-Resistant Virus Mutant by an Alternative Mutagenic Treatment. <i>PLoS ONE</i> , 2009, 4, e5554. | 1.1 | 36 |
| 76 | Potential Benefits of Sequential Inhibitor-Mutagen Treatments of RNA Virus Infections. <i>PLoS Pathogens</i> , 2009, 5, e1000658. | 2.1 | 68 |
| 77 | Biological Effect of Muller's Ratchet: Distant Capsid Site Can Affect Picornavirus Protein Processing. <i>Journal of Virology</i> , 2009, 83, 6748-6756. | 1.5 | 29 |
| 78 | Viral Quasispecies: Dynamics, Interactions, and Pathogenesis**Dedicated to Manfred Eigen on the occasion of his 80th birthday, for the insights that his pioneer studies have represented for virology.. , 2008, , 87-118. | | 27 |
| 79 | Molecular Characterization of a Dual Inhibitory and Mutagenic Activity of 5-Fluorouridine Triphosphate on Viral RNA Synthesis. Implications for Lethal Mutagenesis. <i>Journal of Molecular Biology</i> , 2008, 382, 652-666. | 2.0 | 41 |
| 80 | Persistence of foot-and-mouth disease virus in cell culture revisited: implications for contingency in evolution. <i>Journal of General Virology</i> , 2008, 89, 232-244. | 1.3 | 25 |
| 81 | Insights into RNA Virus Mutant Spectrum and Lethal Mutagenesis Events: Replicative Interference and Complementation by Multiple Point Mutants. <i>Journal of Molecular Biology</i> , 2007, 369, 985-1000. | 2.0 | 93 |
| 82 | Viral Fitness Can Influence the Repertoire of Virus Variants Selected by Antibodies. <i>Journal of Molecular Biology</i> , 2006, 362, 44-54. | 2.0 | 13 |
| 83 | Microarray-based identification of antigenic variants of foot-and-mouth disease virus: a bioinformatics quality assessment. <i>BMC Genomics</i> , 2006, 7, 117. | 1.2 | 16 |
| 84 | Regulation of HIV-1 env mRNA translation by Rev protein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1743, 169-175. | 1.9 | 34 |
| 85 | Monitoring Sequence Space as a Test for the Target of Selection in Viruses. <i>Journal of Molecular Biology</i> , 2005, 345, 451-459. | 2.0 | 28 |
| 86 | Cleavage of eIF4G by HIV-1 protease: effects on translation. <i>FEBS Letters</i> , 2003, 533, 89-94. | 1.3 | 49 |
| 87 | Enhancement of DNA, cDNA synthesis and fidelity at high temperatures by a dimeric single-stranded DNA-binding protein. <i>Nucleic Acids Research</i> , 2003, 31, 6473-6480. | 6.5 | 45 |
| 88 | HIV-1 protease cleaves eukaryotic initiation factor 4G and inhibits cap-dependent translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12966-12971. | 3.3 | 115 |
| 89 | Mutation, Quasispecies, and Lethal Mutagenesis. , 0, , 195-211. | | 0 |