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Modeling Mosquito-Borne Disease Spread in U.S. Urbanized Areas: The Case of Dengue in Miami

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#	Paper	IF	Citations
32	Estimating the subcritical transmissibility of the Zika outbreak in the State of Florida, USA, 2016. <i>Theoretical Biology and Medical Modelling</i> , 2016 , 13, 20	2.3	27
31	Genomic epidemiology reveals multiple introductions of Zika virus into the United States. <i>Nature</i> , 2017 , 546, 401-405	50.4	235
30	An outbreak vector-host epidemic model with spatial structure: the 2015-2016 Zika outbreak in Rio De Janeiro. <i>Theoretical Biology and Medical Modelling</i> , 2017 , 14, 7	2.3	29
29	Zika Virus: What Have We Learnt Since the Start of the Recent Epidemic?. <i>Frontiers in Microbiology</i> , 2017 , 8, 1554	5.7	39
28	Defining the Risk of Zika and Chikungunya Virus Transmission in Human Population Centers of the Eastern United States. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005255	4.8	43
27	Fine-scale variation in microclimate across an urban landscape shapes variation in mosquito population dynamics and the potential of <i>Aedes albopictus</i> to transmit arboviral disease. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005640	4.8	72
26	Systematic Review: Land Cover, Meteorological, and Socioeconomic Determinants of <i>Aedes</i> Mosquito Habitat for Risk Mapping. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	31
25	Populations, megapopulations, and the areal unit problem. <i>Health and Place</i> , 2018 , 54, 79-84	4.6	2
24	Analysis of a Dengue Model with Vertical Transmission and Application to the 2014 Dengue Outbreak in Guangdong Province, China. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 2633-2651	2.1	13
23	Modeling the importation and local transmission of vector-borne diseases in Florida: The case of Zika outbreak in 2016. <i>Journal of Theoretical Biology</i> , 2018 , 455, 342-356	2.3	6
22	Travel distance and human movement predict paths of emergence and spatial spread of chikungunya in Thailand. <i>Epidemiology and Infection</i> , 2018 , 146, 1654-1662	4.3	6
21	Temperature impacts on dengue emergence in the United States: Investigating the role of seasonality and climate change. <i>Epidemics</i> , 2019 , 28, 100344	5.1	18
20	Assessing the potential impact of vector-borne disease transmission following heavy rainfall events: a mathematical framework. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180272	5.8	11
19	Patterns of spatial genetic structures in <i>Aedes albopictus</i> (Diptera: Culicidae) populations in China. <i>Parasites and Vectors</i> , 2019 , 12, 552	4	5
18	A vector-host model to assess the impact of superinfection exclusion on vaccination strategies using dengue and yellow fever as case studies. <i>Journal of Theoretical Biology</i> , 2020 , 484, 110014	2.3	1
17	Mosquito-Borne Disease and Human Mobility in Urban Environments. 2020 , 489-502		
16	Age-structured vectorial capacity reveals timing, not magnitude of within-mosquito dynamics is critical for arbovirus fitness assessment. <i>Parasites and Vectors</i> , 2020 , 13, 310	4	8

15	First outbreak of Zika virus in the continental United States: a modelling analysis. <i>Eurosurveillance</i> , 2017 , 22,	19.8	14
14	Fine-scale variation in microclimate across an urban landscape changes the capacity of <i>Aedes albopictus</i> to vector arbovirus.		0
13	Multiple introductions of Zika virus into the United States revealed through genomic epidemiology.		1
12	The tortoise strategy as an arbovirus fitness phenotype within the mosquito as revealed by a novel formulation of age-structured vectorial capacity.		
11	The Role of Isolation and Vector Control in the Prevention of Dengue: A Case Study of 2014 Dengue Outbreak in Singapore. <i>International Journal of Applied and Computational Mathematics</i> , 2021 , 7, 1	1.3	1
10	Game-Theoretical Model of the Voluntary Use of Insect Repellents to Prevent Zika Fever.. <i>Dynamic Games and Applications</i> , 2022 , 12, 1-14	1.1	0
9	Investigation of Biological Factors Contributing to Individual Variation in Viral Titer after Oral Infection of Mosquitoes by Sindbis Virus.. <i>Viruses</i> , 2022 , 14,	6.2	0
8	Using machine learning to understand microgeographic determinants of the Zika vector, <i>Aedes aegypti</i> .		
7	Immune defense in <i>Drosophila melanogaster</i> depends on diet, sex and mating status.		
6	A direct comparison of methods for assessing the threat from emerging infectious diseases in seasonally varying environments. <i>Journal of Theoretical Biology</i> , 2022 , 111195	2.3	1
5	A Game-Theoretic Model of Voluntary Yellow Fever Vaccination to Prevent Urban Outbreaks. 2022 , 13, 55		
4	How do i bite thee? let me count the ways: Exploring the implications of individual biting habits of <i>Aedes aegypti</i> for dengue transmission. 2022 , 16, e0010818		0
3	Dengue transmission under future climate and human population changes in mainland China. 2023 , 114, 785-798		0
2	Linking Mathematical Models and Trap Data to Infer the Proliferation, Abundance, and Control of <i>Aedes aegypti</i> . 2023 , 106837		0
1	Using machine learning to understand microgeographic determinants of the Zika vector, <i>Aedes aegypti</i> . 2022 , 17, e0265472		0