

# Federico Costa

## List of Publications by Citations

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87  
papers

3,699  
citations

26  
h-index

60  
g-index

103  
ext. papers

4,898  
ext. citations

5.7  
avg, IF

5.1  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 87 | Global Morbidity and Mortality of Leptospirosis: A Systematic Review. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0003898   | 4.8  | 687       |
| 86 | Zika virus: History, emergence, biology, and prospects for control. <i>Antiviral Research</i> , <b>2016</b> , 130, 69-80  | 10.8 | 437       |
| 85 | Zika Virus Infection and Stillbirths: A Case of Hydrops Fetalis, Hydranencephaly and Fetal Demise. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0004517   | 4.8  | 241       |
| 84 | Recurrent Potent Human Neutralizing Antibodies to Zika Virus in Brazil and Mexico. <i>Cell</i> , <b>2017</b> , 169, 597-609. e1199  | 60.2 | 1199      |
| 83 | Global Burden of Leptospirosis: Estimated in Terms of Disability Adjusted Life Years. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0004122   | 4.8  | 155       |
| 82 | Impact of preexisting dengue immunity on Zika virus emergence in a dengue endemic region. <i>Science</i> , <b>2019</b> , 363, 607-610   | 33.3 | 147       |
| 81 | Prospective study of leptospirosis transmission in an urban slum community: role of poor environment in repeated exposures to the <i>Leptospira</i> agent. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2927                         | 4.8  | 101       |
| 80 | Spatiotemporal Determinants of Urban Leptospirosis Transmission: Four-Year Prospective Cohort Study of Slum Residents in Brazil. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0004275   | 4.8  | 90        |
| 79 | Infections by <i>Leptospira interrogans</i> , Seoul virus, and <i>Bartonella</i> spp. among Norway rats ( <i>Rattus norvegicus</i> ) from the urban slum environment in Brazil. <i>Vector-Borne and Zoonotic Diseases</i> , <b>2014</b> , 14, 33-40 | 2.4  | 86        |
| 78 | International consensus principles for ethical wildlife control. <i>Conservation Biology</i> , <b>2017</b> , 31, 753-760  | 6    | 85        |
| 77 | Global population divergence and admixture of the brown rat ( <i>Rattus norvegicus</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,   | 4.4  | 83        |
| 76 | Patterns in <i>Leptospira</i> Shedding in Norway Rats ( <i>Rattus norvegicus</i> ) from Brazilian Slum Communities at High Risk of Disease Transmission. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0003819                        | 4.8  | 78        |
| 75 | Emergence of Congenital Zika Syndrome: Viewpoint From the Front Lines. <i>Annals of Internal Medicine</i> , <b>2016</b> , 164, 689-91   | 8    | 70        |
| 74 | Influence of household rat infestation on leptospira transmission in the urban slum environment. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e3338   | 4.8  | 68        |
| 73 | Clinical characteristics and risk factors of human leptospirosis in Argentina (1999-2005). <i>Acta Tropica</i> , <b>2008</b> , 107, 255-8   | 3.2  | 64        |
| 72 | The impact of Brazil's Bolsa Família conditional cash transfer program on children's health care utilization and health outcomes. <i>BMC International Health and Human Rights</i> , <b>2014</b> , 14, 10   | 2.5  | 62        |
| 71 | Adverse birth outcomes associated with Zika virus exposure during pregnancy in São José do Rio Preto, Brazil. <i>Clinical Microbiology and Infection</i> , <b>2018</b> , 24, 646-652  | 9.5  | 42        |

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|----|--|------|----|
| 70 | Urban population genetics of slum-dwelling rats ( <i>Rattus norvegicus</i> ) in Salvador, Brazil. <i>Molecular Ecology</i> , <b>2013</b> , 22, 5056-70   | 5.7  | 39 |
| 69 | A Two-Year Ecological Study of Norway Rats ( <i>Rattus norvegicus</i> ) in a Brazilian Urban Slum. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152511  | 3.7  | 35 |
| 68 | COVID-19: urgent actions, critical reflections and future relevance of 'WaSH': lessons for the current and future pandemics. <i>Journal of Water and Health</i> , <b>2020</b> , 18, 613-630                          | 2.2  | 33 |
| 67 | Spatial and temporal dynamics of pathogenic <i>Leptospira</i> in surface waters from the urban slum environment. <i>Water Research</i> , <b>2018</b> , 130, 176-184  | 12.5 | 32 |
| 66 | Using fine-scale spatial genetics of Norway rats to improve control efforts and reduce leptospirosis risk in urban slum environments. <i>Evolutionary Applications</i> , <b>2017</b> , 10, 323-337                   | 4.8  | 29 |
| 65 | Urban rat races: spatial population genomics of brown rats ( <i>Rattus norvegicus</i> ) compared across multiple cities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,         | 4.4  | 29 |
| 64 | Risk of Zika microcephaly correlates with features of maternal antibodies. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 2302-2315  | 16.6 | 28 |
| 63 | Quantification of pathogenic <i>Leptospira</i> in the soils of a Brazilian urban slum. <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006415  | 4.8  | 27 |
| 62 | Knowledge, attitudes, and practices related to Leptospirosis among urban slum residents in Brazil. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2013</b> , 88, 359-63                               | 3.2  | 25 |
| 61 | Surveillance for leptospirosis in the Americas, 1996-2005: a review of data from ministries of health. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , <b>2012</b> , 32, 169-77 | 4.1  | 25 |
| 60 | Temporal and spatial host abundance and prevalence of Andes hantavirus in southern Argentina. <i>EcoHealth</i> , <b>2010</b> , 7, 176-84   | 3.1  | 23 |
| 59 | Seizures as a Complication of Congenital Zika Syndrome in Early Infancy. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2018</b> , 98, 1860-1862  | 3.2  | 23 |
| 58 | Distinct antibody responses of patients with mild and severe leptospirosis determined by whole proteome microarray analysis. <i>PLoS Neglected Tropical Diseases</i> , <b>2017</b> , 11, e0005349                    | 4.8  | 22 |
| 57 | Scoping review: national monitoring frameworks for social determinants of health and health equity. <i>Global Health Action</i> , <b>2016</b> , 9, 28831   | 3    | 21 |
| 56 | <i>Leptospira</i> in breast tissue and milk of urban Norway rats ( <i>Rattus norvegicus</i> ). <i>Epidemiology and Infection</i> , <b>2016</b> , 144, 2420-9   | 4.3  | 20 |
| 55 | Zoonotic and Vector-Borne Diseases in Urban Slums: Opportunities for Intervention. <i>Trends in Parasitology</i> , <b>2017</b> , 33, 660-662   | 6.4  | 19 |
| 54 | A Comparative Assessment of Track Plates to Quantify Fine Scale Variations in the Relative Abundance of Norway Rats in Urban Slums. <i>Urban Ecosystems</i> , <b>2016</b> , 19, 561-575                              | 2.8  | 19 |
| 53 | A survey of zoonotic pathogens carried by house mouse and black rat populations in Yucatan, Mexico. <i>Epidemiology and Infection</i> , <b>2017</b> , 145, 2287-2295   | 4.3  | 19 |

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|----|---|------|----|
| 52 | Urban slum structure: integrating socioeconomic and land cover data to model slum evolution in Salvador, Brazil. <i>International Journal of Health Geographics</i> , <b>2013</b> , 12, 45  | 3.5  | 18 |
| 51 | Zika Virus RNA Persistence in Sewage. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 659-664  | 11   | 18 |
| 50 | Molecular characterization of pathogenic <i>Leptospira</i> sp. in small mammals captured from the human leptospirosis suspected areas of Selangor state, Malaysia. <i>Acta Tropica</i> , <b>2018</b> , 188, 68-77                                     | 3.2  | 17 |
| 49 | Evidence of multiple intraspecific transmission routes for <i>Leptospira</i> acquisition in Norway rats ( <i>Rattus norvegicus</i> ). <i>Epidemiology and Infection</i> , <b>2017</b> , 145, 3438-3448  | 4.3  | 17 |
| 48 | sp. nov. and sp. nov., two new species of the pathogenic group isolated from environmental sources. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2020</b> , 70, 1450-1456  | 2.2  | 16 |
| 47 | The Spatial Dimension of COVID-19: The Potential of Earth Observation Data in Support of Slum Communities with Evidence from Brazil. <i>ISPRS International Journal of Geo-Information</i> , <b>2020</b> , 9, 557                                     | 2.9  | 15 |
| 46 | Epidemiological shift and geographical heterogeneity in the burden of leptospirosis in China. <i>Infectious Diseases of Poverty</i> , <b>2018</b> , 7, 57   | 10.4 | 13 |
| 45 | The helminth community of a population of <i>Rattus norvegicus</i> from an urban Brazilian slum and the threat of zoonotic diseases. <i>Parasitology</i> , <b>2018</b> , 145, 797-806   | 2.7  | 13 |
| 44 | A model for leptospire dynamics and control in the Norway rat ( <i>Rattus norvegicus</i> ) the reservoir host in urban slum environments. <i>Epidemics</i> , <b>2018</b> , 25, 26-34  | 5.1  | 13 |
| 43 | Influence of Rainfall on <i>Leptospira</i> Infection and Disease in a Tropical Urban Setting, Brazil. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 311-314   | 10.2 | 12 |
| 42 | Heterogenic colonization patterns by <i>Leptospira interrogans</i> in <i>Rattus norvegicus</i> from urban slums. <i>Brazilian Journal of Microbiology</i> , <b>2015</b> , 46, 1161-4  | 2.2  | 11 |
| 41 | A systematic literature review of leptospirosis outbreaks worldwide, 1970-2012. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , <b>2020</b> , 44, e78  | 4.1  | 11 |
| 40 | Morphometric and demographic differences between tropical and temperate Norway rats ( <i>Rattus norvegicus</i> ). <i>Journal of Mammalogy</i> , <b>2015</b> , 96, 317-323   | 1.8  | 10 |
| 39 | Worldwide overview of human infections with <i>Hymenolepis diminuta</i> . <i>Parasitology Research</i> , <b>2020</b> , 119, 1997-2004   | 2.4  | 10 |
| 38 | Rat infestation associated with environmental deficiencies in an urban slum community with high risk of leptospirosis transmission. <i>Cadernos De Saude Publica</i> , <b>2017</b> , 33,  | 3.2  | 10 |
| 37 | Multiple Paternity in the Norway Rat, <i>Rattus norvegicus</i> , from Urban Slums in Salvador, Brazil. <i>Journal of Heredity</i> , <b>2016</b> , 107, 181-6  | 2.4  | 10 |
| 36 | Factors affecting carriage and intensity of infection of <i>Calodium hepaticum</i> within Norway rats ( <i>Rattus norvegicus</i> ) from an urban slum environment in Salvador, Brazil. <i>Epidemiology and Infection</i> , <b>2017</b> , 145, 334-338 | 4.3  | 8  |
| 35 | Differences in the Prevalence of Non-Communicable Disease between Slum Dwellers and the General Population in a Large Urban Area in Brazil. <i>Tropical Medicine and Infectious Disease</i> , <b>2017</b> , 2,  | 3.5  | 8  |

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|----|---|-----|---|
| 34 | Rat infestation associated with environmental deficiencies in an urban slum community with high risk of leptospirosis transmission. <i>Cadernos De Saude Publica</i> , <b>2017</b> , 33, e00132115  | 3.2 | 8 |
| 33 | A road map for leptospirosis research and health policies based on country needs in Latin America. <i>Revista Panamericana De Salud Publica/Pan American Journal of Public Health</i> , <b>2018</b> , 41, e131  | 4.1 | 8 |
| 32 | Tails of Two Cities: Age and Wounding Are Associated With Carriage of <i>Leptospira interrogans</i> by Norway Rats ( <i>Rattus norvegicus</i> ) in Ecologically Distinct Urban Environments. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7, | 3.7 | 8 |
| 31 | Investigation of chronic infection by <i>Leptospira</i> spp. in asymptomatic sheep slaughtered in slaughterhouse. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217391  | 3.7 | 7 |
| 30 | Developmental outcomes in children exposed to Zika virus in utero from a Brazilian urban slum cohort study. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009162  | 4.8 | 7 |
| 29 | Transmission of Chikungunya Virus in an Urban Slum, Brazil. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 1364-1373   | 4.3 | 6 |
| 28 | Diversity of containers and buildings infested with <i>Aedes aegypti</i> in Puerto Iguazú, Argentina. <i>Cadernos De Saude Publica</i> , <b>2012</b> , 28, 1802-6   | 3.2 | 6 |
| 27 | COVID-19: urgent actions, critical reflections and future relevance of WASH lessons for the current and future pandemics. <i>Journal of Water Sanitation and Hygiene for Development</i> , <b>2020</b> , 10, 379-396                                      | 4.5 | 6 |
| 26 | Zika virus and microcephaly: where do we go from here?. <i>Lancet Infectious Diseases</i> , <b>2018</b> , 18, 236-237   | 3.5 | 6 |
| 25 | Fine-scale GPS tracking to quantify human movement patterns and exposure to leptospires in the urban slum environment. <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006752   | 4.8 | 6 |
| 24 | Willingness to Get the COVID-19 Vaccine among Residents of Slum Settlements. <i>Vaccines</i> , <b>2021</b> , 9,   | 5.3 | 5 |
| 23 | Spatial and Simultaneous Seroprevalence of Anti- Antibodies in Owners and Their Domiciled Dogs in a Major City of Southern Brazil. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 580400   | 3.1 | 4 |
| 22 | Significant Genetic Impacts Accompany an Urban Rat Control Campaign in Salvador, Brazil. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,   | 3.7 | 3 |
| 21 | Genetic evidence for a potential environmental pathway to spillover infection of rat-borne leptospirosis. <i>Journal of Infectious Diseases</i> , <b>2021</b> ,   | 7   | 3 |
| 20 | Risk of Sexually Transmitted Zika Virus in a Cohort of Economically Disadvantaged Urban Residents. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 224, 860-864   | 7   | 3 |
| 19 | Optimal Control of Rat-Borne Leptospirosis in an Urban Environment. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,  | 3.7 | 2 |
| 18 | Household rat infestation in urban slum populations: Development and validation of a predictive score for leptospirosis. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009154   | 4.8 | 2 |
| 17 | Short Communicaton:Increased Rat Sightings in Urban Slums During the COVID-19 Pandemic and the Risk for Rat-Borne Zoonoses. <i>Vector-Borne and Zoonotic Diseases</i> , <b>2021</b> , 21, 160-161   | 2.4 | 2 |

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|----|---|------|---|
| 16 | Coinfection modifies carriage of enzootic and zoonotic parasites in Norway rats from an urban slum. <i>Ecosphere</i> , <b>2019</b> , 10, e02887   | 3.1  | 2 |
| 15 | <i>Leptospira interrogans</i> biofilm formation in <i>Rattus norvegicus</i> (Norway rats) natural reservoirs. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009736  | 4.8  | 2 |
| 14 | Effects of Accounting for Interval-Censored Antibody Titer Decay on Seroincidence in a Longitudinal Cohort Study of Leptospirosis. <i>American Journal of Epidemiology</i> , <b>2021</b> , 190, 893-899   | 3.8  | 1 |
| 13 | Low Prevalence of Carriage in Rodents in Leptospirosis-Endemic Northeastern Thailand. <i>Tropical Medicine and Infectious Disease</i> , <b>2020</b> , 5,  | 3.5  | 1 |
| 12 | Severe leptospirosis after rat bite: A case report. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008257  | 4.8  | 1 |
| 11 | A multivariate geostatistical framework for combining multiple indices of abundance for disease vectors and reservoirs: a case study of in a low-income urban Brazilian community. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200398                     | 4.1  | 1 |
| 10 | Effect of chemical and sanitary intervention on rat sightings in urban communities of New Providence, the Bahamas. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1  | 1.8  | 1 |
| 9  | Clinical and Biochemical Features of Hypopituitarism Among Brazilian Children With Zika Virus-Induced Microcephaly. <i>JAMA Network Open</i> , <b>2021</b> , 4, e219878   | 10.4 | 1 |
| 8  | Poverty, sanitation, and <i>Leptospira</i> transmission pathways in residents from four Brazilian slums. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009256   | 4.8  | 1 |
| 7  | Using Rhodamine B to assess the movement of small mammals in an urban slum. <i>Methods in Ecology and Evolution</i> ,   | 7.7  | 1 |
| 6  | Rainfall and other meteorological factors as drivers of urban transmission of leptospirosis.. <i>PLoS Neglected Tropical Diseases</i> , <b>2022</b> , 16, e0007507  | 4.8  | 1 |
| 5  | in urban populations of terrestrial gastropods and rats in an impoverished region of Brazil. <i>Parasitology</i> , <b>2021</b> , 148, 994-1002  | 2.7  | 0 |
| 4  | Social determinants associated with Zika virus infection in pregnant women. <i>PLoS Neglected Tropical Diseases</i> , <b>2021</b> , 15, e0009612  | 4.8  | 0 |
| 3  | Multidisciplinary approach in the diagnosis of acute leptospirosis in dogs naturally infected by <i>Leptospira interrogans</i> serogroup Icterohaemorrhagiae: A prospective study. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , <b>2021</b> , 77, 101664 | 2.6  | 0 |
| 2  | Heterogeneous development of children with Congenital Zika Syndrome-associated microcephaly. <i>PLoS ONE</i> , <b>2021</b> , 16, e0256444   | 3.7  | 0 |
| 1  | Biannual and Quarterly Comparison Analysis of Agglutinating Antibody Kinetics on a Subcohort of Individuals Exposed to in Salvador, Brazil.. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 862378   | 4.9  | 0 |