

# Zika Annotated Bibliography

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## General Disease Information:

1. Zika virus fact sheet, World Health Organization, <http://www.who.int/mediacentre/factsheets/zika/en/>.
2. Assessment of infants with microcephaly in the context of Zika virus, Interim guidance, World Health Organization (February 25, 2016), <http://www.who.int/csr/resources/publications/zika/assessment-infants/en/>.
3. Identification and management of Guillain-Barré syndrome in the context of Zika virus, Interim guidance, World Health Organization (February 25, 2016), <http://www.who.int/csr/resources/publications/zika/guillain-barre-syndrome/en/>.
4. Breastfeeding in the context of Zika virus, Interim guidance, World Health Organization (February 25, 2016), <http://www.who.int/csr/resources/publications/zika/breastfeeding/en/>.
5. Zika and sexual transmission, Online Q&A, World Health Organization (February 25, 2016), <http://www.who.int/features/qa/zika-sexual-transmission/en/>.
6. Zika virus, symptoms, diagnosis & treatment, Centers for Disease Control and Prevention (January 23, 2016), <http://www.cdc.gov/zika/symptoms/>.
7. Zika virus, The New England Journal of Medicine, <http://www.nejm.org/page/zika-virus>.

## Zika in the News/Media:

8. S. Romero, Alarm spreads in Brazil over a virus and a surge in malformed infants, The New York Times (December 20, 2015), <http://www.nytimes.com/2015/12/31/world/americas/>

[alarm-spreads-in-brazil-over-a-virus-and-a-surge-in-malformed-infants.html](#).

#### **Travel:**

9. CDC issues interim travel guidance related to Zika virus for 14 Countries and Territories in Central and South America and the Caribbean, Centers for Disease Control and Prevention (January 17, 2016), <http://www.cdc.gov/media/releases/2016/s0315-zika-virus-travel.html>.

#### **Genetic Defects:**

10. D. Butler, Zika virus: Brazil's surge in small-headed babies questioned by report, Nature doi:10.1038/nature.2016.19259 (January 28, 2016), <http://www.nature.com/news/zika-virus-brazil-s-surge-in-small-headed-babies-questioned-by-report-1.19259>.

#### **Dengue:**

11. Dengue homepage, Prevention, How to reduce your risk of dengue infection, Centers for Disease Control and Prevention (2009, updated 2012), <http://www.cdc.gov/Dengue/prevention/>.
12. Site da Dengue, <http://www.dengue.org.br>.
13. O. Brathwaite Dick, J.L. San Martn, R.H. Montoya, J. del Diego, B. Zambrano, G.H. Dayan, The history of Dengue outbreaks in the Americas, Am. J. Trop. Med. Hyg. 87(4), 584-593 (October 3, 2012), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3516305/>.
14. C. Gorry, Beefed-up measures aim to prevent Dengue, Headlines in Cuban Health, Epidemics: The Cuban Approach, MEDICC Review VII, 7 (July 2005), [http://www.medicc.org/publications/medicc\\_review/0705/headlines-in-cuban-health.html](http://www.medicc.org/publications/medicc_review/0705/headlines-in-cuban-health.html).
15. Queensland Dengue Management Plan 2010-2015, Queensland Health (2011), [http://s3.amazonaws.com/zanran\\_storage/www.health.qld.gov.au/](http://s3.amazonaws.com/zanran_storage/www.health.qld.gov.au/)

[ContentPages/2508518310.pdf](#).

16. S&T Media Service, DOST's OL Trap sites show decrease in dengue cases, Department of Science and Technology (2011), [http://old.stii.dost.gov.ph/index.php?option=com\\_content&view=article&id=141:dosts-ol-trap-sites-show-decrease-in-dengue-cases&catid=39:latest](http://old.stii.dost.gov.ph/index.php?option=com_content&view=article&id=141:dosts-ol-trap-sites-show-decrease-in-dengue-cases&catid=39:latest).
17. C. Basso, E. García da Rosa, S. Romero, C. González, R. Lairihoy, I. Roche, R.M. Caffera, R. da Rosa, M. Calfani, E. Alfonso-Sierra, M. Petzold, A. Kroeger, and J. Sommerfeld, Improved dengue fever prevention through innovative intervention methods in the city of Salto, Uruguay, *Trans. R. Soc. Trop. Med. Hyg.* 109, 134-142 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299522/>.
18. O. Horstick, S. Runge-Ranzinger, M.B. Nathan, A. Kroeger, Dengue vector-control services: How do they work? A systematic literature review and country case studies, *Trans. R. Soc. Trop. Med. Hyg.* 104, 379-386 (2010).
19. M.E. Toledo, V. Vanlerberghe, D. Perez, P. Lefèvre, E. Ceballos, D. Bandera, A. Baly, P. Van der Stuyft, Achieving sustainability of community based Dengue control in Santiago de Cuba, *Soc. Sci. Med.* 64(4), 976-988 (2007).
20. M. da Glória Teixeira, M. da Conceição Nascimento Costa, M.L. Barreto, E. Mota, Dengue and dengue hemorrhagic fever epidemics in Brazil: What research is needed based on trends, surveillance, and control experiences?, *Cad. Saúde Pública* 21(5) (2005), [http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S0102-311X2005000500002](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0102-311X2005000500002).
21. C. Heintze, M.V. Garrido, A. Kroeger, What do community-based dengue control programmes achieve? A systematic review of published evaluations, *Trans. R. Soc. Trop. Med. Hyg.* 101, 317-325 (2007).
22. K. Mitchell-Foster, E.B. Ayala, J. Breilh, J. Spiegel, A.A. Wilches, T.O. Leon, J.A. Delgado, Integrating participatory community mobilization processes to improve dengue prevention: An eco-bio-social scaling up of local success in Machala, Ecuador, *Trans. R. Soc. Trop. Med. Hyg.* 109, 126-133 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299531/>.

23. J. Quintero, T. García-Betancourt, S. Cortés, D. García, L. Alcalá, C. González-Urbea, H. Brochero, G. Carrasquilla, Effectiveness and feasibility of long-lasting insecticide-treated curtains and water container covers for dengue vector control in Colombia: A cluster randomised trial, *Trans. R. Soc. Trop. Med. Hyg.* 109, 116-125 (2015).
24. A. Caprara, J.W. Lima A.C. Peixoto, C.M. Motta, J.M. Nobre, J. Sommerfeld, A. Kroeger, Entomological impact and social participation in dengue control: A cluster randomized trial in Fortaleza, Brazil, *Trans. R. Soc. Trop. Med. Hyg.* 109(2), 99-105 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299523/>.
25. A. Che-Mendoza, G. Guillermo-May, J. Herrera-Bojórquez, M. Barrera-Pérez, F. Dzul-Manzanilla, C. Gutierrez-Castro, J.I. Arredondo-Jiménez, G. Sánchez-Tejeda, G. Vazquez-Prokopec, H. Ranson, A. Lenhart, J. Sommerfeld, P.J. McCall, A. Kroeger, P. Manrique-Saide, Long-lasting insecticide-treated house screens and targeted treatment of productive breeding sites for dengue vector control in Acapulco, Mexico, *Trans. R. Soc. Trop. Med. Hyg.* 109, 106-115 (January 19, 2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299524/>.
26. N. Rizzo, R. Gramajo, M.C. Escobar, B. Arana, A. Kroeger, P. Manrique-Saide, M. Petzold, Dengue vector management using insecticide treated materials and targeted interventions on productive breeding-sites in Guatemala, *BMC Public Health* 12, 931 (2012), <http://bmcpublichealth.biomedcentral.com/articles/10.1186/1471-2458-12-931>.
27. A. Lenhart, N. Orelus, R. Maskill, N. Alexander, T. Streit, P.J. McCall, Insecticide-treated bednets to control dengue vectors: Preliminary evidence from a controlled trial in Haiti, *Trop. Med. Int. Health* 13(1), 56-67 (2008), <http://onlinelibrary.wiley.com/doi/10.1111/j.1365-3156.2007.01966.x/epdf>.

#### **Combatting Mosquito Populations:**

28. C. Sherman, E.A. Fernandez, A.S. Chan, R.C. Lozano, E. Leontsini, P.J. Winch, La Untadita: A procedure for maintaining washbasins and drums free of *Aedes aegypti* based on modification of existing practices, *Am. J. Trop. Med. Hyg.* 58(2), 257-262 (1998).

29. Mosquito dunks FAQ, Summit, <http://www.summitchemical.com/wp-content/uploads/2012/06/FAQ-MosqDunksrev612.pdf>.
30. Lethal Ovitrap, Wikipedia, [https://en.wikipedia.org/wiki/Lethal\\_ovitrap](https://en.wikipedia.org/wiki/Lethal_ovitrap).
31. O.P. Severo, Eradication of the *Aedes aegypti* mosquito from the Americas, Yellow fever, a symposium in commemoration of Carlos Juan Finlay, 1955, Paper 6 (1955), [http://jdc.jefferson.edu/yellow\\_fever\\_symposium/6](http://jdc.jefferson.edu/yellow_fever_symposium/6).

#### **Mosquito Research:**

32. L.C. Harrington, J.D. Edman, T.W. Scott, Why do female *Aedes aegypti* (Diptera: Culicidae) feed preferentially and frequently on human blood?, *J. Med. Entomol.* 38(3), 411-422 (2001).
33. A. Ponlawat, L.C. Harrington, Blood feeding patterns of *Aedes aegypti* and *Aedes albopictus* in Thailand, *J. Med. Entomol.* 42(5), 844-849 (2005), <http://jme.oxfordjournals.org/content/42/5/844>.
34. T.W. Scott, P.H. Amerasinghe, A.C. Morrison, L.H. Lorenz, G.G. Clark, D. Strickman, P. Kittayapong, J.D. Edman, Longitudinal studies of *Aedes aegypti* (Diptera: Culicidae) in Thailand and Puerto Rico: Blood feeding frequency, *J. Med. Entomol.* 37(1), 89-101 (2000), <http://www.bioone.org/doi/full/10.1603/0022-2585-37.1.89>.
35. M.M. Sowilem, H.A. Kamal, E.I. Khater, Life table characteristics of *Aedes aegypti* (Diptera: Culicidae) from Saudi Arabia, *Trop. Biomed.* 30(2), 301-314 (2013).
36. L.F. Chaves, L.C. Harrington, C.L. Keogh, A.M. Nguyen, U.D. Kitron, Blood feeding patterns of mosquitoes: Random or structured?, *Front. Zool.* 7, 3 (2010).
37. O.J. Brady, M.A. Johansson, C.A. Guerra, S. Bhatt, N. Golding, D.M. Pigott, H. Delatte, M.G. Grech, P.T. Leisnham, R. Maciel-de-Freitas, L.M. Styer, D.L. Smith, T.W. Scott, P.W. Gething, S.I. Hay, Modelling adult *Aedes aegypti* and *Aedes albopictus* survival at different temperatures in laboratory and field settings, *Parasit. Vectors* 6, 351 (2013), <http://www.parasitesandvectors.com/content/6/1/351>.

38. E.V. Handel, Rapid determination of total lipids in mosquitoes, *J. Amer. Mosquito Control Assoc.* 1(3), 302-304 (1985), [http://www.biodiversitylibrary.org/content/part/JAMCA/JAMCA\\_V01\\_N3\\_P302-304.pdf](http://www.biodiversitylibrary.org/content/part/JAMCA/JAMCA_V01_N3_P302-304.pdf).
39. H. Briegel, Metabolic relationship between female body size, reserves, and fecundity of *Aedes aegypti*, *J. Insect Physio.* (36) 3, 165-172 (1990).
40. E.V. Handel, Metabolism of nutrients in the adult mosquito, *Mosquito News*, 573-579 (1984), [http://www.biodiversitylibrary.org/content/part/JAMCA/MN\\_V44\\_N4\\_P573-579.pdf](http://www.biodiversitylibrary.org/content/part/JAMCA/MN_V44_N4_P573-579.pdf).
41. L.M. Styer, S.L. Minnick, A.K. Sun, T.W. Scott, Mortality and reproductive dynamics of *Aedes aegypti* (Diptera: Culicidae) fed human blood, *Vector-Borne Zoonotic Dis.* 7(1), 86-98 (2007).
42. J. Finkelman, Innovative community-based ecosystem management for dengue and Chagas disease prevention in low and middle income countries in Latin America and the Caribbean, *Trans. R. Soc. Trop. Med. Hyg.* 109, 89-90 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299526/>.

**Vector Dynamics:**

43. T.W. Scott, A.C. Morrison, Vector dynamics and transmission of Dengue virus: Implications for Dengue surveillance and prevention strategies, *Curr. Top. Microbiol.* 338, 115-128 (2009).
44. M.O. Souza, Multiscale analysis for a vector-borne epidemic model, *J. Math. Biol.* 68 (5), 1269-1293 (2014).
45. C.C. Lord, B.W. Alto, S.L. Anderson, C.R. Connolly, J.F. Day, S.L. Richards, C.T. Smartt, W. J. Tabachnick, Can Horton hear the Whos? The importance of scale in mosquito-borne disease, *J. Med. Entomol.* 51(2), 297-313 (2014), <http://jme.oxfordjournals.org/content/51/2/297>.
46. J. Arrivillaga, R. Barrera, Food as a limiting factor for *Aedes aegypti* in water-storage containers, *J. Vector Ecol.* (June, 2004), <http://www.ove.org/OVE%20folder/journal/June%202004/Arrivillaga.pdf>.

47. M.A. Robert, Mathematical models of genetic strategies for controlling the Dengue vector, *Aedes aegypti*, PHD Dissertation, North Carolina State University (2013), <http://repository.lib.ncsu.edu/ir/bitstream/1840.16/8957/1/etd.pdf>.
48. M. Egeeth, R. Kurzban, Artificial natural selection: Can supplemental feeding domesticate mosquitoes and control mosquito-borne diseases?, *Evol. Psychol.* 10(3), 602-610 (2012), <http://en.youscribe.com/catalogue/reports-and-theses/knowledge/humanities-and-social-sciences/artificial-natural-selection-can-supplemental-feeding-domesticate-2387724>.
49. K.S. Rock, How much do we care about biting insects? Modelling the dynamics of vector-borne diseases, PHD Thesis, University of Warwick (2014).
50. E. Waleckx, J. Camara-Mejia, M.J. Ramirez-Sierra, V. Cruz-Chan, M. Rosado-Vallado, S. Vazquez-Narvaez, R. Najera-Vazquez, S. Gourbière, E. Dumonteil, An innovative ecohealth intervention for Chagas disease vector control in Yucatan, Mexico, *Trans. R. Soc. Trop. Med. Hyg.* 109, 143-149 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299525/>.
51. L. Eisen, S. Lozano-Fuentes, Use of mapping and spatial and space-time modeling approaches in operational control of *Aedes aegypti* and Dengue, *PLoS Negl. Trop. Dis.* 3(4), e411 (2009), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2668799/>.
52. R.E. Gürtler, Z.E. Yadon, Eco-bio-social research on community-based approaches for Chagas disease vector control in Latin America, *Trans. R. Soc. Trop. Med. Hyg.* 109, 91-98 (2015), <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299528/>.