1. Record Nr. UNINA9910270905903321 Autore Ramos da Silva Suzane <1979-> Titolo Zika virus and diseases: from molecular biology to epidemiology / / Suzane Ramos da Silva, Fan Cheng, Shou-Jiang Gao Hoboken, New Jersey: .: Wiley Blackwell, . 2018 Pubbl/distr/stampa ©2018 **ISBN** 1-119-40866-0 1-119-40865-2 1-119-40867-9 Descrizione fisica 1 online resource (277 pages): illustrations (some color), photographs Disciplina 614.5885 Soggetti Zika virus infection - Epidemiology Zika virus infection Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Machine generated contents note: Preface List of Abbreviations Chapter 1: The history of ZIKV discovery 1.1 ZIKV isolation from monkeys and mosquitos 1.2 ZIKV infection in humans 1.3 ZIKV infection spread to other hosts and regions 1.4 Cross-paths between ZIKV and other flaviviruses References Chapter 2: ZIKV: From silent to epidemic 2.1 Outbreak in Yap Island (2007) 2.2 Outbreak in French Polynesia (2013) 2.3 How did ZIKV reach Brazil? 2.4 Outbreak in Brazil (2015) 2.5 ZIKV spread through South, Central and North Americas References Chapter 3: ZIKV Transmission and Prevention 3.1 Modes of Transmission 3.2 Prevention References Chapter 4: Association with Guillain-Barre syndrome and microcephaly 4.1 Association with neurological disorders References Chapter 5: ZIKV animal models 5.1 Animal models: Embryonated hen eggs 5.2 Animal models: Landrace piglet 5.3 Animal models: Mice 5.4 Animal model - non-human primate References Chapter 6: Biology of ZIKV 6.1 Structural and physical properties of ZIKV virion 6.2 Binding and entry 6.3 Genome

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Sommario/riassunto

"Compiles the most current information on the Zika virus and its associated diseases This comprehensive book provides the most upto-date information for students, medical students, and scientists on Zika virus and its associated diseases. It includes all the information related to the Zika virus since its discovery in 1947; its epidemic outbreak in 2007-2014; how the epidemiology changed in America in 2015-2016; its mode of transmission; how to prevent and treat it; and associated diseases. Zika Virus and Diseases: From Molecular Biology to Epidemiology offers complete and up-to-date coverage in 10 chapters. It presents information from papers that attempted to associate the virus with diseases in Africa until the first animal experiment; discusses its association with Guillain-Barre syndrome and microcephaly: describes the basic mechanisms for Zika (ZIKV) replication, including important differences between Dengue (DENV), West-Nile virus (WNV). and ZIKV; explains the difference between the strains and discusses the pathogenesis of them; covers the papers that showed all the interferences that Zika can cause, and the pathways which can be modified; and more. The first book since 1947 to put together all the scientific information Compiles all the information received in the last year about Zika virus Clearly demonstrates the origin and discovery of the virus Zika Virus and Diseases: From Molecular Biology to Epidemiology will appeal to graduate students, medical students, basic researchers, clinicians in infectious disease, microbiology, and virology, as well as people in related disciplines interested in learning more about this topic" --