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Ana Maria Bispo de Filippis has a MSc in Molecular and Cellular biology (1997) and a PhD in Virology. She has been a researcher part of the Virology Department of the Oswaldo Cruz Foundation since 1983 and has worked in various research topics within the areas of surveillance and molecular epidemiology of Poliovirus and others Enterovirus, yellow fever virus, dengue and other arbovirus. From 2004 until 2010, she worked as Regional Consultant of the Pan-American Health Organization (OPAS/OMS) in Washington DC (USA), coordinating the network of regional laboratories that support the immunization programs in the American region, specifically, the network of laboratories that work with measles, rubella, polio, rotavirus and HPV. In March 2010, Ana returned to the Flavivirus laboratory in the Oswaldo Cruz Institute (Fiocruz), working again with virological surveillance, serology, molecular epidemiology, pathogenesis, and atypical clinical presentation of dengue and other arbovirus with epidemiological importance within the state of Rio de Janeiro and Brazil. In November 2015, she lead the team that detected for the first time in the world the presence of Zika in amniotic fluid of two pregnant woman with foetus presenting microcephaly. This represented the first strong evidence that associated the Zika Virus and the microcephaly. Ana is the main investigator of various projects in the areas of Zika virus with funding from the European Union, WHO, Wellcome Trust, the Brazilian Health Department, IDRC (Canada) and MRC (UK).

Ana has a continuous role in training human resources at different levels, technical professionals and academics (undergraduates, master students and PhDs). Ana's laboratory collaborates with Institutes from Brazil, Europe and United States. Ana is a permanent consultant for the Brazilian Health Department, Regional and Municipal Health Secretariat, OPAS/WHO. Production of manuals, scientific articles and book chapters.