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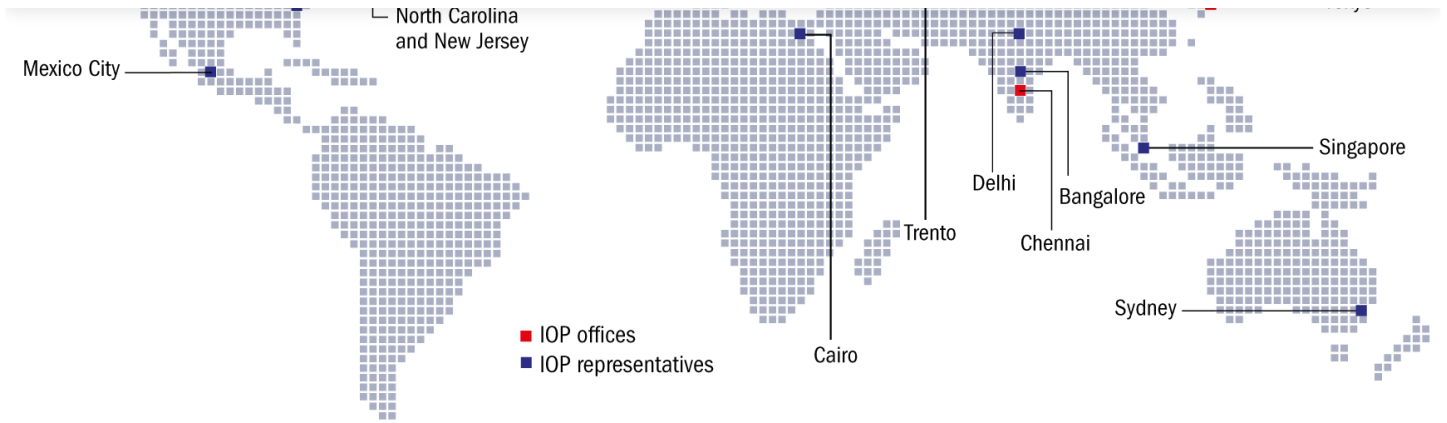
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Population of *Aedes* sp in Highland of Wonosobo District and Its Competence as A Dengue Vector

Martini Martini^{1,2}, Bagoes Widjanarko¹, Retno Hestningsih¹, Susiana Purwantisari³ and Sri Yuliawati¹

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Abstract

The increased cases of dengue fever have occurred in the highland of Wonosobo District, and the epidemic taken place in 2009 had 59.3 cases per 100,000 populations. This study aimed to describe of vector competence of the mosquitoes as a dengue vector in the highland of Wonosobo District, Central Java Province. The serial laboratory work was done to measure of vector competence complementary with vector bionomic study. The samples were 20 villages, which were located at Wonosobo sub district. Every village was observed about 15-20 houses. The observed variables were vector competition, bionomic and transovarial infection level, and titer of virus on the mosquitoes after injection. Immunohistochemistry or IHC methods were used to identify transovarial infection status. The number of *Ae. aegypti* and *Ae. albopictus* were almost similar and both were found indoors or outdoors. Based on HI and OI index, the

larvae density in the highland was enough high than standard of the program. Transovarial infection was found on *Ae. aegypti* and *Ae. albopictus*. Environment parameters such as temperature and relative humidity fulfilled the optimum requirement to support the vectors' life cycle. Transovarial infection has been proven, thus, it indicates that the local transmission has been occurred in this area. Titer of virus was also increasing after day per day. This indicate that the mosquitoes has the ability being vector. As used to do in other area, it is important to conduct breeding places elimination (PSN) indoors as well as outdoors, through active participation of the community in highland area.

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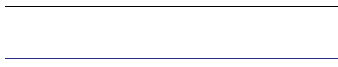
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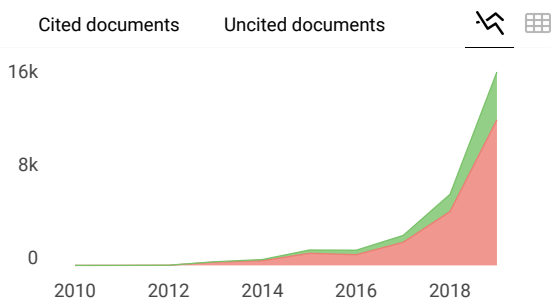
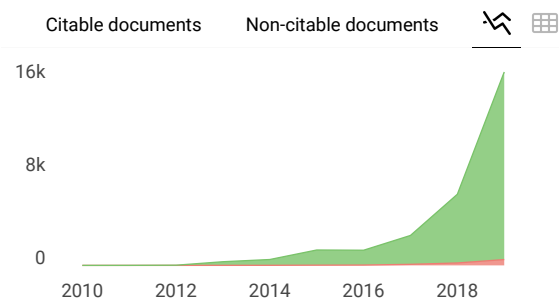
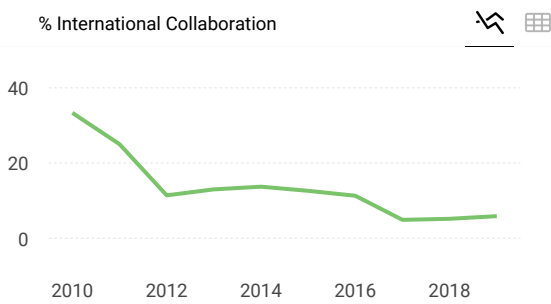
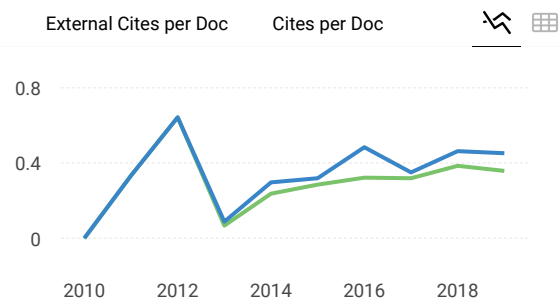
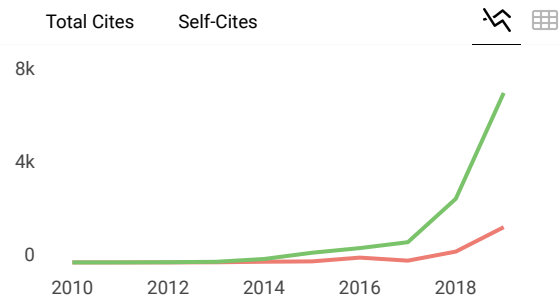
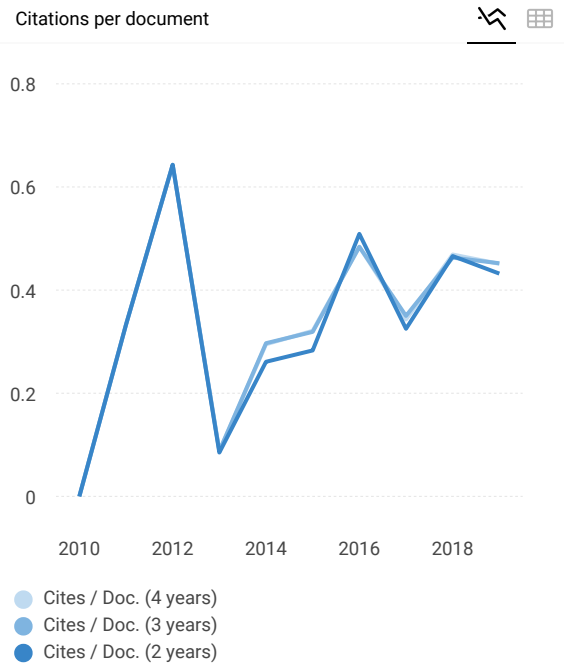
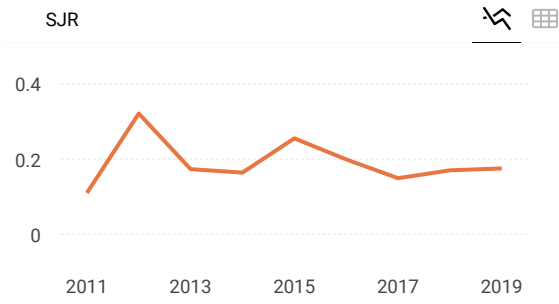
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Sincerelly,

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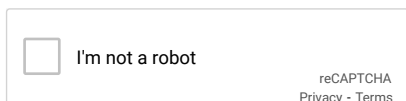
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