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Sutiningsih, D.<sup>a</sup> ✉, Mustofa<sup>b</sup>, Satoto, T.B.T.<sup>c</sup>, Martono, E.<sup>d</sup> 🔍<sup>a</sup>Department of Epidemiology and Tropical Disease, Faculty of Public Health, Diponegoro University, Semarang, Indonesia<sup>b</sup>Department of Pharmacology, Faculty of Medicine, Gadjah Mada University, Yogyakarta, Indonesia<sup>c</sup>Department of Parasitology, Faculty of Medicine, Gadjah Mada University, Semarang, Indonesia[View additional affiliations](#) ▾

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Vector control is still based on the use of chemical insecticides, which can cause death of nontarget animals, pollution and the emergence of vector resistance. This study aims to assess the larvicidal activity of bruceine A against larvae of *Aedes aegypti* and its cytotoxic activity against Vero cells. Extraction and isolation of bruceine A from the seeds of *Brucea javanica* (L.) Merr by method of Subeki. The purity of bruceine A isolate is determined by using a thin layer of chromatography and high performance liquid chromatography. Larvicidal activity of bruceine A on the larvae of *A. aegypti* from instar III until the beginning of instar IV was measured using a bioassay method. The examination of bruceine A cytotoxicity on Vero cells was performed by Micro-culture Tetrazolium assay (MTT). The results showed that mortality of *A. aegypti* larvae increased with increasing concentration of bruceine A. Log probit analysis of the larva mortality showed that the lethal concentration 50 and 90 (LC<sub>50</sub>, LC<sub>90</sub>) were 0.453±0.022 ppm and 4.962±0.681 ppm for 24 h respectively. The cytotoxic activity of bruceine A in Vero cells is low, with inhibitor concentration 50 (IC<sub>50</sub>) values of 1251.324±0.162 µg/mL. Bruceine A has larvicidal activity against *A. aegypti*; therefore, it is a potential natural larvicide with low cytotoxicity. © 2018 Dwi Sutiningsih, Mustofa, Tri Baskoro Tunggul Satoto and Edhi Martono.

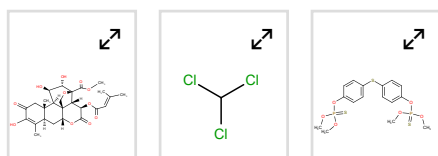
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Dwi Sutiningsih, Mustofa , Tri Baskoro Tunggul Satoto and Edhi  
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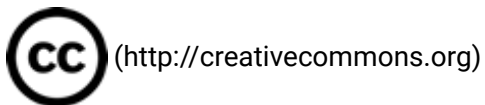
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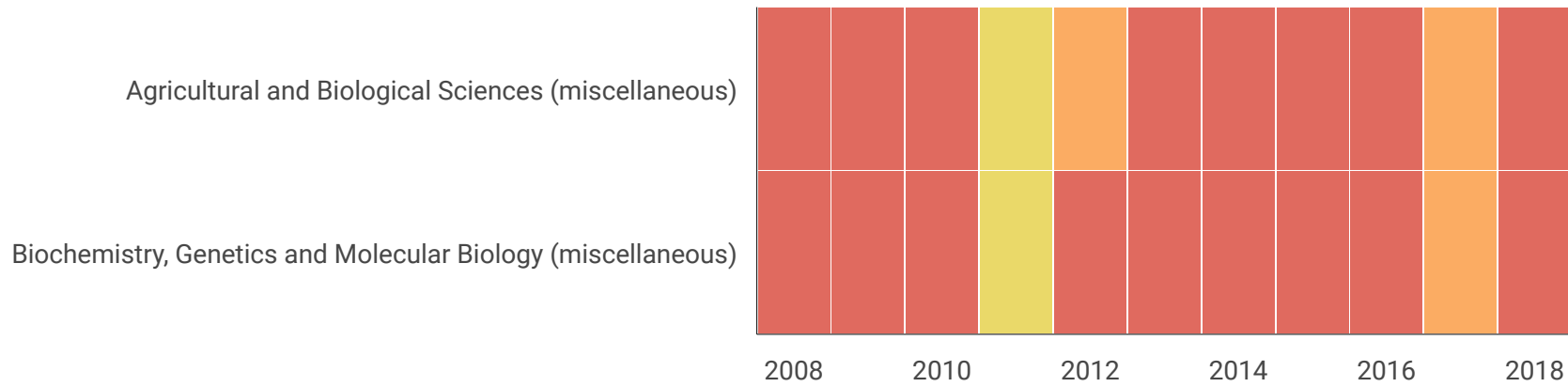
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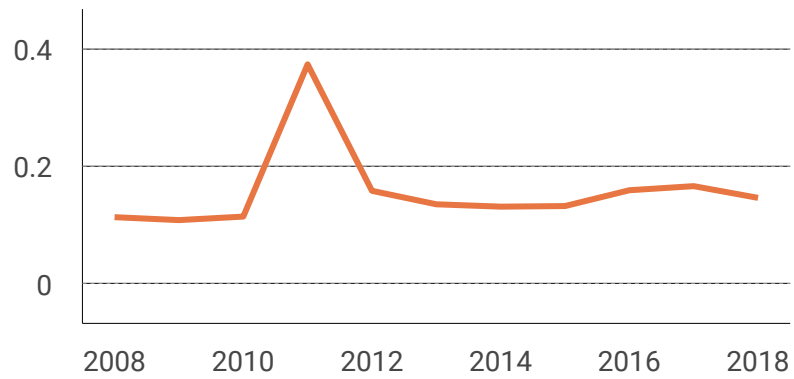


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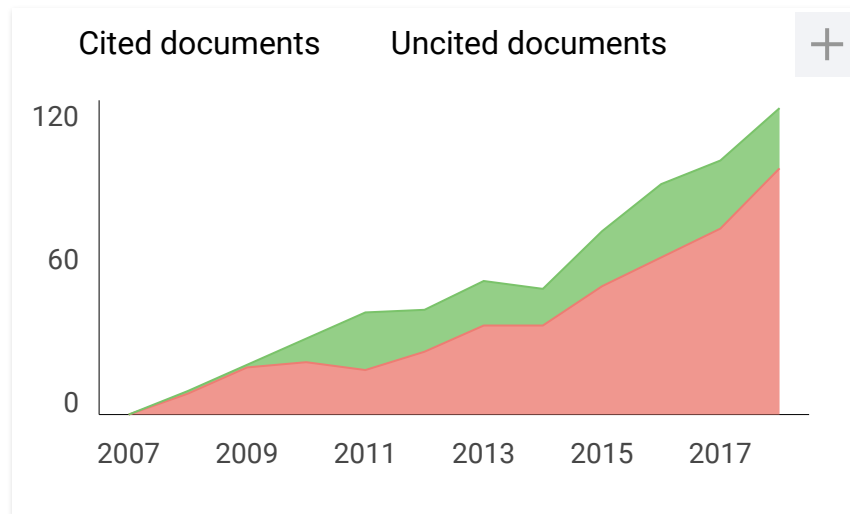
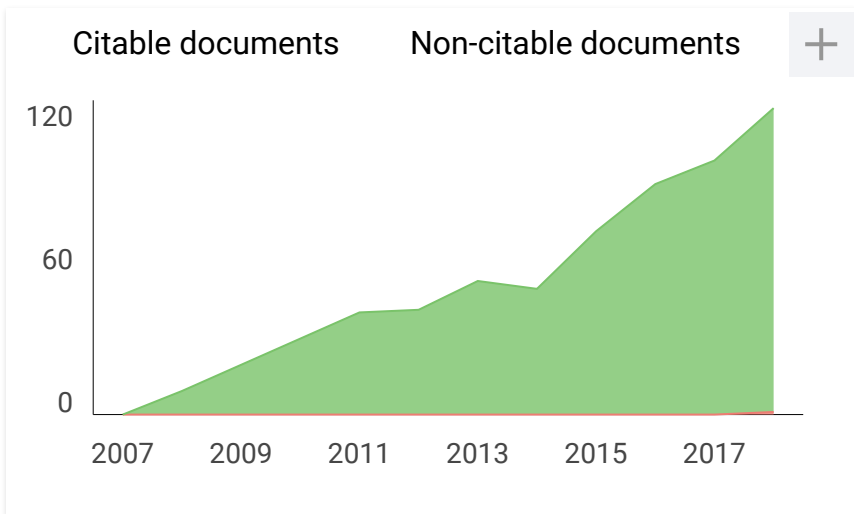
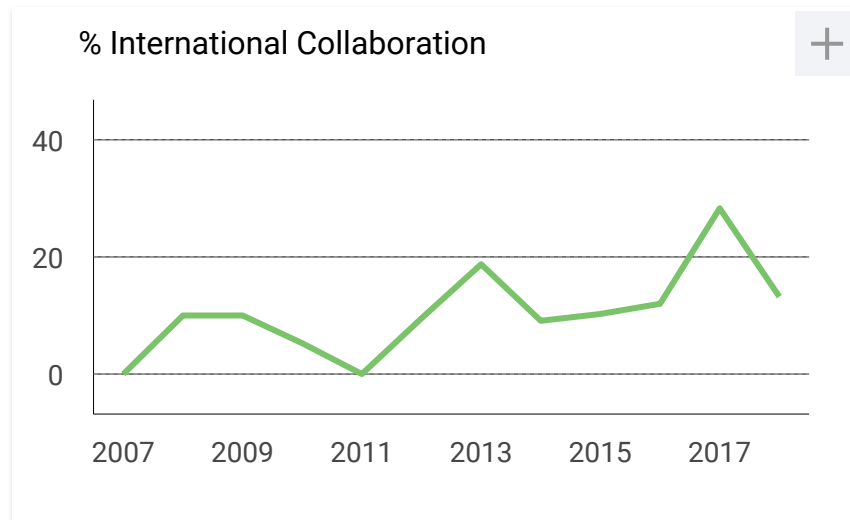
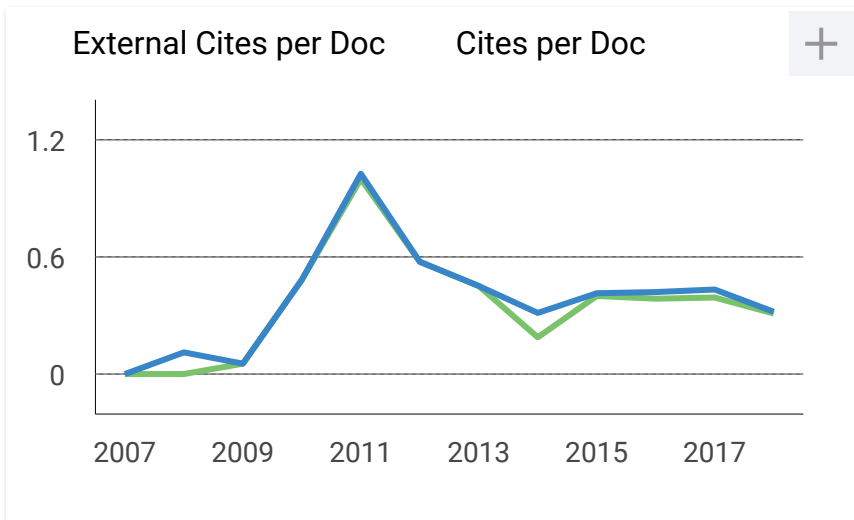
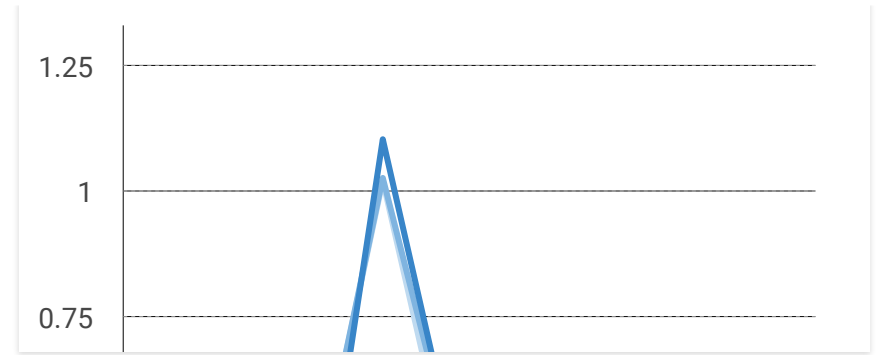
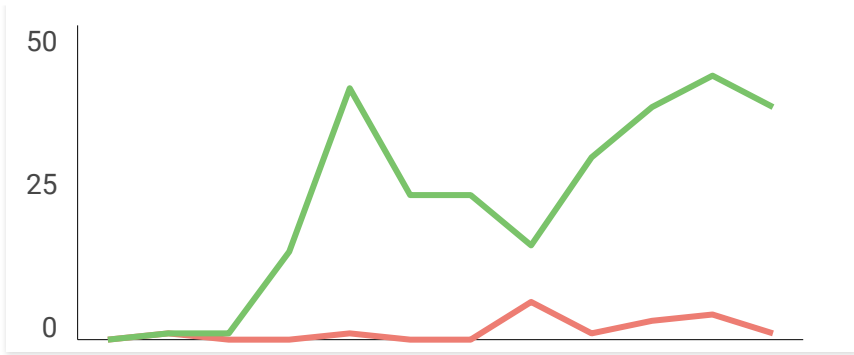
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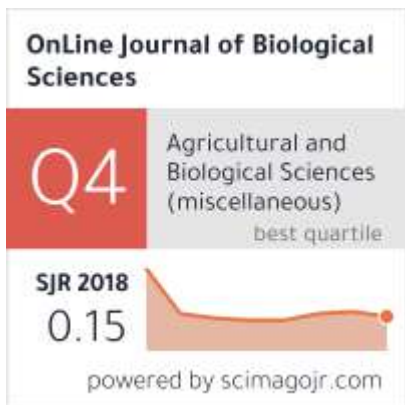


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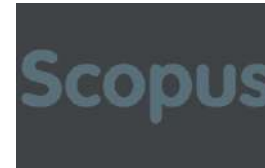
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