

**Salinity-tolerant larvae of mosquito vectors in the  
tropical coast of Jaffna, Sri Lanka and the effect  
of salinity on the toxicity of *Bacillus thuringiensis*  
to *Aedes aegypti* larvae**

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**Abstract**

Dengue, chikungunya, malaria, filariasis and Japanese encephalitis are common mosquito-borne diseases endemic to Sri Lanka. *Aedes aegypti* and *Aedes albopictus*, the major vectors of dengue, were recently shown to undergo pre-imaginal development in brackish water bodies in the island. A limited survey of selected coastal localities of the Jaffna district in northern Sri Lanka was carried out to identify mosquito species undergoing pre-imaginal development in brackish and saline waters. The effect of salinity on the toxicity of *Bacillus thuringiensis israelensis* larvicide to *Ae. aegypti* larvae at salinity levels naturally tolerated by *Ae. aegypti* was examined.