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แผนกสนับสนุนฝ่ายทรัพยากร

อิเล็กทรอนิกส์ทางการศึกษา

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โครงการพัฒนาเครือข่ายระบบห้องสมุดในประเทศไทย (ThaiLIS)

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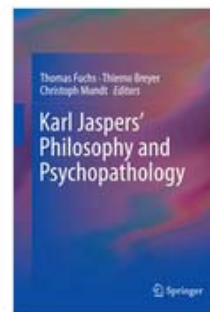
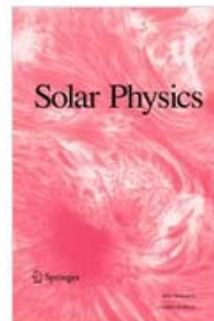


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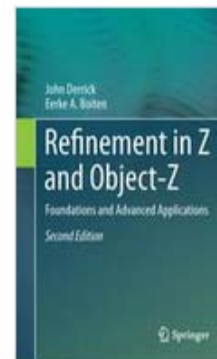
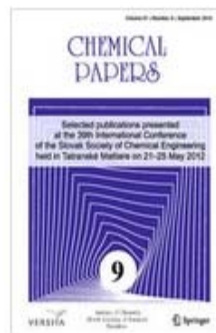
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Article

### Mosquito larvicidal activity of thymol from essential oil of *Coleus aromaticus* Benth. against *Culex tritaeniorhynchus*, *Aedes albopictus*, and *Anopheles subpictus* (Diptera: Culicidae)

Humans have used plant parts, products, and metabolites in vector control since early historical times. Plants are the chemical factories of nature, producing many chemicals, some of which have medicinal and inse...  
Marimuthu Govindarajan, Rajamohan Sivakumar, Mohan Rajeswary... in *Parasitology Research* (2013)

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## Journal Article

Parasitology Research

May 2008, Volume 102, Issue 6, pp 1289-1291

# The essential oil of *Zingiber officinalis* Linn (Zingiberaceae) as a mosquito larvicidal and repellent agent against the filarial vector *Culex quinquefasciatus* Say (Diptera: Culicidae)

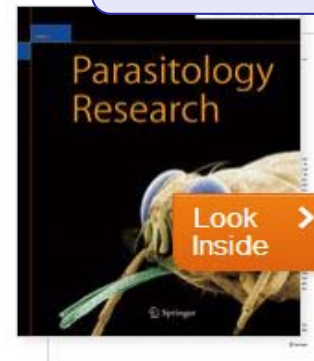
Thambusamy Pushpanathan, Arulsamy Jebanesan, Marimuthu Govindarajan

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## Abstract

Essential oils extracted by steam distillation from *Zingiber officinalis* was evaluated for larvicidal and repellent activity against the filarial mosquito *Culex quinquefasciatus*. The larval mortality was observed after 24 h treated for late third instar. The LC<sub>50</sub> value was 50.78 ppm. Skin repellent test at 1.0, 2.0, 3.0, and 4.0 mg/cm<sup>2</sup> concentration of *Z. officinalis* gave 100% protection up to 15, 30, 60, and 120 min. These results clearly reveal that the essential oil of *Z. officinalis* served as a potential larvicidal and repellent agent against filarial vector *C. quinquefasciatus*.



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Parasitol Res (2008) 102:1289–1291  
DOI 10.1007/s00436-008-0907-6

ORIGINAL PAPER

## The essential oil of *Zingiber officinalis* Linn (Zingiberaceae) as a mosquito larvicidal and repellent agent against the filarial vector *Culex quinquefasciatus* Say (Diptera: Culicidae)

Thambusamy Pushpanathan · Arulsamy Jebanesan ·  
Marimuthu Govindarajan

Received: 1 November 2007 / Accepted: 28 January 2008 / Published online: 17 February 2008  
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**Abstract** Essential oils extracted by steam distillation from *Zingiber officinalis* was evaluated for larvicidal and repellent activity against the filarial mosquito *Culex quinquefasciatus*. The larval mortality was observed after 24 h treated for late third instar. The  $LC_{50}$  value was 50.78 ppm. Skin repellent test at 1.0, 2.0, 3.0, and 4.0 mg/cm<sup>2</sup> concentration of *Z. officinalis* gave 100% protection up to 15, 30, 60, and 120 min. These results clearly reveal that the essential oil of

insecticide which is more powerful, with lesser side effects and degrading after sometime, reducing the change to develop resistance against it. These problems have renewed interest in exploiting the pest control potential of plants. In addition to application as general toxicants against immature mosquitoes, phytochemicals can be used as larvicidal repellents and growth and reproduction inhibitors (Pushpanathan



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