

## **Fumigant and Contact Toxicity and Oviposition Deterrent Effects of Plant Essential Oils on *Bemisia tabaci* (Hemiptera: Aleyrodidae)**

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# Fumigant and contact toxicity and oviposition deterrent effects of plant essential oils on (Hemiptera: Aleyrodidae)

Tufail Ahmed Wagan, Yueping He, Wanlun Cai, Jing Zhao, and Hongxia Hua\*

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**Abstract**

*Stemona japonica* *Acorus tatarinowii* *Heracleum hemsleyanum*  
*Bemisia tabaci*  
*S. japonica* *A. tatarinowii*  
*H. hemsleyanum*  
*A. tatarinowii*  
*H. hemsleyanum* *S. japonica*

**Resumen**

*Stemona japonica* *Acorus tatarinowii* *Heracleum hemsleyanum*  
*Bemisia tabaci*  
*tatarinowii* *S. japonica* *H. hemsleyanum*  
*A. tatarinowii*  
*H. hemsleyanum* *S. japonica*

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*Bemisia tabaci*

*B. tabaci*

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Table 3.

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*Acorus tatarinowii*  
*Heracleum hemsleyanum*  
*Stemona japonica*

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P

*B. tabaci*  
*A. tatarinowii*

*Acorus calamus*

*Acorus*

*A. calamus*

*Liposcelis bostry-*  
*A.*

*chophila*  
*tatarinowii*

*A. tatarinowii*  
*H. hemsleyanum*

*Heracleum*  
*leum*

*Herac-*

*Heracleum*

*P. interpunctella*  
*Heracleum*

*H. hemsleyanum*

*S. japonica*

Table 4.

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*Acorus tatarinowii*  
*Heracleum hemsleyanum*  
*Stemona japonica*

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P

*S. japonica*

*Stemona japonica*

*S. japonica*

*Pediculus corporis*  
*Pthirus pubis*

*S. japonica*

*H. hemsleyanum*

*S. japonica*

*rinowii, H. hemsleyanum*    *S. japonica*    *A. tata-*

*B. tabaci*

*A. tatarinowii*  
*H. hemsleyanum*    *S. japon-*

*ica*

### Acknowledgments

### References Cited

*millefolium*    *Artemisia dracunculus*    *Achillea*  
*Plodia interpunctella*    *Heracleum persicum*

*Bemisia tabaci*    *Eretmocerus mundus*

*Stemona*

*Paecilomyces fumosoroseus*

*ila*

*Acorus calamus*

*Liposcelis bostrychoph-*

*Acorus calamus*

*Bemisia tabaci*

*In*

*Cucumis melo*

*Bemisia tabaci*

*Nilaparvata lugens*

*Heracleum*

*Acorus gramineus*

*Nilaparvata lugens*

*Bemisia tabaci*