

---

**Cover illustration by N. Mwanga Komeri: French bean plant with western flower thrips, *Frankliniella occidentalis*, an important pest of vegetables and ornamentals worldwide.**

# INSECT SCIENCE AND ITS APPLICATION

The International Journal of Tropical Insect Science

Volume 21 Number 1

2001

## CONTENTS

### Foreword

### Review Article

- J. F. VAYSSIÈRES, G. DELVARE, 1  
J. M. MALDÈS and H. P. ABERLENC  
Inventaire préliminaire des arthropodes ravageurs et auxiliaires  
des cultures maraichères sur l'île de la Réunion

### Mini Review

- V. C. UMEH, O. YOUM and F. WALIYAR 23  
Soil pests of groundnut in sub-Saharan Africa—A review

### Research Articles

- M. J. BONHOF, A. VAN HUIS, 33  
F. G. KIROS and N. DIBOGO  
Farmers' perceptions of importance, control methods and natural  
enemies of maize stemborers at the Kenya coast
- M. A. ZAHER, M. A. EL-BOROLOSSY 43  
and F. S. ALI  
Morphological and biological studies on *Typhlodromus talbii*  
Athias-Henriot (Gamasida: Phytoseiidae)
- S. EKESI 55  
Pathogenicity and antifeedant activity of entomopathogenic  
hyphomycetes to the cowpea leaf beetle, *Ootheca mutabilis* Shalberg
- A. K. TRIPATHI, V. PRAJAPATI, 61  
K. K. AGGARWAL and S. KUMAR  
Insecticidal and ovicidal activity of the essential oil of *Anethum*  
*sowa* Kurz against *Callosobruchus maculatus* F. (Coleoptera: Bruchidae)
- T. D. CHERMENSKAYA, V. N. BUROV, 67  
S. P. MANIAR, E. M. POW, N. RODITAKIS,  
O. G. SELYTSKAYA, I. V. SHAMSHEV,  
L. J. WADHAMS and C. M. WOODCOCK  
Behavioural responses of western flower thrips, *Frankliniella*  
*occidentalis* (Pergande), to volatiles from three aromatic plants
- D. O. OGOYI and E. O. OSIR 73  
Variation in lipophorin titres during development in solitary  
and gregarious *Schistocerca gregaria* (Forskål) (Orthoptera: Acrididae)
- B. HURTREL, S. QUILICI, J.-P. 81  
NÉNON and J. LELANNIC  
Preimaginal developmental biology of *Diachasmimorpha tryoni*  
(Cameron), a parasitoid of the Mediterranean fruit fly
- B. S. KILONZO, A. J. NGOMUO, 89  
C. A. SABUNI and G. F. MGOBE  
Effects of *Azadirachta indica* (neem) extract on livestock fleas in  
Morogoro District, Tanzania
- Information for Authors i-ii  
Author Checklist iii

Indexed/Abstracted in  
Current Contents, C. A. B. Abstracts, BIOSIS, Zoological Record, Chemical Abstracts,  
The African Book Publishing Record, TROPAG & RURAL Abstracts and IBIDS database

ISSN 0191-9040  
ISIADL 21(1) 1-92 (2001)



Published and printed by ICIFE Science Press  
P.O. Box 72913, Nairobi, Kenya

Available on-line at <http://www.bioline.org.br>



This issue is sponsored in part by United Nations Education, Scientific and Cultural Organisation (UNESCO)