

Centre for Research in Medical Entomology (ICMR)

Address : 4, Sarojini Street, Chinna Chokkikulam

Madurai - 625 002, Tamil Nadu, INDIA

Ph: +91 452 2520565, 2530746, 2529881, 2525131

Fax: +91 452 2530660

Email: crmeicmr@icmr.org.in

Front Cover :

Molecular biology studies at CRME

This document is a formal publication of the
Centre for Research in Medical Entomology (ICMR), Madurai.
No part, in any form, should be used by anyone without
the permission of the Officer-in-Charge, CRME, Madurai.

All rights reserved by the Institution.

Contents

EXECUTIVE SUMMARY	I
HIGHLIGHTS	II
CRME PROFILE AT A GLANCE	VI

1. JAPANESE ENCEPHALITIS

1.1. Studies on JE in Kurnool district, Andhra Pradesh	1
1.2. JE virus activity in Cuddalore district, Tamil Nadu	5
1.3. Monitoring of JE virus abundance using RS & GIS	9
1.4. JE surveillance network	11
1.5. Susceptibility of <i>Culex tritaeniorhynchus</i> against JE virus in Cuddalore dt.	12

2. LYMPHATIC FILARIASIS

2.1. Role of vector control and MDA in the filariasis elimination campaign	14
2.2. Studies on filariasis elimination as implemented by the Govt. agencies in two revenue blocks of TN	16

3. DENGUE

3.1. Community based dengue vector control under health system in one district (south India) and transfer of technology	22
3.2. Dengue emergence in Kerala	28

4. VECTOR CONTROL

4.1. Laboratory evaluation of a flowable formulation of the metabolite of <i>Pseudomonas fluorescens</i> against the immatures of the mosquito vectors	29
4.2. Report on CRME/DRDE project on Oviposition attracticide trials at Chennai, Tamil Nadu and Thiruvananthapuram, Kerala	32

Contents

5. MOLECULAR BIOLOGY STUDIES

- | | |
|---|----|
| 5.1. Preparation of JE virus antigen in cell culture | 35 |
| 5.2. Identification of flavivirus receptor in adult <i>Tx. splendens</i> mosquito | 36 |
| 5.3. Mosquito pupal exuvium-an alternate source of genomic DNA | 37 |

6. OUTBREAK INVESTIGATIONS

- | | |
|---|----|
| 6.1. Japanese encephalitis epidemic in Gorakhpur, Uttar Pradesh | 39 |
| 6.2. Dengue outbreak in Tiruppur town, Coimbatore District | 42 |

7. INSECTARY

46

8. LIBRARY & INFORMATION

48

9. LIST OF PUBLICATIONS

50

10. SEMINAR / CONFERENCE / SYMPOSIUM ATTENDED

52

11. OTHER ACTIVITIES

58