

### 3. Publications / Patents and Awards

#### 3.1. List of Publications during the year 2005

1. Jambulingam, P., Sahu, S. S. and Manonmani, A. Reappearance of *Anopheles minimus* in Singbhum hills of East-Central India. *Acta Tropica* (2005) **96**, 31-5.
2. Shriram, A. N., Ramaiah, K. D., Krishnamoorthy, K. and Sehgal, S. C. Diurnal pattern of human-biting activity and transmission of subperiodic *wuchereria bancrofti* (filariidea: dipetalonematidae) by *Ochlerotatus niveus* (Diptera: culicidae) on the andaman and nicobar islands of India. *American Journal of Tropical Medicine and Hygiene* (2005) **72**, 273-7.
3. Stolk, W. A., Oortmarssen GJ, V. A. N., Pani, S. P., Vlas SJ, D. E., Subramanian, S., Das, P. K. and Habbema, J. D. Effects of ivermectin and diethylcarbamazine on microfilariae and overall microfilaria production in bancroftian filariasis. *American Journal of Tropical Medicine and Hygiene* (2005) **73**, 881-7.
4. Vanamail, P., Ramaiah, K. D., Subramanian, S., Pani, S. P., Yuvaraj, J. and Das, P. K. Pattern of community compliance with spaced, single-dose, mass administrations of diethylcarbamazine or ivermectin, for the elimination of lymphatic filariasis from rural areas of southern India. *Annals of Tropical Medicine and Parasitology* (2005) **99**, 237-246.
5. Ramaiah, K. D., Vijay Kumar, K. N., Ravi, R. and Das, P. K. Situation analysis in a large urban area of India, prior to launching a programme of mass drug administrations to eliminate lymphatic filariasis. *Annals of Tropical Medicine and Parasitology* (2005) **99**, 243 — 252.
6. Krishnamoorthy, K., Harichandrakumar, K. T., Krishna Kumari, A. and Das, P. K. Years of life lost and productivity loss due to tsunami in India. *Current Science* (2005) **89**, 739-740.
7. Sabesan, S. and Raju, K. H. K. GIS for rural health and sustainable development in India, with special reference to vector-borne diseases. *Current Science* (2005) **80**, 1749-1752.
8. Padmanabhan, V., Prabakaran, G., Paily, K. P. and Balaraman, K. Toxicity of a mosquitocidal metabolite of *Pseudomonas fluorescens* on larvae & pupae of the house fly, *Musca domestica*. *Indian Journal of Medical Research* (2005) **121**, 116-119.
9. Sivagnaname, N., Amalraj, D. D. and Mariappan, T. Utility of expanded polystyrene (EPS) beads in the control of vector-borne diseases. *Indian Journal of Medical Research* (2005) **122**, 291-6.
10. Ananthkrishnan, N. and Pani, S. P. Surgery for vaginal hydroceles: an update - Review. *Indian Journal of Urology* (2005) **21**, 35-38.

11. Pani, S. P., Kumaraswami, V. and Das, L. K. Epidemiology of lymphatic filariasis with special reference to urogenital-manifestations. *Indian Journal of Urology* (2005) **21**, 44-49.
12. Rajavel, A. R., Natarajan, R., Munirathinam, A. and Vaidyanathan, K. The larval habitat of *Verrallina (Verrallina) lugubris* and chaetotaxy of field-collected larvae. *Journal of American Mosquito Control Association* (2005) **21**, 96-7.
13. Rajavel, A. R., Natarajan, R. and Vaidyanathan, K. Mosquito collections in the Jeypore Hill tracts of Orissa, India, with notes on three new country records, *Culex* (Lophoceraomyia) *pilifemoralis*, *Culex* (Lophoceraomyia) *wilfredi*, and *Heizmannia* (Heizmannia) *chengi*. *Journal of American Mosquito Control Association* (2005) **21**, 121-7.
14. Rajavel, A. R., Natarajan, R. and Vaidyanathan, K. Mosquitoes of the mangrove forests of India: part 1—Bhitarkanika, Orissa. *Journal of American Mosquito Control Association* (2005) **21**, 131-5.
15. Rajavel, A. R., Natarajan, R. and Vaidyanathan, K. Mosquitoes of the mangrove forests of India: part 2—Sundarbans, West Bengal. *Journal of American Mosquito Control Association* (2005) **21**, 136-8.
16. Rajavel, A. R., Natarajan, R., Vaidyanathan, K. and Soniya, V. P. A list of the mosquitoes housed in the mosquito museum at the Vector Control Research Centre, Pondicherry, India. *Journal of American Mosquito Control Association* (2005) **21**, 243-51.
17. Nathan, S. T., Nisha, M., Kalyanasundaram, M. and Balaraman, K. Structure of glutathione S-transferase of the filarial parasite *Wuchereria bancrofti*: a target for drug development against adult worm. *Journal of Molecular Modeling* (2005) **11**, 194-9.
18. Balaraman, K. Occurrence and diversity of mosquitocidal strains of *Bacillus thuringiensis*. *Journal of Vector Borne Diseases (Indian Journal of Malariology)* (2005) **42**, 81-86.
19. Sabesan, S., Ravi, R. and Das, P. K. Elimination of lymphatic filariasis in India. *Lancet Infectious Diseases* (2005) **5**, 4-5.
20. Balaraman, K., Sabesan, S., Jambulingam, P., Gunasekaran, K. and Boopathi Doss, P. S. Risk of outbreak of vector-borne diseases in the tsunami hit areas of southern India. *Lancet Infectious Diseases* (2005) **5**, 128-129.
21. Gunasekaran, K., Jambulingam, P., Srinivasan, R., Sadanandane, C., Boopathi Doss, P. S., Sabesan, S., Balaraman, K. and Das, P. K. Malaria receptivity in the tsunami-hit coastal villages of southern India. *Lancet Infectious Diseases* (2005) **5**, 531-2.
22. Krishnamoorthy, K., Jambulingam, P., Natarajan, R., Shriram, A. N., Das, P. K. and Sehgal, S. Altered environment and risk of malaria outbreak in South Andaman, Andaman & Nicobar Islands, India affected by tsunami disaster. *Malaria Journal* (2005) **4**, 30.
23. Paily, K. P., Abidha, Kumar, B. A. and Balaraman, K. Changes in the haemocyte population of the mosquito, *Culex quinquefasciatus*, following infection with the filarial parasite, *Wuchereria bancrofti*. *Med Vet Entomol* (2005) **19**, 116-8.

24. Mary, K. A., Paily, K. P. and Hoti, S. L. Suppression of *Brugia malayi* (sub-periodic) larval development in *Aedes aegypti* (Liverpool strain) fed on blood of animals immunized with microfilariae. *Mem Inst Oswaldo Cruz* (2005) **100**, 403-5.
25. Dominic Amalraj, D., Sivagnaname, N. and Das, P. K. Effect of food on immature development, consumption rate, and relative growth rate of *Toxorhynchites splendens* (Diptera: Culicidae), a predator of container breeding mosquitoes. *Mem Inst Oswaldo Cruz* (2005) **100**, 893-902.
26. Sabesan, S. Lymphatic Filariasis: Early Diagnosis and Treatment. *Physician's Digest* (2005), 28-36.
27. Schellekens, S. M., Shanthi, A., Stolk, W. A., Habbema, J. D. and Ravi, R. Physicians' management of filarial lymphoedema and hydrocele in Pondicherry, India. *Transactions of the Royal Society of Tropical Medicine and Hygiene* (2005) **99**, 75-7.
28. Ramaiah, K. D., Ravi, R. and Das, P. K. Preventing confusion about side effects in a campaign to eliminate lymphatic filariasis. *Trends in Parasitology (Parasitology Today)* (2005).
29. Gunasekaran, K., Sahu, S. S., Jambulingam, P. and Das, P. K. DDT indoor residual spray, still an effective tool to control *Anopheles fluviatilis*-transmitted *Plasmodium falciparum* malaria in India. *Tropical Medicine and International Health (J of Trop Med & Hyg)* (2005) **10**, 160-8.
30. Krishna Kumari, A., Harichandrakumar, K. T., Das, L. K. and Krishnamoorthy, K. Physical and psychosocial burden due to lymphatic filariasis as perceived by patients and medical experts. *Tropical Medicine and International Health (J of Trop Med & Hyg)* (2005) **10**, 567-73.
31. Pani, S.P., Das, L.K., and Vanamail, P. Tolerability and efficacy of a three-age class schedule of Diethylcarbamzine Citrate (DEC) in the treatment of microfilaria carriers of *Wuchereria bancrofti* and its implications in Mass Drug Administration (MDA) strategy for elimination of Lymphatic Filariasis (LF). *J. Commun. Dis.* (2005) **37**, 12.
32. Srinivasan, R., Jambulingam, P., Subramanian, S. and Kalyanasundaram, M. Laboratory evaluation of Fipronil against *Periplaneta Americana* and *Blattella germanica*. *Indian J. Med. Res.* (2005) **122**, 57-66.
33. Das, S.D., Narayanan, S., Hari, L., Hoti, S.L., Thangathurai, R.K., Charles, N., Jaggarajamma, K. and Narayanan, P.R. Differentiation of highly prevalent IS6110 single-copy strains of *Mycobacterium tuberculosis* from a rural community in South India with an ongoing DOTS programme. *Infection, Genetics Evolution* (2005) **5**, 67-77.

### 3.2. Patents

Microbial fermentation process from bird feather for the production of bio-pesticides (Dr.S.Poopathi) Indian Patent Application No. 319/Del/2005.

Lethal mosquito attractant and preparation thereof (Dr.S.Poopathi) Indian Patent Application No. 358/Del/2005

### 3.3. Awards

Dr. S. Subramanian has been awarded the Prof. B.G. Prasad Gold Medal 2005 for the best paper published on the application of biostatistics in epidemiology for his paper entitled "The dynamics of *Wuchereria bancrofti* infection: a model based analysis of longitudinal data from Pondicherry, India" *Parasitology*, **128** (2004): 467-482.