

Research Papers Published (2007)

1. Alam MT, Bora H, Bharti PK, Saifi MA, Das MK, Dev V, Kumar A, Singh N, Dash AP, Das B, Wajihullah, Sharma YD. Similar trends of pyrimethamine resistance-associated mutations in *Plasmodium vivax* and *P. falciparum*. *Antimicrob Agents Chemother* 2007; 51: 857–63.
2. Alam MT, Das MK, Dev V, Ansari MA, Sharma YD. Identification of two cryptic species in the *Anopheles (Cellia) annularis* complex using ribosomal DNA PCR-RFLP. *Parasitol Res* 2007; 100: 943–8.
3. Alam MT, Das MK, Dev V, Ansari MA, Sharma YD. PCR-RFLP method for the identification of four members of the *Anopheles annularis* group of mosquitoes (Diptera : Culicidae). *Trans R Soc Trop Med Hyg* 2007; 101: 239–44.
4. Bajaj R, Mohanty S, Dash AP, Das A. Fine-scale genetic characterization of *Plasmodium falciparum* chromosome 7 encompassing the antigenic var and the drug-resistant Pfcrt genes. *J Genet* 2007; 87.
5. Biswas S, Seth RK, Tyagi PK, Sharma SK, Dash AP. Naturally acquired immunity and reduced susceptibility to falciparum malaria in two subpopulations of endemic eastern India. *Scand J Immunol* 2007; 67: 177–84.
6. Biswas Sukla, Seth Ratanesh K, Sharma Geeta, Dash AP. A longitudinal investigation of *Plasmodium falciparum* malaria in children in northern India. *Scand J Infect Dis* 2007; 6: 1–8.
7. Das A, Bajaj R, Mohanty S, Swain V. Genetic diversity and evolutionary history of *Plasmodium falciparum* and *P. vivax*. *Curr Sci* 2007; 92: 1516–24.
8. Das A, Dash AP. Evolutionary paradigm of chloroquine-resistant malaria in India. *Trends Parasitol* 2007; 23: 132–5.
9. Dash AP, Adak T, Raghavendra K, Singh OP. The biology and control of malaria-vectors in India. *Curr Sci* 2007; 92: 1571–8.
10. Dash AP, Raghavendra K, Pillai MK. Resurrection of DDT : a critical appraisal. *Indian J Med Res* 2007; 126: 1–3.
11. Dev V, Dash AP. Rainfall and malaria transmission in north-eastern India. *Ann Trop Med Parasitol* 2007; 101: 457–9.
12. Dua VK, Gupta NC, Sethi P, Edwards G, Dash AP. High performance liquid chromatographic assay for the determination of sulfadoxine and N-acetyl sulfadoxine in plasma from patients infected with sensitive and resistant *Plasmodium falciparum* malaria. *J Chromatogr B Analy Technol Biomed Life Sci* 2007; 860: 160–5.
13. Dua, VK, Pandey AC, Rai S, Dash AP. Larvicidal activity of *Poecilia reticulata* against *Culex quinquefasciatus* larvae in a polluted water drain in Hardwar. *J Am Mosq Control Assoc* 2007; 23: 481–3.
14. Eapen A, Ravindran KJ, Joshi H, Dhiman RC, Balavinayagam S, Mallick PK, Kumar R, Rajendran C, Selvakumar AD, Dash AP. Detection of *in vivo* chloroquine resistance in *Plasmodium falciparum* from Rameswaram Island, a pilgrim centre in southern India. *Ann Trop Med Parasitol* 2007; 101: 305–13.
15. Garg S, Alam MT, Das MK, Dev V, Kumar A, Dash AP, Sharma YD. Sequence diversity and natural selection at domain of the apical membrane antigen 1 among

- Indian *Plasmodium falciparum* populations. *Malar J* 2007; 6: 154.
16. Ghosh SK, Dash AP. Larvivorous fish against malaria vectors: a new outlook. *Trans R Soc Trop Med Hyg* 2007; 101: 1063-4.
17. Hawkins Vivian N, Joshi H, Rungsihirunrat K, Na-Bangchang K, Sibley CH. Antifolates can have a role in the treatment of *Plasmodium vivax*. *Trends Parasitol* 2007; 23: 213-22.
18. Joshi H, Valecha N, Verma A, Kaul A, Mallick PK, Shalini S, Prajapati SK, Sharma SK, Dev V, Biswas S, Nanda N, Malhotra MS, Subbarao SK, Dash AP. Genetic structure of *Plasmodium falciparum* field isolates in eastern and north-eastern India. *Malar J* 2007; 6: 60.
19. Kar P, Dash AP, Supakar PC. Polymorphism study of rhoptry associated membrane antigen (RAMA) gene of *Plasmodium falciparum*: a putative vaccine candidate. *Mol Biochem Parasitol* 2007; 155: 156-60.
20. Kumar Ashwani, Valecha N, Jain T, Dash AP. Burden of malaria in India: retrospective and prospective view. *Am J Trop Med Hyg* 2007; 77: 69-78.
21. Mamillapalli A, Sunil S, Diwan SS, Sharma SK, Tyagi PK, Adak T, Joshi H, Malhotra P. Polymorphism and epitope sharing between the alleles of merozoite surface protein-1 of *Plasmodium falciparum* among Indian isolates. *Malar J* 2007; 6: 95.
22. Mishra K, Raj DK, Hazra RK, Dash AP, Supakar PC. The development and evaluation of a single step multiplex PCR method for simultaneous detection of *Brugia malayi* and *Wuchereria bancrofti*. *Mol Cell Probes* 2007; 21: 355-62.
23. Mittal PK, Yadav S, Batra CP, Adak T. Laboratory evaluation of Phenthroate against *Anopheles culicifacies*, *Anopheles stephensi* and *Culex quinquefasciatus* and its cross resistance to malathion. *Pest Res J* 2007; 19: 79-81.
24. Mohanty A, Kar P, Mishra K, Singh DV, Mohapatra N, Kar SK, Dash AP, Hazra RK. Multiplex PCR assay for the detection of *Anopheles fluviatilis* species complex, human host preference, and *Plasmodium falciparum* sporozoite presence, using a unique mosquito processing method. *Am J Trop Med Hyg* 2007; 76: 837-43.
25. Pandey V, Agrawal V, Raghavendra K, Dash AP. Strong larvicidal activity of three species of Spilanthes (Akarkara) against malaria (*Anopheles stephensi* Liston, *Anopheles culicifacies*, species C) and filaria vector (*Culex quinquefasciatus* Say). *Parasitol Res* 2007; 102: 171-4.
26. Plowe CV, Roper C, Barnwell JW, Happi CT, Joshi HH, Mbacham W, Meshnick SR, Mugittu K, Naidoo I, Price RN, Shafer RW, Sibley CH, Sutherland CJ, Zimmerman PA, Rosenthal PJ. World antimalarial resistance network (WARN) III: molecular markers for drug resistant malaria. *Malar J* 2007; 6: 121.
27. Prajapati SK, Joshi H, Valecha N, Reetha AM, Eapen A, Kumar A, Das MK, Yadav RS, Rizvi MA, Dash AP. Allelic polymorphism in the *Plasmodium vivax* dihydrofolate reductase gene among Indian field isolates. *Clin Microbiol Infect* 2007; 13: 331-4.
28. Rao VG, Dash AP, Agrawal MC, Yadav RS, Anvikar AR, Vohra S, Bhondeley MK, Ukey MJ, Das SK, Minocha RK, Tiwari BK. Cercarial dermatitis in central India: an emerging health problem among tribal communities. *Ann Trop Med Parasitol* 2007; 101: 409-13.
29. Reetha AM, Sharma SK, Tyagi PK, Valecha N, Nagpal BN, Dash AP. Operational feasibility of rapid diagnostic kits and blister packs use for malaria control in high transmission areas of Orissa and Chhattisgarh. *Indian J Med Res* 2007; 125: 65-72.
30. Rodrigues J, Agrawal N, Sharma A, Malhotra P, Adak T, Chauhan VS, Bhatnagar RK. Transcriptional analysis of an immune-responsive serine protease from Indian malarial vector,

- Anopheles culicifacies*. *BMC Molecular Biology* 2007; 8: 33.
31. Sharma A. Malarial protease inhibitors: potential new chemotherapeutic agents. *Curr Opin Investig Drugs* 2007; 8: 642–52.
 32. Sharma SN, Shukla RP, Mittal PK, Adak T, Subbarao Sarala K. Insecticide resistance in malaria vector *Anopheles culicifacies* in some tribal districts of Chhattisgarh, India. *Curr Sci* 2007; 92: 1280–2.
 33. Shukla RP, Sharma SN, Dhiman RC. Seasonal prevalence of malaria vectors and its relationship with malaria transmission in three physiographic zones in Uttarakhand State, India. *J Vector Borne Dis* 2007; 44: 75–7.
 34. Siddiqui AA, Singh N, Sharma YD. Expression and purification of a *Plasmodium vivax* antigen - PvTARAg55 tryptophan and alanine-rich antigen and its immunological responses in human subjects. *Vaccine* 2007; 26: 96–107.
 35. Sohail M, Kaul A, Bali P, Raziuddin M, Singh MP, Singh OP, Dash AP, Adak T. Alleles-308A and -1031C in the TNF- α gene promoter do not increase the risk but associated with circulating levels of TNF- α and clinical features of vivax malaria in Indian patients. *Mol Immunol* 2007.
 36. Sohail M, Kaul A, Raziuddin M, Adak T. Decreased glutathione-s-transferase activity: diagnostic and protective role in vivax malaria. *Clin Biochem* 2007; 40: 377–82.
 37. Sreehari U, Mittal PK, Razdan RK, Ansari MA, Rizvi MM, Dash AP. Efficacy of PermaNet 2.0 against *Anopheles culicifacies* and *Anopheles stephensi*, malaria vectors in India. *J Am Mosq Control Assoc* 2007; 23: 220–3.
 38. Sreehari U, Razdan RK, Mittal PK, Ansari MA, Rizvi MM, Dash AP. Impact of Olyset nets on malaria transmission in India. *J Vector Borne Dis* 2007; 44: 137–44.
 39. Srivastava HC, Rajnikant, Sharma SK. Relationship between malaria and socio-cultural aspects in villages along the River Mahi in Central Gujarat. *J Indian Med Assoc* 2007; 105: 304–6.
 40. Thomas C, Shalini S, Raghavendra N, Choudhary M, Verma A, Joshi H, Dash AP, Das A. Development of nuclear DNA markers for evolutionary studies in *Plasmodium falciparum*. *J Genet* 2007; 86: 65–68.
 41. Tiwary M, Naik SN, Tiwary DK, Mittal PK, Yadav S. Chemical composition and larvicidal activities of the essential oil of *Zanthoxylum armatum* DC (Rutaceae) against three mosquito vectors. *J Vector Borne Dis* 2007; 44: 198–204.
 42. Valecha N, Bhatia S, Mehta S, Biswas S, Dash AP. Congenital malaria with a typical presentation: a case report from low transmission area in India. *Malar J* 2007; 6: 43.
 43. Vinayak S, Alam MT, Upadhyay M, Das MK, Dev V, Singh N, Dash AP, Sharma YD. Extensive genetic diversity in the *Plasmodium falciparum* Na^+/H^+ exchanger-1 transporter protein implicated in quinine resistance. *Antimicrob Agents Chemother* 2007; 51: 4508–11. □