

BRIEF BIODATA

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| Name | Dr. Anil Prakash |
| Designation | Scientist G |
| Date of joining in ICMR | 13th July, 1994 |
| Educational Qualification | M.Sc., Ph.D. |
| Award/Fellowship/Membership | <p><u>Awards</u></p> <p>*Admitted as <i>Fellow of the National Academy of Sciences, India (FNASc)</i> in July 2014</p> <p>* Recipient of <i>Best Scientist Award for Environmental Science 2013</i> of National Academy of Vector Borne Diseases, Bhubaneswar</p> <p>* Recipient of <i>Scientist of the Year Award-2009</i> of National Environmental Science Academy, New Delhi</p> <p>* Admitted as <i>Fellow of The Entomological Society of India (FESI)</i></p> <p>* Recipient of <i>ICMR Prize for Biomedical Research for Scientists belonging to Underdeveloped Areas</i> for the year 2002</p> <p>* Recipient of <i>Scientist of the Year Award-2001</i> of National Environmental Science Academy, New Delhi</p> <p>* Recipient of <i>Best Performance Award</i> for the years 1981, 1983 and 1984 of Union Carbide India Limited, Bhopal</p> <p><u>Fellowships</u></p> <p>* Recipient of 6 weeks <i>WHO Fellowship in Epidemiology and Biostatistics</i> at Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand in 2002.</p> |

* Recipient of ***Commonwealth Professional Fellowship 2004*** at University of Manchester for 3 months duration (20.1.2005 – 15.4.2005)

Membership

1. National Academy of Sciences, India
2. National Academy of Vector Borne Diseases
3. National Environment Science Academy
4. Indian Society for Malaria and other Communicable Diseases
5. Indian Society for Parasitology
6. Indian Society of Advancement of Insect Sciences
7. Entomological Society of India
7. Entomology Academy of India

Foreign visits

* Yongon, Myanmar to attend WHO Inter country Consultation Meeting on Roll Back Malaria Technical Services Networks (25.6.2001 – 28.6.2001)

* Yogyakarta, Indonesia to attend WHO Inter-country Consultative Meeting of the National Malaria Control Programme Managers (6.11.2001-10.11.2001)

* Mahidol University, Bangkok, Thailand (2.9.2002 - 11.10.2002) to avail WHO Fellowship 2002 in Epidemiology and Biostatistics at

* Bellinzona, Switzerland to attend 14th European conference of Society for

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| | <p>Vector Ecology (3.9.2003-6.9.2003)</p> <p>* University of Manchester, UK (20.1.2005 – 15.4.2005) to avail Commonwealth Professional Fellowship 2004</p> <p>* University at Chiang Mai, Thailand to attend International Workshop on RISKMODEL: Predicting the risks of mosquito borne diseases from land use change (26.9.2005–27.9.2005)</p> <p>* CDC, Atlanta, USA to attend Training Workshop on Advanced Techniques in <i>Anopheles</i> Culture (6.8.2007 -10.8.2007)</p> <p>* University of Bamako, Mali (West Africa) to attend WHO/TDR sponsored Training Course on Laboratory Biosafety and Biosecurity aspects in relation to Genetically Modified Vectors (GMV) for Disease Control (3.12.2008-7.12. 2008)</p> <p>* University of Manchester, UK to attend Project Review Meeting of The Wellcome Trust Funded project (22.5.2011-27.5. 2011)</p> |
| Thrust Area/Specialization | Malaria : Vector Biology and Control / Entomology |
| Publications | Annexure - 1 |
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Photograph (JPEG format)



ANNEXURE-I (Publications)

1. Bennett KL, Shija F, Linton YM, Misinzo G, Kaddumukasa M, Djouaka R, Anyaele O, Harris A, Irish S, H'laing T, **Prakash A**, Lutwama J, Walton C. Historical environmental change in Africa drives divergence and admixture of *Aedes aegypti* mosquitoes: a precursor to successful worldwide colonization ? *Mol Eco* 2016 ; 25 : 4337 – 4354 (IF 5.94)
2. Gahtori P, Pandey R, Kumar V, Ghosh SK, Das A, Kalita JM, Sahu S, **Prakash A**, Bhattacharyya DR. Toward resistance-compromised DHFR inhibitors part I : Combined structure/ligand-based virtual screening and ADME-Tox profiling. *J Chemometrics* 2016 ; 30 : 1-20 (DOI 10.1002/cem.2814) (IF 1.873)
3. Gohain N, **Prakash A**, Gogoi K, Bhattachrya DR , Sarma NP Kalita MC. An ethnobotanical survey of anti-malarial plants in some highly malaria affected districts of Assam. *Int J Pharm Pharm Sci* 2015 ; 7 (9) : 147-152 (IF 0.55)
4. Bhat HR, Singh UP, Thakur A, Ghosh SK, Gogoi K, **Prakash A**, Singh RK. Synthesis, antimalarial activity and molecular docking of hybrid 4-aminoquinoline-1,3,5-triazine derivatives. *Experimental Parasitology* 2015 ; 157: 59-67 (IF 1.86)
5. Sarma NP, Singh S, 2, Sarma DK, Bhattacharyya DR, Kalita MC, Mohapatra PK, Dohutia C, Mahanta J, **Prakash A**. Mitochondrial DNA based Genetic Diversity of *Anopheles nivipes* in North East India. *Mitochondr DNA* 2015 ; 26 (1): 1-4 (IF 1.7)
6. Dohutia C, Bhattacharyya DR, Sharma SK, Mohapatra PK, Bhattacharjee K, K. Gogoi K, Gogoi P, Mahanta J, **Prakash A**. Larvicidal activity of few select indigenous plants of North East India against disease vector mosquitoes (Diptera: Culicidae). *Trop Biomed* 2015; 32 (1): 17 -23 : (IF 0.92)
7. Kemppainen P, Knight CG, Sarma DK, Hlaing T, **Prakash A**, Maung YNM, Somboon P, Mahanta J, Walton C. Linkage disequilibrium network analysis (LDna) gives a global view of chromosomal inversions, local adaptation and geographic structure. *Mol Ecol Resour* 01/2015; DOI: 10.1111/1755-0998.12369 (IF 5.62)
8. Bhat HR, Singh UP, Gahtori P, Ghosh SK, Gogoi K, **Prakash A**, Singh RK. Synthesis, docking, *in vitro* and *in vivo* antimalarial activity of hybrid 4-aminoquinoline-1,3,5-triazine derivatives against wild and mutant malaria parasites. *Chem Biol Drug Des* 2014; 84 (6) : DOI: 10.1111/cbdd.12490

9. Bhattacharyya DR, Rajavel AR, Natarajan R, Mohapatra PK, Jambulingam P, Mahanta J, **Prakash A**. Faunal richness and the checklist of Indian mosquitoes (Diptera:Culicidae). *Check List* 2014; 10 (6) : 1342-1358

10. Neafsey DE, Waterhouse RM, Abai MR, Aganezov SS, Alekseyev MA, Allen JE, Amon J, Arca B, Arensburger, Artemov G, Assour LA, Basseri H, Berlin A, Birren, BW, Blandin SA, Brockman AI, Thomas R, Burkot TR, Burt A, Chan CS, Chauve C, Chiu JC, Christensen M, Costantini C, Davidson VLM, Deligianni E, Dottorini T, Dritsou V, Gabriel SB, Guelbeogo WM, Hall AB, Han MV, Hlaing T, Hughes DST, Jenkins AM, Jiang X, Jungreis I, Kakani EG, Kamali M, Kempainen P, Kennedy RC, Kirmitzoglou IK, Koekemoer LL, Laban N, Langridge N, Lawniczak MKN, Lirakis M, Lobo NF, Lowy E, MacCallum RM, Mao C, Maslen G, Mbogo C, McCarthy J, Michel K, Mitchell SN, Wendy Moore, Murphy KA, Naumenko AN, Nolan T, Novoa EM, O'Loughlin S, Oringanje C, Oshaghi MA, Pakpour N, Papathanos PA, Peery AN, Povelones M, **Anil Prakash**, Price DP, Rajaraman A, Reimer LJ, Rinker DC, Rokas A, Russell TL, Sagnon N, Sharakhova MV, Shea T, Simão FA, Simard F, Slotman MA, Somboon P, Stegny V, Struchiner CJ, Thomas GWC, Tojo M, Topalis P, Tubio JMC, Unger MF, Vontas J, Walton C, Wilding CS, Willis JH, Wu Y, Yan G, Zdobnov EM, Zhou X, Catteruccia F, Christophides GK, Collins FH, Cornman RS, Crisanti A, Donnelly MJ, Emrich SJ, Fontaine MC, Gelbart W, Hahn MW, Hansen IA, Howell PI, Kafatos FC, Kellis MJ, Lawson D, Louis C, Luckhart S, Muskavitch MAT, Ribeiro JM, Riehle MA, Sharakhov IV, Tu Z, Zwiebel LJ, Besansky NJ. Highly evolvable malaria vectors: The genomes of 16 Anopheles mosquitoes. *Science*, 2015; 347 (6217): 1258522 (DOI: 10.1126/science.1258522)

11. Mohapatra PK, Sarma DK, **Prakash A**, Bora K, Ahmed A, Sarma B, Bhattacharyya DR, Goswami BK, Mahanta J. Molecular evidence of increased resistance to antifolate drugs in *Plasmodium falciparum* in north-east India: a signal for potential failure of artemisinin plus sulphadoxine-pyrimethamine combination therapy. *PLOS one* 2014; 9 (9): e-105562.doi: 10.1371/journal.pone.0105562

12. Borkatoky BJ, Sarma K, Parida P, **Prakash A**, Mohapatra PK, Mahanta J. In Silico screening of antifolate based novel inhibitors from *Brucea mollis* Wall. Ex Kurz against quadruple mutant drug resistant PfDHFR. *Com Chem and High T Scr* 2014; 17 (8): 681-693 DOI: 10.2174/1386207317666140521153305

13. Sarma DK, Singh S, Bhattacharyya DR, Mohapatra PK, Sarma NP, Ahmed GU, Mahanta J, **Prakash A**. Suitability of the boiling method of DNA extraction in mosquitoes for routine molecular analyses. *Intl J Mosq Res* 2014; 1 (3): 15-17

14. Sarma DK, Mohapatra PK, Bhattacharyya DR, Mahanta J, **Prakash A**. Genotyping of chloroquine resistant *Plasmodium falciparum* in wild caught *Anopheles minimus* mosquitoes in a malaria endemic area of Assam, India. *Trop Biomed* 2014 ; 31(3): 557-561

15. Roy S, Chetia D, Rudrapal M, **Prakash A**. Synthesis and antimalarial activity study of some new mannich bases of 7-chloro-4 aminoquinoline. *Med Chem Res* 2013; 9: 379-383
16. Dutta P, Khan SA, Topno R, Chowdhury P, Baishya M, **Prakash A**, Bhattacharyya DR, Mahanta J. Genetic analyses of ribosomal loci of *Anopheles minimus* species from North east India. *Trop Biomed* 2013 ; 30 : 550-556
17. Bhat HR, Singh UP, Gahtori P, Ghosh SK, Gogoi K, **Prakash A**, Singh RK. 4-aminoquinoline-1,3,5-triazine: Design, synthesis, *in vitro* antimalarial activity and docking studies. *New J. Chem* 2013; 37: (DOI 10.1039/C3nj00317e)
18. Bhat HR, Singh UP, Gahtori P, Ghosh SK, Gogoi K, **Prakash A**, Singh RK. Antimalarial activity and docking studies of novel bi-functional hybrids derived from 4-aminoquinoline and 1,3,5-triazine against wild and mutant malaria parasites as *pf*-DHFR inhibitor. *RSC Adv* 2013 ; 3: 2942 (DOI 10.1039/c2ra21915H)
19. **Prakash A**, Sharma SK, Mohapatra PK, Bhattacharjee K, Gogoi K, Gogoi, P, Mahanta, J, Bhattacharyya DR. *In vitro* and *in vivo* antiplasmodial activity of the root extracts of *Brucea mollis* Wall. ex Kurz. *Parasitology Res* 2013; 112: 637-642 (DOI 10.1007/s00436-012-3178-1)
20. Majee RN, Bhattacharyya A, Jaiswal AK, Bhattacharyya DR, **Prakash A**. Syntheses of 1,9-nonanedioldiacetate and 1,7-heptanedioldiacetate mosquito repellent from aleuritic acid of lac resin. *J Indian C Soc* 2013 ; 90(1): 109-110 (IF 0.25)
21. Singh S, **Prakash A**, Yadav RNS, Mohapatra PK, Sarma NP, Sarma DK, Mahanta J, Bhattacharyya DR. *Anopheles (Cellia) maculatus* gp: its spatial distribution and molecular characterization of member species in north-east India. *Acta Trop* 2012 ; 124: 62-70 <http://dx.doi.org/10.1016/j.actatropica.2012.06.011>
22. Sarma DK, **Prakash A**, O'loughlin SM, Bhattacharyya DR, Mohapatra PK, Bhattacharjee K, Das K, Singh S, Sarma NP, Ahmed GU, Walton C, Mahanta J. Genetic population structure of the malaria vector *Anopheles baimaii* (Diptera : Culicidae) in the north-east India using mitochondrial DNA. *Malaria J* 2012 : 11:76 : doi 10.1186/1475-2875-11-76
23. Bhat HR, Ghosh SK, **Prakash A**, Gogoi K, Singh UP. *In vitro* antimalarial activity and molecular docking analysis of 4-aminoquinoline clubbed 1,3,5-triazine derivatives. *Letters in Applied Microbiology* 2012 ; 54 (5): 483-486 doi 10.1111/j.1472-765X.2012.03234.x
24. Sarma NP, **Prakash A**, Bhattacharyya DR, Kalita MC, Mohapatra PK, Singh S, Sarma DK, Mahanta J. Spatial distribution and molecular characterization of *Anopheles nivipes*

and *Anopheles philippinensis* (Diptera: Culicidae) in north-east India. *Acta Trop* 2012; 122: 247-254 (doi:10.1016/j.actatropica.2012.02.065)

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26. Roy S, Chetia D, Rudrapal M, **Prakash A**. Synthesis and in vitro antimalarial activity of some new 4-Aminoquinoline Mannich base derivatives. *Int J Drug Des Discovery* 2012; 3 (2): 803-808.
27. Gahtori P, Ghosh SK, Parida P, **Prakash A**, Gogoi K, Bhat HR, Singh UP. Antimalarial evaluation and docking studies of hybrid phenylthiozoly-1,3,5-triazine derivatives: A novel and potential antifolate lead for Pf-DHFR-TS inhibition. *Exp Parasitol* 2012; 130(3) : 292 – 299.
28. Morgan K, O’Loughlin SM, Chen B, Linton YM, Thongwat D, Somboon P, Fong MY, Butlin R, Verity R, **Prakash A**, Htun PT, Hlaing T, Nambanya S, Socheat D, Trung HD, Dinh TH, Walton C. Comparative phylogeography reveals a shared impact of pleistocene environmental change in shaping genetic diversity within nine *Anopheles* mosquito species across the Indo-Burma biodiversity hotspot. *Mol Eco* 2011; 20: 4533-4549 (published online 10 Oct, 2011): doi: 10.1111/j.1365-294X.2011.05268.x
29. Mohapatra PK, **Prakash A**, Mahanta J. Antimalarial resistance in northeast. *Health for Millions* 2011; 37 (2) : 34-39
30. Kumawat MK, Singh UP, Singh B, **Prakash A**, Chetia D. Synthetis and antimalarial activity evaluation of 3-(3-(7-chloroquinolin-4-ylamino)propyl)-1,3-thiazinan-4-one derivatives. *Arabian Journal of Chemistry*, 2011, doi:10.1016/j.arabic.2011.07.007
31. Bhat HR, Singh UP, Yadav PS, Kumar V, Gahtori P, Das A, Chetai D, **Prakash A**, Mahanta J. Synthesis, characterization and antimalarial activity of hybrid 4-aminoquinoline-1,3,5-triazine derivatives . *Arabian Journal of Chemistry* 2011; doi:10.1016/j.arabjc.2011.07.001
32. Bora S, Chetia D, **Prakash A**. Synthesis and antimalarial activity evaluation of some isoquine analogues. *Med Chem Res*, 2011 ; 20 (9): 1632-1637 (doi: 10.1007/s00044-010-9460-9)
33. Dutta P, **Prakash A**, Bhattacharyya DR, Khan SA, Gogoi PR, Sharma CK, Mahanta J. Mosquito biodiversity of Dibru-Saikhowa biosphere reserve in Assam, India. *J Environ Biol* 2010 ; 31 : 695 – 699.

34. Singh B, Chetia D, Puri SK, Srivastava K, **Prakash A**. Synthesis and *in vitro* and *in vivo* antimalarial activity of novel 4-anilinoquinoline Mannich base derivatives. *Med Chem Res*, 2011 ; 20 (9) : 1523 – 1529 doi 10.1007/s00044-010-9397-z
35. Bhattacharyya DR, **Prakash A**, Sarma NP, Mohapatra PK, Singh S, Sarma DK, Kalita MC, Mahanta J. Molecular evidence for the involvement of *Anopheles nivipes* (Diptera : Culicidae) in the transmission of *Plasmodium falciparum* in north-eastern India. *Annals Trop Med Parasitol* 2010 ; 104 (4) : 331 – 336.
36. **Prakash A**, Sarma DK, Bhattacharyya DR, Mohapatra PK, Bhattacharjee K, Das K, Mahanta J. Spatial distribution and r-DNA second internal transcribed spacer characterization of *Anopheles dirus* (Diptera : Culicidae) complex species in north-east India. *Acta Trop* 2010 ; 114 (1) : 49 – 54.
37. Hlaing T, Tun-Lin W, Somboon P, Socheat D, Setha T, Min S, Thaug S, Anyaele O, De Silva B, Chang MS, **Prakash A**, Linton Y, Walton C. Spatial genetic structure of *Aedes aegypti* mosquitoes in mainland Southeast Asia. *Evolutionary Applications* (2010) 3 (2) doi: 10.1111/j.1752-4571.2009.00113.x
38. Morgan K, O’Loughlin SM, Mun-Yik F, Linton YM, Somboon P, Min S, Htun PT, Nambanya S, Weerasinghe I, Sochantha T, **Prakash A**, Walton C. Molecular phylogenetics and biogeography of the Neocellia series of *Anopheles* mosquitoes in the Oriental region. *Mol Phylogenet Evol*, 2009 ; 52 (1) : 588 – 601
39. **Prakash A**, Bhattacharyya DR, Mohapatra PK, Gogoi P, Sarma DK, Bhattacharjee K, Mahanta J. Evaluation of PermaNet® 2.0 mosquito bednets against mosquitoes including *Anopheles minimus* s.l. in India. *Southeast Asian J Trop Med Public Health*, 2009 ; 40 (3) : 449 - 457
40. Bhattacharyya DR, **Prakash A**, Mohapatra PK, Sarma DK. *Armigeres (Armigeres) mahantai*, a new mosquito species from India. *J Am Mosq Cont Assoc*, 2009 ; 25 (1) : 1-5
41. Bhattacharyya DR, **Prakash A**, Mohapatra PK, Sarma DK, Mahanta J. A note on the occurrence of the *Aedes (Stegomia) krombeini* (Diptera:Culicidae) in Assam, India. *Entomon*, 2008 ; 33 (4) : 275-276
42. **Prakash A**, Bhattacharyya DR, Mohapatra PK, Goswami, BK, Mahanta J. Bed net use practices, acceptability and prospect of up scaling of insecticide treated nets in north-east India. *Indian J Med Res* , 2008 ; 128 (11) : 623-629
43. Mohapatra PK, **Prakash A**, Bhattacharyya DR, Goswami BK, Ahmed A, Sarmah B, Mahanta J. Detection and molecular confirmation of a focus of *Plasmodium malariae* in Arunachal Pradesh, India. *Indian J Med Res* 2008 ; 128 (7) : 52-58

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45. **Prakash A**, Walton C, Bhattacharyya DR, Mohapatra PK, Mahanta J. Characterization of ITS2 rDNA of *Anopheles philippinensis* and *Anopheles nivipes* (Diptera: Culicidae) from north-east India. *Southeast Asian J Trop Med Public Health*, 2006 ; 37 (6) : 1134 - 1138
46. **Prakash A**, Walton C, Bhattacharyya DR, O’Loughlin S, Mohapatra PK, Mahanta J. Molecular characterization and species identification of the *Anopheles dirus* and the *An. minimus* complexes in North-east India using r-DNA ITS-2. *Acta Trop* 2006 ; 100 : 156 – 161.
47. **Anil Prakash**, Bhattacharyya DR, Mohapatra PK and Mahanta J. Malaria transmission risk by the mosquito *Anopheles baimaii* (formerly known as *An. dirus* species D) at different hours of the night in North-east India. *Med Vet Entomol*, 2005 ; 19(4) : 423-427.
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49. Bhattacharyya DR, **Anil Prakash**, Mohapatra PK and Mahanta J. Occurance of *Ochlerotatus (Mucidus) laniger* (Wiedemann) (Diptera : Culicidae) in Assam, India. *Entomon*, 2005 ; 30 (1) : 105-107.
50. Mohapatra PK, **Anil Prakash**, Taison K, Negmu K, Gohain AC, Namchoom NS, Wange D, Bhattacharyya DR, Goswami BK, Borgohain BK, and Mahanta J. Evaluation of chloroquine (CQ) and sulfadoxine/pyrimethamine (SP) therapy in uncomplicated falciparum malaria in Indo-Myanmar bordering areas. *Tropical Medicine and International Health*, 2005 ; 10 (5): 478 – 483.
51. **Anil Prakash**, Bhattacharyya DR, Mohapatra PK and Mahanta J. Taxonomical observations on *Anopheles philippinensis/nivipes* group mosquitoes in north-east India. *J Commun Dis*, 2004; 36 (4): 264-270.
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53. Bhattacharyya DR, Tewari, SC, **Anil Prakash**, Mohapatra PK and Mahanta J. *Verrallina (Neomacleaya) assamensis* (Diptera : Culicidae), a new species from Assam, India. *J Am Mosq Control Assoc*, 2004 ; 20 (2) : 115-120.

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55. Mohapatra PK, Namchoom NS, **Anil Prakash**, Bhattacharyya DR, Goswami BK and Mahanta J. Therapeutic efficacy of anti-malarials in *Plasmodium falciparum* malaria in an Indo-Myanmar border area of Arunachal Pradesh. *Indian J Med Res*, 2003 ; 118 (8) :71 - 76.
56. **Anil Prakash**, Bhattacharyya DR, Mohapatra PK, Barua U, Phukan A and Mahanta J. Malaria control in a forest camp in an oil exploration area of upper Assam. *Natl Med J India*, 2003 ; 16 (3) : 135 – 138.
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60. Bhattacharyya DR, **Anil Prakash**, Mohapatra PK and Mahanta J. A note on the occurrence of *Aedes (Paraedes) ostentatio* (Leicester) in Dibrugarh district, Assam, India (Diptera : Culicidae). *Oriental Insects*, 2002 : 36 : 47-49.
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