

Other Activities

8.1 Information, Education and Communication (IEC)

Production of video documentaries

Two video documentary films were produced. The field shooting, script writing, editing, voice-over, animation and special effects were incorporated into the films.

DDT spraying for malaria control

This documentary is related to step-by-step procedure and methodology for DDT spraying such as information to villagers, making suspension, determining discharge rate, width of swath, indoor spraying, precautions for spraymen for cleaning of equipments, etc. Duration of the film is about 15 min. This film would be useful for both supervisors and spraymen.

Chikungunya prevention and control

This documentary on Chikungunya deals with clinical symptoms of the disease, breeding sites of the vector *Aedes aegypti*, community mobilisation and involvement to control vector breeding, role of *Panchayats* for creating awareness and helping communities, mobile health facilities and the state government's efforts at all levels to confront this emergency in several states.

National Science Day celebration

The National Science Day was celebrated in Central Secondary School in Naraina, New Delhi. Health education and awareness was created through popular lectures by NIMR Scientists and Hindi Officer followed by discussion on various aspects of vector-borne diseases, their prevention and control. Other activities included live demonstrations of different stages of mosquito life-cycle and larvivorous fish, exhibitions in English and



Hindi, video-film shows and demonstration of *P. falciparum*, *P. vivax* parasites in microscope. Pamphlets, charts and books published by NIMR were given for school's library as reference material.



Exhibition

An exhibition consisting of 10 panels (size of each panel 3 x 4 ft) depicting research activities of NIMR was conceived, designed and developed.

Distribution of video CDs

Video CDs of NIMR-produced films were distributed to trainees of different training programmes of NIMR, NVBDCP and NICD. All help and cooperation was extended to a team of video production highlighting the activities of NIMR in Delhi for TV channels programme “JIGYASA.”

8.2 Publications

Journal of Vector Borne Diseases

The Institute has been publishing an English quarterly the *Journal of Vector Borne Diseases*. The journal publishes original research articles, research communications, review articles on various aspects of different vector borne diseases. The journal is abstracted by major abstracting agencies and is being uploaded in the web for easy access to the scientists working in the field of vector borne diseases. PDF version of all articles published in the journal can be downloaded free of cost from www.mrcindia.org/journal.

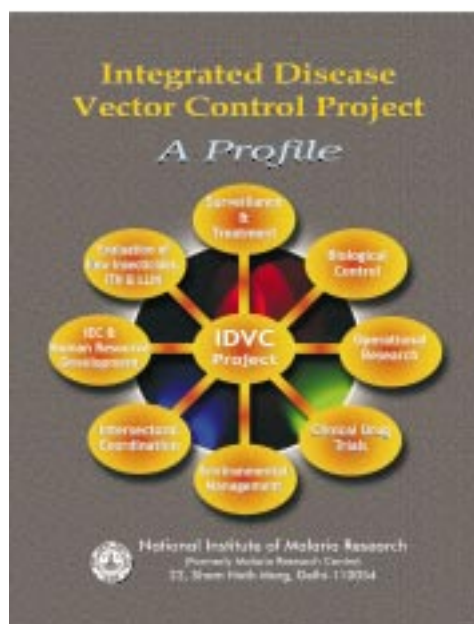
Malaria Patrika

Malaria Patrika, a quarterly periodical in Hindi language is published by the Institute to create awareness on malaria in the community. Various activities relating to the Institute, news and latest developments in the field of malaria research are being covered in this periodical apart from scientific

articles. The *Patrika* is being applauded by the community.

Integrated Disease Vector Control Project: A Profile

A document on the research activities carried out under Integrated Disease Vector Control Project, highlighting the major research inputs into the programme, new technologies developed and transferred to the national programme, research support provided to the national programme since its inception in 1985. The document highlights the achievements and research activities carried out by different field units established in different eco-epidemiological settings in the country and research papers published since inception of this project.



NIMR Newsletter

NIMR has been publishing a biannual and bilingual newsletter of the institute since 2006. Activities of the institute are included in this newsletter and send to its various users— scientists, institutes and scholars working in the field in the country for reference purpose. In each issue, an article on recent malaria research by the eminent scientists is being published as guest column, malaria-related news, new research projects initiated by NIMR, publications of NIMR and other important activities are also published. It shall be renamed to “*Plasmodium*” w.e.f., July 2007.

Website www.mrcindia.org

The Institute's website contains information on research activities being carried out by NIMR, publications of the Institute, research activities of the field units of NIMR, audio-visual unit activities and profiles of scientists, etc. The documents and books published by the Institute are available in this website. A separate webpage is being maintained for Institute's english periodical, the *Journal of Vector Borne Diseases*. The website contains information on guidelines for contributors, subscribers and contact information of editorial office, etc.

**8.3 Conferences/Workshops/Symposia/
Important meetings attended/
Lectures delivered**

Prof. A.P. Dash

1. Investigators meeting of the "Multi-country clinical trial of a new synthetic antimalarial drug RBx11160" organised jointly by Swiss Tropical Institute and Medicines for Malaria Venture (MMV) at Basel, Switzerland from 26–28 April 2006.
2. "Shin Poong Pharm – MMV investigator meeting – Phase III trials of pyronaridine artesunate in Asia" at Ho Chi Minh City, Vietnam from 1–3 September 2006 .
3. Visited CDC Atlanta for discussions on collaborative activities from 18–23 September 2006.
4. National symposium on "Tribal health" at Jabalpur and chaired the session on "Malaria" from 19–20 October 2006.
5. "Insecticide resistance workshop" at Durban from 22–24 November 2006.
6. "AOAC International task force on pesticide detection in soft drinks (PSD)" at Delhi on 29 November 2006.
7. "CDC, USA Round table discussions on polio and health policy" at Delhi from 19–20 December 2006.
8. "Director's meeting on disease vectors" at Jodhpur from 20–24 December 2006.

9. "Malaria and filaria: major problem in Madhya Pradesh" at Khajuraho from 26–27 December 2006.
10. "National workshop on integrated mosquito management and future directives" 7–8 January 2007 at Hyderabad.
11. "INSERM meeting" at ICMR HQS, New Delhi on 9 January 2007.
12. "ESRI/CGIS workshop" at Delhi from 18–19 January 2007.
13. Joint monitoring mission on malaria at Bhubaneswar from 3–5 February 2007.
14. Meeting on NE Task force at ICMR (HQs), New Delhi on 17 February 2007.
15. WHO Inter country meeting at Chiangmai, Thailand on 12 March 2007.
16. Workshop on AES/JE organised by NVBDCP at India Habitat Centre, New Delhi on 20 March 2007.
17. National dissemination workshop at Delhi on 23 March 2007.

Dr. P.R. Bhattacharya

1. "XVII National conference of parasitology" at Kolkata from 22–24 November 2006 and presented a paper on "Sequence variation and immunogenicity of T-helper cell epitopes (Th-2R and Th-3R) of circumsporozoite protein of *Plasmodium falciparum* isolates from India".

Dr. Sukla Biswas

1. XLIV annual meeting of the Infectious Diseases Society of America (IDSA), at Toronto, Ontario from 12–15 October 2006 and delivered an oral presentation in the session of 'Immunology of infectious diseases' on "Immune responses to defined *Plasmodium falciparum* antigens and disease susceptibility among inhabitants from seasonal malarious areas of northern India".
2. "Finalization of standard operation procedure"

and on “Modality of quality assurance (QA) scheme for laboratory diagnosis in malaria” at NVBDCP, Delhi on 11 September 2006 and on 17 January 2007.

3. Two meetings on “Characterization of the *P. falciparum* strains prevalent in northeastern states” at Sonapur, Assam from 3–5 May 2006 and 23–25 February 2007.

Dr. Aparup Das

1. “National conference on biodiversity conservation for a sustainable society” at Nayagarh Autonomous College, Nayagarh, Orissa from 26–27 August 2006.
2. Workshop on “Modelling infectious diseases” held at the Institute of Mathematical Sciences, Chennai from 4–5 September 2006.
3. “II medical development congress on genomics and proteomics in health and disease” held at ICMR, New Delhi from 8–9 September 2006.
4. “Eastern Regional workshop on Bioethics” held at ICMR-NIH-RG Kar Medical College, Kolkata from 11–13 October 2006.
5. “Functional genomics and evolutionary biology” workshop held at the Institute of Life Sciences, Bhubaneswar from 2–25 November 2006.
6. “National session on general issues on R&D in pharmaceutical industry” at the National meeting on research and development in pharmaceutical industry: development of new drugs for emerging chronic diseases, Department of Sciences and Technology (Govt. of India)–ISHA, Bangalore from 27–29 December 2006.

Dr. R.C. Dhiman

1. International workshop on “Monsoon climate variability and change and their impacts on water, food and health in western India” held at Nirma University, Ahmedabad from 6–7 February 2006 and delivered a talk on “Impact

of climate variability on vector borne diseases with emphasis on malaria in India”.

2. “Workshop on women and health care: initiatives in vector control through community mobilization” on “Application of satellite remote sensing in planning malaria control”, held at IIT, Delhi from 10–11 April 2006.
3. Brain storming workshop on “Aerosols and its impact on climate with reference to Indo-Gangetic plains” at Indian Institute of Technology, Kanpur from 10–11 November 2006 and delivered a talk on “Climate change and risk of malaria”.
4. “Asia pacific remote sensing symposium” at Goa from 13–17 November 2006 and presented a paper on ‘Potential for early warning of malaria in India using NOAA-AVHRR-based vegetation health indices’.
5. Workshop on “Balancing energy, development and climate priorities in India” held at India Habitat Centre, New Delhi from 30 November–1 December 2006.
6. “International conference on adaptation to climate variability and change: towards a strategic approach”, organised jointly by the European Commission and Ministry of Environment and Forests at Delhi from 7–8 December 2006 .
7. “National review and coordination meeting on malaria control activities for malaria endemic states” at Ranchi from 24–25 January 2007.

Dr. Hema Joshi

1. Workshop on “Drug resistant malaria” at Genome Centre, Cambridge, UK from 18–22 October 2006.

Dr. Neelima Mishra

1. “Quality assurance of RDT and malaria microscopy for laboratory technicians” organised by NIMR in collaboration with NVBDCP at Delhi from 2 January to 15 February 2007.

Dr. P.K. Mittal

1. “International forum for sustainable management of disease vectors” held at, Beijing, P.R. China from 21–23 April 2006 and presented a paper entitled “Insecticide resistance in malaria vectors in India and strategies for management”.

Dr. B.N. Nagpal

1. “Vector control linkages with voluntary agencies” presented in a workshop on “Women & health care: initiatives in vector control through community mobilization” organised by Indian Institute of Technology at New Delhi on 20 April 2006.
2. “Entomological aspects of malaria and dengue fever in reference to breeding sites especially construction sites” presented at “Workshop on sensitisation of contractors of MCD on prevention of control of dengue fever” organised by Municipal Corporation of Delhi, at Town Hall, Delhi on 22 June 2006.
3. “Life cycle of malaria parasite” presented at “Workshop on rapid assessment of malaria in pregnancy in Madhya Pradesh under USAID” organised by NIMR, Jabalpur at Katni, Madhya Pradesh on 25 July 2006.
4. “Life cycle of malaria parasite” presented at “Workshop on malaria in pregnancy” organised by NIMR, Jabalpur at Satna, Madhya Pradesh on 5 September 2006.
5. “National symposium on tribal health” organised by RMRCT, Jabalpur on 19–20 October 2006.
6. II ESRI Asia Pacific User Conference at New Delhi from 18–19 January 2007.
7. In a expert group meeting delivered a lecture on “Vector control in prevention and control of dengue fever in Delhi” organised by Municipal Corporation of Delhi at Delhi Secretariat on 29 March 2007.

Dr. K. Raghavendra

1. Meeting to review document on “Quality

assurance of insecticides” at NVBDCP, Delhi on 2 May 2006.

2. Meeting of review committee on “Global funds to fight AIDS, tuberculosis and malaria (GFATM) to review for preparing projects for funding sixth round funding of WB”, at Nirman Bhawan, New Delhi on 9 May 2006.
3. Technical committee meeting on “Specifications of LLINs-bednets”, at DGHS, Ministry of Health and Family Welfare, Govt. of India, New Delhi on 26 May 2006.
4. “Meeting of the Society for *in vitro* biology” at Minneapolis, USA from 3–7 June 2006 and a poster on “Micropropagation of *Spilanthes acmella* L and evaluation of its larvicidal activity against vectors *Culex quinquefasciatus* and *Anopheles stephensi* Liston” was presented.
5. Expert committee meeting to deliberate on “Adulticides and larvicides and rotation” at NVBDCP, Delhi on 8 June 2006.
6. Meeting on “In-depth review committee of NVBDCP/World Bank designed team”, at NVBDCP, Delhi on 12 June 2006.
7. Expert group meeting for the workshop on “Quality control and quality assurance” at NVBDCP, Delhi on 18 July 2006.
8. Review meeting on “Implementation of NVBDCP in the state of Rajasthan”, and identified priorities conducted by Joint Secretary (Govt. of India), Ministry of Health and Family Welfare, NVBDCP at Jaipur on 12 September 2006.
9. “International conference on Toxicology, toxicogenomics and occupational health (ICTTOH); and XXVI annual meeting of Society of Toxicology (STOX)” at Gwalior from 9–11 October 2006. Abstract on “Malaria vector control in India by chemical pesticides”.
10. “Brain storming session on vector borne diseases in India” at WHO-SEARO, Delhi, on 9 November 2006.
11. “Global Bio Pharma conference – 2006 theme:

synergies in the global biotechnology industry” at Hyderabad from 10–12 November 2006.

12. National workshop on “Integrated mosquito management and future directives” at Osmania University, Hyderabad from 8–9 January 2007 and delivered an invited lecture on “Studies on the reversion of insecticide resistance in *Anopheles culicifacies* in District Surat, Gujarat” and papers on “Genetically modified mosquitoes for vector control – a perspective” and “Isolation of four *Bacillus* strains from soil and their efficacy against *Anopheles culicifacies*”
13. Expert committee meeting on “Adulticide and larvicide in vector control–bacterial pesticide, IGRs, space sprays” at NVBDCP, Delhi on 30 January 2007.

Dr. A.M. Reetha

1. “Indo-US workshop on clinical trials and clinical research” at ITC Grand Central Sheraton and Towers, Mumbai, India from 4–6 April 2006.
2. “Ethical review for protection of human participants involved in research” at ICMR, New Delhi on 29 April 2006.
3. “Indo-US workshop on bioethics in clinical research” at New Delhi from 20–22 June 2006.
4. “Assessment of the state implementation capacities for Global fund supported IMCP” at NVBDCP, Delhi on 17 April 2006.
5. Meeting to review the current data on therapeutic efficacy of antimalaria drug and provide recommendations on malaria treatment policy state by state at NVBDCP, Delhi on 5 July 2006.
6. “Assessment of malaria treatment practices in public and private health sectors” at NICD, Delhi on 18 January 2007.

Mrs. Rekha Saxena

1. “National symposium on tribal health” organised by RMRCT, Jabalpur from 19–20 October 2006.

2. II ESRI Asia Pacific User conference organised by ESRI India at New Delhi on 18–19 January 2007.

Dr. Aruna Srivastava

1. “National symposium on tribal health” organised by RMRCT, Jabalpur on 19–20 October 2006.
2. Senior Executive seminar organised by ESRI India, New Delhi on 17 January 2007.
3. “GIS for cost-effective control of malaria” presented at II ESRI Asia Pacific User conference organised by ESRI India at New Delhi from 18–19 January 2007.

Dr. Neena Valecha

1. “Malaria burden in India” meeting at NASC, New Delhi from 29–30 March 2006.
2. “Assessment of the state implementation capacities for Global fund supported IMCP” at NVBDCP, Delhi on 4 and 17 April 2006.
3. “Interactive artesunate monotherapy” meeting at WHO-SEARO, New Delhi on 5 April 2006.
4. “Malaria in pregnancy in India: research coordination meeting” at NASC, New Delhi from 10–11 April 2006.
5. “Women and health care: initiatives in vector control through community mobilization” at IIT, New Delhi from 20 – 21 April 2006.
6. “Characterization of the *P. falciparum* strains prevalent in northeastern state, Assam” meeting at Guwahati, Assam from 3–5 May 2006.
7. “A Phase III, randomized, non-inferiority trial, to assess the efficacy and safety of Dihydroartemisinin + Piperaquine (DHA+PPQ, Artekin) in comparison with Artesunate + Mefloquine (AS+MQ) in patients affected by acute, uncomplicated *Plasmodium falciparum* malaria at Kasturba Medical Hospital, Mangalore on 8 May 2006.

8. “Assessment of the state implementation capacities for Global fund supported IMCP” at NIMR, Delhi on 23 May 2006.
9. “Evidence-base for antimalarial treatment policy in India” at US Embassy on 24 May 2006.
10. Workshop on “Drug efficacy project and disease burden project” at Simdega, Jharkhand on 7 July 2006.
11. “Task force on vaccines and diagnostics” meeting at Department of Biotechnology, New Delhi on 18 July 2006.
12. “Review meeting for therapeutic efficacy studies in the states” organised by National Vector Borne Disease Control Programme at Simdega, Ranchi (Jharkhand) on 7 and from 28–29 July 2006 .
13. “Shin Poong Pharm – MMV investigator meeting” on “Phase III trials of pyronaridine-artesunate in Asia” at Ho Chi Minh City, Vietnam from 1–3 September 2006 .
14. “National drug policy, treatment of uncomplicated cases and management of severe malaria” at NVBDCP, Delhi on 9 October 2006.
15. “Expert group meeting on drug policy” at NVBDCP, Delhi on 11 October 2006.
16. “Multicentre open-label randomised clinical trial of efficacy and tolerability of the fixed-dose artesunate/amodiaquine (AS/AQ) combination therapy versus amodiaquine (AQ) monotherapy for treatment of uncomplicated falciparum malaria in India” at Ranchi from 12–13 October 2006.
17. “Institutional assessment at NVBDCP” meeting at Nirman Bhavan, New Delhi on 19 October 2006.
18. “Consultative workshop on integrated training programme” at NVBDCP, Delhi from 24–25 November 2006.
19. “Technical Advisory Committee on malaria” at Nirman Bhawan, New Delhi on 4 December 2006.
20. “The global malaria programme (GMP)” technical and research advisory committee (TRAC) meeting at Cairo, Egypt as an expert member from 10–12 December 2006.
21. “World Bank Pre-Appraisal Mission for the proposed India-Vector Borne Diseases Control Programme” at NVBDCP, Delhi from 18 –19 December 2006.
22. “Infectious diseases” meeting with R&D delegation from Ontario, Canada meeting at New Delhi on 16 January 2007.
23. “Quality assurance of malaria diagnostics” at NVBDCP, Delhi on 17 January 2007.
24. “Mini symposium on malaria research in Orissa” at Bhubaneswar on 15 February 2007.
25. “AS/AQ launch and FACT implementation expert group” meeting at La Maison internationale de la Cite Universitaire, Paris, France from 1–2 March 2007.

8.4 Training Courses Organised

1. “Malaria in pregnancy in India: research co-ordination meeting” organised by NIMR at Pusa, New Delhi from 10–11 April 2006.
2. Two training courses for laboratory technicians of MCD organised by NIMR in collaboration with NVBDCP and MCD at NIMR, Delhi from 8–12 May 2006 and 15–19 May 2006.
3. Five trainings on quality assurance of RDT and malaria microscopy for Laboratory Technicians organised by NIMR in collaboration with NVBDCP from 2–6 January 2007, 15–19 January 2007, 22–27 January 2007, 5–10 February 2007 and 12–16 February 2007.
4. Training course for entomologists/biologists jointly organised by NIMR and NVBDCP at NIMR, Delhi from 19 February–16 March 2007.

8.5 Workshop Organised

Workshop on “Development of Scientific Communication Skills”

The process of expressions of ones thoughts to others in a simple but effective way is an art known as the art of communication. The ability to communicate is a vital ladder to career development. The art of communication plays a pivotal role in the field of science also. In scientific communications both verbal and written communication skills are of great importance. Considering this aspect, a workshop was organised by NIMR on the topic “Development of Scientific Communication Skills” during 15–16 February. The resource person for the workshop was Mr. Yateendra Joshi. Thirty scientists from NIMR attended the workshop.

The main aim of this workshop was to refresh the scientists on the effective communication skills, and help them to develop and implement the same in their day-to-day activities. Both the days of the workshop was divided into three sessions. On the first day Mr. Joshi mainly proceeded with “Introduction to measurably effective communication”. The effective communication skill mainly constituted of the handling of numbers, handling pictures, and the handling of verbal presentation. The basics to be considered while communicating depends on the type of the audience, the purpose of presentation and whether the communication is verbal or by slides, pictures or by any other means. The written skill includes writing papers, and articles



and their submission to research journals. The main area of concern while writing a manuscript is handling of references, Mr. Joshi has explained in details on it.

The second day session was carried out with the topics such as communicating through letters, e-mails and fax messages. According to Mr. Joshi the writing should be as simple as possible, using simple words and straight forward language so that even a lay audience can understand. Most important aspect of writing is handling of words; some common errors should be avoided such as, spelling mistakes, grammatical errors, punctuations, idiom usage and style. Some principles which should be well thought-out while writing for Newsletters and annual reports were also discussed.

8.6 Trainings Imparted

Dr. P.R. Bhattacharya

1. Ms. Harmeet Kaur and Staffi Satija, Allahabad Agricultural Institute, Allahabad (Uttar Pradesh) received training on “Studies on sequence variation and immunogenicity of T-helper cell epitopic regions of circumsporozoite protein of *Plasmodium falciparum* isolates from India”.
2. Mr. Gaurav Arora, Department of Biotechnology, Jiwaji University, Gwalior (Madhya Pradesh) received training on “Studies on genome display and genotype of *Plasmodium falciparum* isolates from India”.
3. Ms. Deepali Khandelwal, IET, Biotechnology, M.I.A., University of Rajasthan, Jaipur (Rajasthan) received training on “Studies on genotype of *Plasmodium falciparum* isolate from India by Anchored Primer Amplification of DNA (APAD)”.
4. Mr. Nitesh Jadon, Department of Biotechnology, Jiwaji University, Gwalior (Madhya Pradesh) received training on “Allelic variation of T-helper cell epitopic regions of circumsporozoite protein of *Plasmodium falciparum* isolates from India”.

5. Ms. Rashmi Agarwal, Department of Biotechnology, Institute of Applied Medicine and Research, C.C.S. University, Meerut (Uttar Pradesh) received training on “Studies on sequence variation and cloning and expression of T-helper cell epitopic regions of circumsporozoite protein of *Plasmodium falciparum* isolates from India”.

Dr. Sukla Biswas

1. Guidance provided to Mr. Rakesh Patel, Department of Biomedical Technology, Jiwaji University, Gwalior (Madhya Pradesh) on “Development of immunochromatographic test for determining antimalarial antibody in patients’ blood”.
2. Guidance provided to Ms. Arti Yadav, Department of Biochemistry, Jiwaji University, Gwalior (Madhya Pradesh) on “Differential effect of hyper immune sera and immunoglobulin-G in presence of monocytes on the growth of *Plasmodium falciparum* in vitro”.
3. Guidance provided to Mrs. Nidhi Varshney, Department of Biomedical Sciences, Bundelkhand University (Uttar Pradesh) on “Source of mosquito blood meal and determination of antimalarial antibodies in injected human blood meal”
4. Guidance provided to Ruchi Jain, Department of Microbiology, Chaudhary Charan Singh University, Meerut (Uttar Pradesh) on “Effect of immune sera and immunoglobulin-G and monocytes in *Plasmodium falciparum* growth in vitro”.
5. Guidance provided to Ms. Thangjam Premabati, Department of Biosciences, Jamia Millia Islamia, New Delhi on “Antimalarial antibody profile in a group of individuals belonging to malaria endemic areas”.
6. Guidance provided to Richa Maheshwari, School of Studies in Biotechnology, Jiwaji University, Gwalior, M.P on “Antimalarial IgG responses and genotyping of *Plasmodium vivax* in a group of patients from northern India”

7. Guidance provided to Varsha Gurjar, Department of Biomedical Technology, Jiwaji University, Gwalior, M.P. on “Antimalarial IgG responses and dihydrofolate reductase gene polymorphism in a group of *Plasmodium falciparum* malaria patients”
8. Training provided to Bharat Bhusan and Ambuj Ashok, students of B.E. (Biotechnology), Institute of Engineering & Technology, Dr. B. R. Ambedkar University, Agra on Microscopic diagnosis of malaria parasites and ELISA technique for Detection of antimalarial antibodies in patients’ blood.

Dr. Aparup Das

Supervised M.Sc. and B. Tech. dissertation of:

1. Ms. Abha Srivastava, Jiwaji University, Gwalior
2. Ms. Meenu Sharma, Jiwaji University, Gwalior
3. Ms. Lily Basu, College of Biotechnology, Dehradun
4. Ms. Garima Goyal, Jiwaji University, Gwalior
5. Ms. Deepsikha Lal, Amity University, Noida
6. Ms. Priti Kumari, Banasthali Vidyapeeth, Rajasthan
7. Ms. Surabhi Verma, Banasthali Vidyapeeth, Rajasthan
8. Ms. Ruchi Bajaj, Gurukul Kangri Vishwavidyalaya, Hardwar
9. Ms. Rama Rajendran, Bharathidasan University, Tiruchirappalli
10. Ms. Shashi Rajput, Boston College, Gwalior

Dr. Hema Joshi

Training imparted for project/thesis work of the following M.Sc. students:

1. Mr. Pankaj Sharma, Jiwaji University, Gwalior, (Madhya Pradesh)
2. Ms. Shabana Parveen, Jiwaji University, Gwalior (Madhya Pradesh)

3. Mr. Rajneesh Sharma, Chaudhary Charan Singh University, Meerut (Uttar Pradesh)
4. Ms. Garima Pandey, H.N.B. University, Srinagar (Uttarakhand)
5. Ms. Nidhi Ralli, CET-IILMAHL (U.P. Technical University), Noida (Uttar Pradesh)
6. Mr. Shameemul Haque, Jamia Millia Islamia, New Delhi
7. Ms. Ramie Begum, SRF, NIMR Field Unit, Sonapur (Assam)
8. Mr. Ankit Sharma, M. Tech., Amity Institute of Biotechnology, Amity University, Noida.
9. Anshu Aggarwal, B.Tech., NSIT, University of Delhi, Delhi

Dr. Nutan Nanda

1. Mr. Y.V.S. Rao, Scientist B and Mr. N.G. Das, Technical Officer from Defence Research Laboratory, Tezpur, Assam were provided training in processing of mosquito for cytotoxic studies, identification of polytene chromosomes and mosquito blood meal analysis in July 2006.
2. Dr. Sunita Singh, DST-Women Scientists, DRDO, Gwalior was trained in cytotoxic techniques for the identification of sibling species of malaria vectors in September 2006.

Dr. K. Raghavendra

1. Imparted one week training and demonstration of "Molecular method for identification of *An. dirus*" to Mr. N.G. Das, T.O. and Mr. Y.V.S. Rao, Scientists from Defence Research Laboratory (DRDO), Tezpur, Assam in July 2007.
2. Ms. Mehar Darukhshan Kalim, Deptt. of Biochemistry, Jiwaji University, Gwalior

Mr. O.P. Singh

1. Miss Garima Sharan, Department of Biochemistry, Jiwaji University, Gwalior

Dr. Vineeta Singh and Dr. C.R. Pillai

1. Imparted training to 22 trainees from various Institutes and Universities on different techniques at the Parasite Bank for one week to four months.

Dr. Aruna Srivastava, Dr. B.N. Nagpal and Mrs. Rekha Saxena

1. Training on 'Geographical Information System for mapping malaria receptivity' to Mr. Mayuri Panditrao, Mr. P. Jeevan and Mr. T. Akbar from Berkeley University, California under United Nation Industrial Development Organization (UNIDO) fellowship from 22 May to 9 June 2006.
2. Training on 'GIS based mapping of malaria receptivity, distribution of malaria vectors and dengue vector surveillance' to Mr. Sein Thaug, WHO fellow from Department of Medical Research (Lower Myanmar) from 5 to 23 March 2007.

8.7 Ph.D. Programme

The following students are working for their Ph.D. degrees under the supervision of NIMR scientists.

Name of the Supervisor	Name of the Student
Prof. A.P. Dash	Mr. S. Mishra Mr. N. Marai Ms. Priyanka Kar Mr. U. Sreehari
Dr. T. Adak	Mr. Anil Sharma Ms. A. Mehrunnisa Ms. Prerana Bali Mr. Hardev Parashar Mr. Mohammed Sohail
Dr. P.R. Bhattacharya	Mr. Jay Prakash Narayan Singh Ms. Sanghamitra Verma
Dr. V.K. Dua	Mr. N.C. Gupta Mr. A.C. Pandey Mr. Firoz Alam Mr. Swapnil Roy
Dr. R.C. Dhiman	Mrs. Sharmila Pahwa

(contd...)

Name of the Supervisor	Name of the Student
Dr. Ashwani Kumar	Mrs. Deeparani Prabhu Mrs. Nandini Korgaonkar Mr. M.B. Kaliwal
Dr. Arun Sharma	Mr. Suprio Ray Miss Neha Chauhan
Dr. P.K. Mittal	Mr. Suresh Yadav
Dr. Hema Joshi	Mr. S.K. Prajapati Ms. Gertrude Kiwanuka Mr. P.K. Mallick
Dr. Sarala K. Subbarao (Former Director)	Mr. O.P. Singh Mr. Dinesh Chandra
Dr. Aparup Das	Ms. Hemlata Srivastava

8.8 NIMR Building Complex at Dwarka, New Delhi

Construction of the Research Block

The construction of Research Block of NIMR started in February 2006 by M/s Rajasthan State Road Development and Construction Corporation Limited under the supervision of M/s Gherzi Eastern Ltd., the consultant for this project. The civil work for the superstructure (basement + ground, I, II & III floors) has been completed. Utility works like electrical installations, plumbing, fire fighting, HVAC etc. are progressing at a fast pace. The external development works like construction of the boundary wall, approach road to the research block, laying of sewer lines etc. are being carried out simultaneously. The process for procuring furniture and fixtures for the Research Block has been initiated. It is likely that this building would be ready to move in during the IVth quarter of 2007.



Creation of Liquid Nitrogen facility at this new campus

Construction of the room for Liquid Nitrogen Plant was initiated in August 2006 after obtaining necessary approvals from the Council. This work



was also awarded to M/s Rajasthan State Road Development and Construction Corporation Ltd. Construction of the room was completed in November 2006 and the equipment was installed and tested by M/s Stirling Cryogenics India Pvt. Ltd. in November–December 2006. The Liquid Nitrogen facility was inaugurated by Prof. N.K. Ganguly, DG, ICMR on 10 January 2007. On this occasion Prof. Ganguly addressed the staff of NIMR and congratulated the Director for his sincere efforts for creating such facility for the scientists of NIMR and other institutes.

8.9 राष्ट्रीय मलेरिया अनुसंधान संस्थान में राजभाषा विकास संबंधी गतिविधियाँ

संस्थान में राजभाषा अधिनियम के अनुपालन की दिशा में वर्ष दर वर्ष प्रगति दृष्टिगोचर हुई है। इसी क्रम में वर्ष 2006-07 में एक ओर जहाँ राजभाषा अधिनियम के अनुपालन के उद्देश्य से संस्थान में राजभाषा अधिनियम-पत्राचार, प्रशासन संबंधी कार्य, आदि में राजभाषा की स्थिति की समीक्षा हेतु तिमाही बैठकें आयोजित की गईं, प्रोत्साहन योजना लागू की गईं। वहीं दूसरी ओर विज्ञान दिवस मनाए जाने के साथ ही हिन्दी पखवाड़े के अवसर पर विभिन्न गतिविधियाँ आयोजित की गईं जो कि वर्ष की मुख्य गतिविधियाँ रही। उल्लेखनीय है कि इस वर्ष संस्थान में हिन्दी पखवाड़ा दिनांक 14 से 29 सितम्बर 2006 तक पूरे हर्षोल्लास के साथ मनाया गया। हिन्दी पखवाड़ा के अवसर पर हिन्दी कार्यशाला, टिप्पण-प्रारूपण प्रतियोगिता, निबन्ध प्रतियोगिता, कर्मचारियों और अधिकारियों के



लिए पृथक-पृथक वाद-विवाद प्रतियोगिताओं का आयोजन किया गया। संबंधित प्रतियोगिताओं का आयोजन संस्थान की हिन्दी अधिकारी एवं राजभाषा कार्यान्वयन समिति के विभिन्न सदस्यों द्वारा किया गया।

हिन्दी पखवाड़े की प्रथम गतिविधि टिप्पण-प्रारूपण प्रतियोगिता का संचालन संस्थान के सहायक अनुसंधान अधिकारी श्री आर. एन. यादव द्वारा किया गया। पखवाड़े की दूसरी गतिविधि हिन्दी कार्यशाला का आयोजन दिनांक 18.9.2006 को पूर्वाह्न 10 बजे किया गया। यह कार्यशाला संस्थान के प्रशासन वर्ग के कर्मचारियों के लिए आयोजित की गई थी जिसमें संस्थान के निदेशक महोदय ने भी भाग लिया था। संस्थान के वरिष्ठ प्रशासनिक अधिकारी के संचालन में इस पूर्णकालिक कार्यशाला में विभिन्न विषयों पर व्याख्यान हेतु विभिन्न मंत्रालयों के उच्चाधिकारियों को आमंत्रित किया गया था। इसी क्रम में दिनांक 20.9.2006 को पखवाड़े की तीसरी गतिविधि निबन्ध प्रतियोगिता का आयोजन एवं संचालन



डॉ. चन्द्र प्रकाश बत्रा, सहायक निदेशक द्वारा किया गया। प्रतियोगिता का विषय था— “बालश्रम: एक विडम्बना एवं उपाय” अथवा “आतंकवाद: एक स्थायी हल”। दिनांक 22.9.2006 को अपराह्न 2 बजे कर्मचारी वर्ग के लिए संस्थान के सहायक निदेशक डॉ. नूतन नंदा के संचालन में आयोजित वाद-विवाद प्रतियोगिता का विषय था—“दीर्घ आयु: वरदान या अभिशाप”। इस पखवाड़े के दौरान उल्लेखित गतिविधियों के अलावा दिनांक 29 सितम्बर 2006 को डॉ. भूपेन्द्र नागपाल, उपनिदेशक ने एक और गतिविधि अर्थात् वाद-विवाद प्रतियोगिता (अधिकारी वर्ग) का आयोजन किया जिसमें संस्थान के प्रशासनिक एवं विज्ञानीय अधिकारियों ने भाग लिया। प्रतियोगिता का विषय था—“कोल्ड ड्रिंक: कितना सही कितना गतल”।

वाद-विवाद प्रतियोगिता की समाप्ति के पश्चात् अपराह्न 4 बजे से पुरूस्कार वितरण समारोह का आयोजन किया गया जिसमें मुख्य अतिथि के रूप में श्री एम.एल. गुप्ता (संयुक्त सचिव), गृह मंत्रालय को आमंत्रित किया गया था। अतिथिगणों के स्वागत समारोह के पश्चात् माननीय श्री एम.एल. गुप्ता को संस्थान के निदेशक महोदय द्वारा शॉल भेंट कर सम्मानित किया गया। तत्पश्चात् श्री एम.एल. गुप्ता ने उपस्थित वैज्ञानिकों एवं समस्त अधिकारियों व कर्मचारियों को अपना सरकारी कामकाज राजभाषा हिन्दी में करने का अनुरोध करने के साथ ही मातृभाषा एवं राजभाषा के संबंध में विस्तृत जानकारी दी। साथ ही संस्थान के निदेशक ने सभी को संबोधित करते हुए कहा कि संस्थान में आयोजित गतिविधियों, प्रतियोगिताओं आदि को आयोजित करने का मूल उद्देश्य राजभाषा हिन्दी में कार्य को बढ़ावा देना है। उन्होंने मुख्य अतिथि महोदय को संस्थान से प्रकाशित होने वाले प्रकाशनों की जानकारी प्रदान की और अंत में कहा कि यदि आप में राजभाषा में कार्य करने का उत्साह है तो सफलता है, नहीं है तो सिर्फ बहाने हैं।

मुख्य अतिथि महोदय एवं निदेशक महोदय के संबोधन के पश्चात् पूरे सप्ताह के दौरान आयोजित विभिन्न प्रतियोगिताओं के पुरूस्कारों की घोषणा की गई। इसमें सर्वप्रथम संस्थान में हिन्दी में अधिकाधिक कार्य करने हेतु लागू वर्ष 2005-06 की प्रोत्साहन योजना के पुरूस्कार निदेशक महोदय प्रो. ए.पी. दाश के कर-कमलों द्वारा श्री रामदेव, अनुभाग अधिकारी, श्री के.सी. सेहरा, श्री मोहन सिंह विष्ट, श्री राघवेन्द्र शर्मा, श्रीमती मोनिका मल्होत्रा, श्री गोरी दत्त, श्री रमेश चन्द्र बुधोड़ी और श्री मोहन लाल को प्रदान किए गए। इसके अलावा हिन्दी में अधिकाधिक डिक्टेशन देने वाले अधिकारी का पुरूस्कार श्री जय प्रकाश वर्मा, वरिष्ठ प्रशासनिक अधिकारी को प्रदान किया गया। इसके बाद निबन्ध प्रतियोगिता का प्रथम



पुरस्कार श्री रमेश झंडवाणी, द्वितीय पुरस्कार श्री यू. श्रीहरि, तृतीय पुरस्कार श्री दानसिंह सोंटियाल और प्रोत्साहन पुरस्कार श्री जी.एल. पुरी व श्री एम.डी. तिवारी को निर्णायक के रूप में पधारे डॉ. विचार दास जी के कर-कमलों द्वारा वितरित किए गए।



इसके साथ ही टिप्पण-प्रारूपण प्रतियोगिता के पुरस्कारों की घोषणा निदेशक प्रो. ए.पी. दाश द्वारा की गई जिसमें प्रथम पुरस्कार श्री के.सी. सेहरा, द्वितीय पुरस्कार श्री जी.एल. पुरी एवं तृतीय पुरस्कार श्रीमती वीना और प्रोत्साहन पुरस्कार श्री सुनील कुमार गुप्ता व श्री जय कुमार वी को डॉ. आर.सी. धीमान, वरिष्ठ उपनिदेशक के कर-कमलों द्वारा प्रदान किए गए।

तत्पश्चात् दिनांक 22 सितम्बर 2006 को आयोजित वाद-विवाद प्रतियोगिता (कर्मचारी वर्ग) का प्रथम पुरस्कार डॉ. पदमावती त्यागी, द्वितीय पुरस्कार श्रीमती वीना, तृतीय पुरस्कार श्री सत्यपाल सिंह और प्रोत्साहन पुरस्कार श्री के.सी. सेहरा और पंकज सिंह को श्री जय प्रकाश वर्मा, वरिष्ठ प्रशासनिक अधिकारी द्वारा वितरित किए गए। इसके साथ ही सप्ताह के दौरान आयोजित अंतिम प्रतियोगिता अर्थात् वाद-विवाद प्रतियोगिता (अधिकारी वर्ग) का प्रथम पुरस्कार डॉ. के. राघवेन्द्र, द्वितीय पुरस्कार श्रीमती रेखा सक्सेना, तृतीय पुरस्कार डॉ. आर.सी. धीमान और प्रोत्साहन पुरस्कार श्री जय प्रकाश वर्मा और श्री प्रवीण कुमार अतुल को निदेशक महोदय के कर-कमलों द्वारा वितरित किए गए। अंततः कार्यक्रम का विधिवत् समापन करने हेतु संस्थान के वरिष्ठ प्रशासनिक अधिकारी श्री जय प्रकाश वर्मा ने सभी संचालकों को धन्यवाद ज्ञापित किया। यहाँ यह बताना भी प्रासंगिक होगा कि संस्थान में ही नहीं अपितु निदेशक महोदय द्वारा विभिन्न क्षेत्रीय इकाइयों में हिन्दी दिवस मनाए जाने संबंधी निर्देश का पालन करते हुए जबलपुर, गोआ, बेंगलोर और सोनापुर में भी हिन्दी दिवस पर विभिन्न प्रतियोगिताएं आयोजित की गईं। राष्ट्रीय मलेरिया अनुसंधान संस्थान, क्षेत्रीय इकाई जबलपुर में भी हिन्दी दिवस पूरे उत्साह के साथ मनाया गया। इस उपलक्ष्य में निबंध प्रतियोगिता एवं वाद-विवाद प्रतियोगिता का आयोजन किया गया तथा क्षेत्रीय इकाई गोवा में भी दिनांक 14 सितम्बर 2006 को हिन्दी दिवस पूरे उल्लास के साथ मनाया गया तथा निबंध एवं भाषण प्रतियोगिता का आयोजन किया गया। ठीक इसी प्रकार क्षेत्रीय इकाई सोनापुर, असम में दिनांक 6 नवम्बर 2006 को हिन्दी दिवस बड़े उत्साह के साथ मनाया गया। इस उपलक्ष्य में एक हिन्दी कार्यशाला एवं विभिन्न प्रतियोगिताओं का आयोजन किया गया जिसके अंतर्गत निबंध प्रतियोगिता और कर्मचारी एवं अधिकारी वर्ग के लिए पृथक-पृथक भाषण प्रतियोगिताओं का आयोजन किया गया। संस्थान की क्षेत्रीय इकाई, बेंगलोर में भी दिनांक 21 सितम्बर 2006 को हिन्दी दिवस के उपलक्ष्य में विभिन्न प्रतियोगिताओं का आयोजन किया गया।

