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4.1 Publications

Publications in journals during calendar year 2004


Publications in journals during calendar year 2005 (Upto March 2005)


Publications in Press:


Publications in edited books/Monograph:


4. Balgir RS. Prevention of common hereditary disorders in India: Sickle cell diseases, Beta-Thalassemia and G6 PD deficiency. RMRC (ICMR), Bhubaneswar pp. 1-12 ( Monograph)

4.2 Human Resource Development

Ph.D. awarded

1. Dr. Abhaya Narayan Nayak was awarded Ph.D. in Anthropology by the Sambalpur University under the guidance of Dr. B.V. Babu. The title of his thesis is “Lymphatic filariasis in rural coastal Orissa: an analysis of bio-cultural dimension of the disease and its treatment”. 
### Ph.Ds. enrolled

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<tr>
<th>Sl. No.</th>
<th>Name</th>
<th>University</th>
<th>Title of the Ph.D Topic</th>
<th>Guide/Co-guide</th>
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<tr>
<td>1</td>
<td>Mr. Alok Das Mohapatra</td>
<td>Utkal</td>
<td>A study of apoptosis in filariasis</td>
<td>Dr. B. Ravindran</td>
</tr>
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<td>2</td>
<td>Mr. Sudhansu Sekhar Nisank</td>
<td>Utkal</td>
<td>Molecular characterization of thalasemia and its clinical significance in Orissa</td>
<td>Dr. G. P. Chhotray</td>
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<tr>
<td>3</td>
<td>Mr. H.K. Khuntia</td>
<td>Utkal</td>
<td>Molecular epidemiological analysis of <em>Vibrio cholerae</em> associated with epidemic and endemic cholera in coastal and tribal districts of Orissa</td>
<td>Dr. G. P. Chhotray</td>
</tr>
<tr>
<td>4</td>
<td>Mr. N.S. Marai</td>
<td>Utkal</td>
<td>Current trends in malaria transmission in Orissa, India</td>
<td>Dr. A. P. Dash</td>
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<tr>
<td>5</td>
<td>Mr. N.N. Mandal</td>
<td>Utkal</td>
<td>Studies on the immuno-protective potential of detergent soluble and lipid antigen of filarial parasite in lymphatic filariasis</td>
<td>Dr. M. K. Das</td>
</tr>
<tr>
<td>6</td>
<td>Mr. Aditya K Panda</td>
<td>Utkal</td>
<td>Genetic Polymorphism in Malaria and Filaria.</td>
<td>Dr. B. Ravindran</td>
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<tr>
<td>7</td>
<td>Dr. S. S. Padhi</td>
<td>Utkal</td>
<td>Immuno Epidemiological correlation between Malaria &amp; Filariasis</td>
<td>Dr. B. Ravindran</td>
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<tr>
<td>8</td>
<td>Mr. Santosh K Panda</td>
<td>Utkal</td>
<td>Innate and adoptive immunity in experimental and Human Filariasis</td>
<td>Dr. B. Ravindran</td>
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<tr>
<td>9</td>
<td>Mr. B. R. Sahu</td>
<td>Utkal</td>
<td>Role of antibodies in protective immunity in human and experimental filariasis</td>
<td>Dr. B. Ravindran</td>
</tr>
<tr>
<td>10</td>
<td>Mr. Mahendra Panda</td>
<td>Utkal</td>
<td>Problem of Endemic Malaria among tribal and Non-tribal population in KBK region of Orissa</td>
<td>Dr. A. Mohapatra</td>
</tr>
<tr>
<td>11</td>
<td>Ms. Anamika Das</td>
<td>Kalyani</td>
<td>Clinical malaria; association of CD36 gene polymorphism and <em>P. falciparum</em> genotypes</td>
<td>Dr. M. R. Ranjit</td>
</tr>
</tbody>
</table>
M. Sc. Dissertation Work:

The following students from various universities/institutes have done their M.Sc. dissertation works in RMRC laboratories under the guidance of scientists.

<table>
<thead>
<tr>
<th>Student</th>
<th>Institution</th>
<th>Dissertation Topic</th>
<th>Guide</th>
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<tbody>
<tr>
<td>Ms. Arpita Ghosh</td>
<td>Utkal University</td>
<td>IgG antibody response to excretory secretory antigens of female adult <em>Setaria digitata</em> in filariae endemic individuals: An immunological marker for exposure to filariasis</td>
<td>Dr. M.K.Das</td>
</tr>
<tr>
<td>Mr. Ravi Kumar</td>
<td>Utkal University</td>
<td>Characterization of excretory secretory antigens of microfilariae and their use as immunodiagnostic agents in detection of individuals infected with <em>Wuchereria bancrofti</em></td>
<td>Dr. M.K.Das</td>
</tr>
<tr>
<td>Ms. Pujashree Das</td>
<td>Merit Institute of Technology, Ooty</td>
<td>Sight into Bancroftian filariasis</td>
<td>Dr. M.K.Das</td>
</tr>
<tr>
<td>Ms. Rasmita Mahapatra</td>
<td>Ravenshaw College, Cuttack</td>
<td>Assessment vectorial capacity of Anopheine vectors using PCR after a control measure</td>
<td>Dr.N.Mahapatra</td>
</tr>
<tr>
<td>Ms. Shakti Prava Mishra</td>
<td>Berhampur University</td>
<td>Hemoglobinopathies and G-6-PD deficiency in malaria patients of Southern Orissa</td>
<td>Dr.R.S.Balgir</td>
</tr>
<tr>
<td>Mr. Jayant Mahapatra</td>
<td>Berhampur University</td>
<td>Beta-Thalassemia and G-6-PD deficiency in Blood Donors at Blood Bank, M.K.C.G. Medical College &amp; Hospital</td>
<td>Dr.R.S.Balgir</td>
</tr>
<tr>
<td>Ms. Amrita Kumari Panda</td>
<td>Utkal University</td>
<td>Hemoglobinopathies in pregnant women in a hospital southern Orissa.</td>
<td>Dr.R.S.Balgir</td>
</tr>
<tr>
<td>Ms. Mamata Ray</td>
<td>Utkal University</td>
<td>Sickle cell hemoglobinopathy in pregnant women in an urban hospital</td>
<td>Dr.R.S.Balgir</td>
</tr>
<tr>
<td>Rashmita Kumari Padhy</td>
<td>Utkal University</td>
<td>Hemoglobinopathies in children in a hospital of southern Orissa.</td>
<td>Dr.R.S.Balgir</td>
</tr>
<tr>
<td>Mr Santosh Kumar Sethi</td>
<td>Utkal University</td>
<td>Sickle cell hemoglobinopathy in a rural PHC of Ganjam district, Orissa.</td>
<td>Dr.R.S.Balgir</td>
</tr>
</tbody>
</table>
4.3 Symposia/workshops/training organized by RMRC

1. Two Laboratory Technicians from Bharat Vikash Parisad and TASWELS have undergone training on “Detection of beta-thalassemia and laboratory diagnosis of sickle cell disorders” in Human Genetics division during April and August 2004.
2. Celebrated Observation of World Health Day at Jaydev Bhawan, Bhubaneswar, Orissa jointly organized by SIHFW, RMRC, ROHFW during 7th-9th April 2004.
3. Workshop cum training on Verbal Autopsy was organized by Regional Medical Research Centre, Bhubaneswar for SRS supervisors on verbal autopsy methodology at RMRC, Bhubaneswar during 1st – 3rd June 2004.
4. State level symposium on “Emerging & Re-emerging Infectious Diseases” was organised on 7th June 2004 in RMRC, Bhubaneswar. The symposium was inaugurated by Honorable Minister of Health & Family Welfare, Govt. of Orissa, Sri Bijayshree Routray.
5. Training on Verbal Autopsy: Regional Medical research Centre, Bhubaneswar organized refresher training for SRS supervisors on verbal autopsy methodology at RMRC, Bhubaneswar during 7th – 9th June 2004 and on 15th June 2005.
6. The Centre organized a training on “Assignment of cause of death and ICD-10
code” for the physicians of SPM Dept, SCB Medical college Cuttack during 24th-25th
June 2005.

7. “Symposium on Prevention & Control of Malaria & Challenges for Population
Stabilization”, was jointly organized by Confederation of Indian Industry (CII) &
Infomation International (INFOIN), Bhubaneswar in collaboration with RMRC, EMCP,

8. A workshop–cum-training program (JCCC@ICMR) for eastern and southern region
ICMR institutions librarian was organized by RMRC Bhubaneswar on 4th August 2004.

9. Regional Medical Research Centre, Bhubaneswar organized an International
workshop sponsored by ICMR - Ellison Medical foundation on “Methodologies in
Medical Research” during 16th–20th August 2004 at Bhubaneswar.

7. Extramural training programmes of mid-level managers under Immunization
Strengthening Project (RCH) was organised in collaboration with NICED, Kolkata at
Prasar Bharati Bhawan, Bhubaneswar, during 22nd- 27th November 2004.

8. Training for Professional Development Course (PDC) in Public Health Management
and Health Sector Reforms for district level medical officers for the state of Orissa,
Chhatisgarh and Jharkhand was organized by State Institute of Health & Family
Welfare in collaboration with RMRC, and series of lecturers were organized at RMRC
on 18th January 2005.

9. Epidemic preparedness Training (Malaria) for ADMO/DMO was organized by EMCP, Orissa
in collaboration with RMRC at RMRC, Bhubaneswar during 17th-19th February, 2005

10. Workshop on clinical management of severe and complicated P. falciparum malaria was

4.4 Scientific lectures and events organised

1. Dr. Sabina Mand of Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany
delivered a lecture on “Use of Ultrasound in Filariasis” on 14th June 2004.

2. Dr. Syamal Roy, Indian Institute of Chemical Biology, Kolkata delivered a lecture on
“Antigen presentation in Leishmania donovani infection” on 21st June 2004.

3. National Technology Day: The National Technology day was observed by the Centre
on 19th May 2005. Dr. N. Sarangi, Director, Central Institute of Fresh Water and
Aquaculture (ICAR), Bhubaneswar delivered a talk on “Technology on Aquaculture-
Present, Past and Future”.

4. National Science Day: National Science Day was observed on 28th February
2005 at RMRC Bhubaneswar. Prof. Trilochan Pradhan, eminent physicist and
former Director of Institute of Physics and former Vice-chancellor, Utkal University
delivered a lecture “Celebration of Physics.”

5. RMRC Foundation Day: 24th RMRC Foundation Day was celebrated on 29th March
2005. Dr. Manorama Mohapatra, Editor of Oriya Daily “The samaja” inaugurated the
ceremony and Dr. Debakanta Mishra, eminent physicist delivered a speech on Einstein’s
Theory of Relativity since the year 2005 is being observed as International year of
Physics. The evening session was dedicated for the children of the staff of RMRC. The
dance, song and drawing competitions were held among the children and colourful
Cultural program was organized in the campus.

6. Vigilance Awareness week: RMRC, Bhubaneswar observed vigilance awareness
week during 1-6 November 2004 in its premises. A seminar participated by all officers
and staff was held on 1st November 2004 at 11.00 A.M. and harmful effects of corruption
was highlighted in the seminar. All the officials in the seminar also took the pledge as
directed by Central Vigilance Commission.

4.5 Foreign visits

1. Dr. S.K.Kar Co-investigator of Indo-German collaboration study entitled “Post DEC
reaction in human bancroptian filariasis” visited Bonn, Germany from 14th - 20th
Dec 2004.

2. Dr. M.R. Ranjit has undergone an advanced research training on molecular genomics
of malaria parasite from 18th October 2004 to 14th January 2005 as short term DBT
overseas associate in Drexel University College of Medicine, Philadelphia, USA.
4.6 Awards

1. Dr. G.P. Chhotray, has been awarded “Sir Shriram Memorial Award for 2003-2004” by National Academy of Medical Sciences (India), New Delhi.

2. Dr. B. Ravindran has been awarded “Dr. Pran Nath Chhuttani Oration Award” National Academy of Medical Sciences (India), New Delhi.

3. Mr. R.N. Nayak under WHO In-Country Fellowship Program participated in “Field Epidemiology Training Programme for Paramedics (FETP)” organized by National Institute of Communicable Diseases, New Delhi.

4.7 Meetings/seminars /symposia/workshops attended by RMRC scientists

1. Dr. B. Ravindran attended the annual RAP-SAC as a member of Research Are Panel (NII, New Delhi; 8-10th April 2004).

2. Dr. S. K. Kar attended one day dissemination workshop on training progress towards sustaining elimination of iodine deficiency disorder in Orissa held at State Institute of Health and Family Welfare, Bhubaneswar on 15th April 2004.


4. Dr. S. K. Kar attended Task Force Meeting on Malaria at New Delhi ; 18th May 2004 as a member.

5. Dr. B. Ravindran attended the Fellowship Committee of ECD Division, ICMR as a member (ICMR, New Delhi; 25th May 2004).

6. Dr. S. K. Kar attended Malaria meeting as expert member of the Committee (Regional Directorate of Health and Family Welfare, Bhubaneswar; 11th June 2004).

7. Dr. B. Ravindran attended the Project Advisory Committee of ICMR on Malaria, Filariasis and Leishmaniasis (ICMR headquarters, New Delhi; 25th June 2004).

8. Dr. S.K. Kar and Dr. B.V. Babu attended as resource person in Training to Additional district Medical Officers on Filariasis Control Programme (Bhubaneswar; 25-26th and 28-29th June 2004), organised by Regional Directorate of Health & Family Welfare, Govt. of India.

9. Dr. S. K. Kar attended Workshop on Orissa Health Sector Plan (OHSP) for presentation of the draft action plan for Orissa Health Sector based on “Orissa Vision 2010 – A Health Strategy” (Bhubaneswar; 2nd July 2004), organized by Policy & Strategic Planning Unit, Health and Family Welfare, Orissa.

10. Dr. S. K. Kar delivered a keynote address as chief speaker in the state level symposium on “Prevention & Control of Malaria in the Industrial Belt of Orissa – Emerging Needs and Challenges for Population Stabilization” on the eve of World Population Day at Hotel Swasti, Bhubaneswar; 11th July 2004.

11. Dr. S. K. Kar attended the Meeting and delivered a talk on “Emerging diseases and population growth” on the occasion of World Population Day (Bhubaneswar; 11th July 2004), organized by Population Research Centre, Bhubaneswar.

12. Dr. S. K. Kar attended the inaugural function of Regional Museum of National History (Bhubaneswar; 10th August 2004).

13. Dr. S. K. Kar, Dr. A. S. Kerketta, Dr. B. Dwibedi and Dr. A.S. Acharya attended ICMR-Ellison Foundation Workshop on Methodologies in Medical Research & Epidemiology (Hotel Crown, Bhubaneswar; 16-20th August 2004).
19. Dr. S. K. Kar attended 2nd Steering Committee Meeting on MDA (Bhubaneswar; 17th August 2004), organized by DHS, Orissa.
20. Dr. S. K. Kar participated in the Brain Storming Session for Development of Biotechnology Sector in Orissa (State Secretariat, Orissa; 19th August 2004).
21. Dr. S. K. Kar attended expert group meeting (ICMR headquarters, New Delhi; 24th August 2004).
22. Dr. S.K. Kar attended immunization programme (RMRC, Bhubaneswar; 30th August – 4th September), organized by NICED, Kolkata.
23. Dr. S. K. Kar delivered a talk on “Application of Physics in Medical Science” at Institute of Physics, as Guest of Honour on the occasion of Foundation Day of Institute of Physics (Bhubaneswar; 4th September 2004).
24. Dr. S. K. Kar acted as Resource Person and delivered a talk on “Filariasis-Current Perspective” in the Workshop of joint directors & CDMOs on MDA (Hotel Pushpak, Bhubaneswar; 7th September 2004).
25. Dr. S. K. Kar attended a meeting on Board of Studies on Biotechnology (Utkal University, Bhubaneswar; 13th September 2004).
26. Dr. S. K. Kar delivered keynote address on “Thallasemia - Current prospective” on National Thalassaemia Day celebration by Taswels Orissa (OAS officers building, Bhubaneswar; 14th September 2004).
27. Dr. B. Ravindran attended Pre-SAC meeting of Malaria Research Centre, New Delhi as a member (MRC, New Delhi; 9th September 2004).
28. Dr. B. Ravindran attended as member the Project Advisory Committee on Health Sciences of Department of Science and Technology, Govt. of India (RP Centre of Ophthalmic Sciences, New Delhi; 7-8th October 2004).
30. Dr. S. K. Kar participated in 24th Annual APICON, Orissa Branch (MKCG Medical College, Berhampur; 13-14th November 2004).
31. Dr. R.K Hazra participated and presented a scientific paper in Joint Annual conference of Indian Society for Malaria and Other Communicable. Diseases and the Indian Association of Epidemiologist (New Delhi; 19-21st November 2004).
32. Dr. S.P. Pithayat attended the XXVIII National Congress of Indian Association of Medical Microbiologists and presented a paper on “Health status of Primitive tribes of Orissa with special reference to diarrhoeal disorder including cholera” (Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow; 25-28 November 2004).
33. Dr. S. K. Kar delivered a guest lecture on “Future perspective of Physiology” as Chief speaker on 19th Annual Conference of Association of Physiologists of Orissa (Hotel Akbari, Bhubaneswar; 27th November 2004).
34. Dr. G. Bulliyya participated in State level seminar on “GO and NGO Partnership” (Orissa Voluntary Health Association, Bhubaneswar; 6th December 2004).
35. Dr. B. Ravindran attended as member the Project Advisory Committee on Health Sciences of Department of Science and Technology, Govt. of India (Shankara Nethralaya, Chennai; 7-8 the December 2004).
36. Dr. S. K. Kar delivered guest lecture on “Life style disease” at National Seminar on “Contemporary Life Styles and management of Mental Health” (Puri; 10th December 2004), organized by Indian Society of Psychiatrists.
37. Dr. S. K. Kar as Chief speaker delivered a talk on “Health Technology as fulcrum of development for the nation” (RMRC, Bhubaneswar; 11th December 2004), organised by Indian Science Congress Association, Orissa Chapter.
38. Dr. R. S. Balgir participated and presented a paper entitled “Medical Genetics in Orissa: An Urgency in Health and Disease” in the 8th Orissa Bigyan Congress (Bhubaneswar; 11-12th December 2004).
40. Dr. A.K.Satapathy and Dr. M.K. Beuria attended 31st Annual conference of Indian Immunology Society and presented a paper on “Bancroftian filariasis: soluble
circulating factors induce inhibition of T cell proliferation” and “Antigen assay at 10
years after DEC treatment indicates marginal conversion to infection-free state in
Wuchereria bancrofti endemic regions of Orissa, India”, respectively (Anna University,
Chennai; 15-18th December 2004).
41. Dr. B. Ravindran attended the annual meeting of the Indian Immunology Society as
an invited speaker (Anna University, Chennai; 17 –19th December 2004).
42. Dr. S. K. Kar delivered a talk on “Clinical history of filariasis” (University of Bonn,
Germany, 20th December 2004).
43. Dr. A. S. Kerketta, attended Workshop on web based assignment of cause of death
at Delhi from 22nd-24th Dec 2004.
44. Dr. B. Ravindran attended as a member of the Scientific Advisory Committee of the ‘Centre
for Research in Medical Entomology’ (Madurai; 26 –27th December 2004).
45. Dr. A. S. Acharya participated in “International Conference on Future of Statistical
Theory, Practice and Education” and presented paper on “Sequential estimation of
genetic parameters for multiple alleles at locus: an empirical application to sickle cell
disorder” (Hyderabad; 29th December 2004 - 1st January 2005).
46. Dr. S. K. Kar participated in a programme “Science Magazine” and discussed in local
language on “Problems on filariasis and malaria” (broadcasted on 13th January 2005),
organized by Doordarshan, Bhubaneswar.
47. Dr. G. Bulliya presented a paper on ‘Nutritional deficiency disorders in the state of
Orissa’ in Professional Development Course in Public Health and Health Sector
reforms’ for the District level Medical Officers (RMRC seminar-hall, Bhubaneswar;
18th January 2005).
48. Dr R.K Hazra attended a symposium on molecular medicine and participated in
discussion (Cuttack; 23rd January 2005), organized by Department of Biochemistry,
S.C.B. Medical College Cuttack.
49. Dr. B. Ravindran attended the annual meeting of the Molecular Immunology Forum, as
a Co-convener (National Institute of Oceanography, Goa; 2-5 February 2005).
50. Dr. S. K. Kar delivered key note address on “Health Technology & Social development”
at Regional Conference on Popularization of Science & Technology for Social
Development, (Institute of Physics, Bhubaneswar; 3rd February 2005), organized by
Kalinga Foundation Trust.
51. Dr. B. Ravindran attended as an invited speaker a joint meeting of Indian and German
Immunology Societies at New Delhi and presented a paper “Does host immunity
function inside filarial worms?” (New Delhi; 6-7th February 2005).
52. Dr. A. S. Acharya participated in National E- governance meeting (Hotel Swosti Plaza,
Bhubaneswar; 8-9th February 2005).
53. Dr. R. S. Balgir was invited to participate and present a paper entitled “Medical
Biotechnology in Human Health and Disease: A Commitment Towards the Service of
Society” in the workshop on ‘Biotechnology-Potentials in Orissa’ (Bhubaneswar; 11-
13th February 2005).
54. Dr. S. K. Kar participated in Epidemic Preparedness Training (Malaria) of ADMOs /
DMOs and delivered a talk on “Field situation and importance of operational studies”
(RMRC, Bhubaneswar; 17-19th February 2005).
55. Dr. S. K. Kar attended Governing Body meeting of Association of Physicians (Orissa
State Branch) (S.C.B. Medical College, Cuttack; 20th February 2005).
56. Dr. R. S. Balgir participated as Treasurer in the Governing Council Meeting and the
General Body Meeting of the Indian Society of Human Genetics (Hyderabad; 20-21st
February 2005).
57. Dr. R. S. Balgir participated and presented a paper entitled “Molecular spectrum of
hemoglobinopathies in Orissa: A Major Thrust Area of Research” in 9th ADNAT and
30th Annual conference of the Indian Society of Human Genetics (Hyderabad; 20-
23rd February 2005).
58. Dr. S. K. Kar attended National Seminar on Homeopathy and delivered a talk as
Guest Speaker on “Impact of Environmental Pollution and industrial hazards on ARI”
(Rabindra Mandap, Bhubaneswar; 23rd February 2005).
59. Dr. S. K. Kar attended Sixth Sir Dorabji Tata Symposium on Viral Hepatitis (J.N.Tata
Auditorium, Indian Institute of Science Campus, Bangalore; 10-11th March 2005).
60. Dr. B. V. Babu attended a meeting on development of drug delivery strategies for lymphatic filariasis elimination in urban areas in India (Tuberculosis Research Centre, Chennai; 18th March 2005).

61. Dr. M.R Ranjit attended the symposium as a resource person for the workshop on “Clinical management of severe and complicated P. falciparum malaria” and delivered lecture on “Diagnosis of Malaria” (RMRC, Bhubaneswar; 21-23rd March 2005).

62. Dr. R.K. Hazra attended as a resource person in the workshop on clinical management of severe and complicated P. falciparum on malaria (RMRC, Bhubaneswar; 21-23rd March 2005), organised by MRC, New Delhi.

63. Dr. B.V. Babu attended National Seminar on Emerging issues in Gender Studies and presented a paper entitled, “Women’s health in India: an emphasis on health consequences of domestic violence”. (Sambalpur University, Sambalpur; 30-31st March 2005).

4.8 Facility

Library & Information:

Library & Information Centre of Regional Medical Research Centre, Bhubaneswar houses an exclusive collection of books, foreign and Indian journals, databases, reprints, etc. on various subjects of biomedical sciences. For the calendar year 2005, the library subscribed 25 foreign journals and 38 Indian journals and procured 125 books. The library provides services like reference, inter-library loan, on-line literature/database search through Internet and off-line MEDLINE services. The reprint request is also provided to the scientists through ICMR Librarians Group Mail services (icmrlibrarians@yahoo.com) and through JCCC@ICMR.

The Local Area Networking (LAN) has installed and 48 nodes have been allocated for Internet connection through ISDN connection.

The library & Information division is doing publication activities of the center. RMRC News Bulletin entered 5th year of its publication and carries research articles contributed by its own scientists and researchers on various field of their working areas. In addition, the library is publishing a biannual library News Letter. IEC materials are also made on various diseases on local languages for distribution to the public. Besides, the division looks after the publication of Centre’s Annual Report.

Activities of NNMB Unit, Orissa, Bhubaneswar

The NNMB Unit, Orissa under NIN, Hyderabad functioning at RMRC, Bhubaneswar has completed the survey for assessment of Diet and Nutritional status of community and prevalence of Hypertension and Anaemia in rural adult males and NPNL women in eighty (80) villages of sixteen (16) districts of Orissa by May 2005. The data was regularly sent to NIN, Hyderabad for analysis.

The survey included assessment of demography and socio-economic status of families, Nutritional status (clinical, anthropometry and morbidity assessment), Diet & Nutrient intake using individual dietary food intake method, Haemoglobin estimation in adult males and NPNL females i.e. e”20 years of age by cyanomethaemoglobin method, estimation of blood pressure among adult males and NPNL females, measurement of waist circumference and Hip circumference of adult males & NPNL females and administration of KAP schedules of Hypertension and Diabetes mellitus among adult males and NPNL females.

The general objective of this survey is to assess the diet and nutritional status of the rural community and prevalence of obesity and hypertension among adults (e”20 years). The specific objectives are as follows:-

1. To assess the food and nutrient intakes among different age/sex/physiological groups in the rural areas.
2. To assess the nutritional status of individuals in terms of anthropometry and clinical examination.
3. To assess the prevalence of obesity among the adults excluding pregnant women (e”20 years) in terms of BMI, waist circumference and waist-hip ratio.
4. To assess the haemoglobin levels among adult males and non-pregnant and non-lactating (NPNL) women.
5. To assess the prevalence of hypertension among adult men and women of e”20 years of age.
6. To assess the knowledge of adult men and women about hypertension and diabetes mellitus.
The coverage particulars during this survey is as follow:-

No. of Households enumerated: 28519, Anthropometry & clinical examination was done in 5744 individuals i.e. 68% of the target, Haemoglobin estimation coverage among adult males – 393 i.e. 98% of the target and among adult females (NPNL) – 399 i.e. 100% of the target. KAP schedules were administered among 2332 individuals i.e. 97% of the target.

Insectarium

The insectarium facility is maintained at the Centre by Entomology Division by rearing of various stages of vectors used for laboratory studies. Cyclic colonies of three mosquito species i.e. *Aedes aegypti* (black eyed Liverpool strain), *Anopheles stephensi* and *Culex quinquefasciatus* are being maintained.

Cyclic colonies are maintained for conducting different experiments, such as development of different strains and species of filarial worms which will help in the selection of proper animal model and conducting bio-assays of different plant products for observation of its insecticidal properties.

Animal house

Animal facility in the Centre continues to be used under Immunology Division catering to all research projects requiring animal experimentation. Currently Rabbit, *M. couchi*, jirds, CBA/N mice, Guinea pigs are available for experimentation. This animal facility has been registered with CPCEA. All the projects concerning animal use experimentation are discussed in duly constituted Animal Ethical Committee of the Centre and work progress review periodically by committee. The facility is well maintained with animal house attendant and other trained researchers. Animal house is maintained regularly with periodic inspection and health monitoring by veterinarian. The newly constructed Animal House facility is likely to be functional very soon.

4.9 Budget and Extramural Grants:

The total sanctioned Budget in respect of the Centre (Non-Plan & Plan) for the year 2004-05 is Rs.399.92 lakhs. The total expenditure made by the Centre for the year 2004-05 Rs.376.48 lakhs. The head-wise expenditure of budget is shown below graph. During this year, 25 extramural projects were undertaken at RMRC, Bhubaneswar. The budget for these projects is 88.15 lakhs and it has been generated from both Indian and international funding agencies.

4.10 19th Scientific Advisory Committee

Dr. Sandeep Basu Chairman
Director, National Institute of Immunology
Aruna Asaf Ali Marg, New Delhi 110 067

Dr. S. Pattanayak Member
B-91, Swasthya Vihar, Delhi 110 092

Lt. Gen. D. Raghunath Member
Principal Executive, Sir Dorabji Tata Centre for Research in Tropical Diseases, Innovation Centre, IISc Campus, Bangalore 560 012

Dr. Sarita Agarwal Member
Addl. Professor, Deptt. of Genetics, SGPGIMS, Raebarel Road. Lucknow 226 014

Dr. K. Ramachandran Member
Consultant, National Institute of Epidemiology, Chennai

Dr. Ashish Datta Member
Director, National Centre for Plant Genome Research
J.N.U. Campus, PO BoX:10531, New Delhi 110 067

Dr. R. Reuben Member
No.52, Rashmi Apartments, 5th Floor, D Monte Part Road, Bandras, Mumbai 400 050
4.11 Human Ethical Committee:

1. Justice (Mrs.) A.K. Padhi
   Former Judge, Orissa High Court
   10, Bhasakosh Lane, Nimchouri, Cuttack-753 002
   Chairman

2. Dr. B.B. Tripathy
   Retd. Prof. of Medicine
   Saradiya Mission Road, Cuttack-753 001
   Member

3. Dr. (Mrs.) P. Mohanty Hejmadi
   Former V.C., Sambalpur University
   GM-8, VSS Nagar, Bhubaneswar-751 004
   Member

4. Mrs. Kasturika Pattanayak
   Ex-Chair Person, Social Welfare Board
   Govt. of Orissa, 1, Lewis Road, Bhubaneswar
   Member

5. Dr. (Mrs.) Manorama Das
   C/o. Prof. G.C. Das, Santiniketana, Mathasahi, Cuttack
   Member

6. Dr. S.K. Kar
   Director, Regional Medical Research Centre, Bhubaneswar
   Member-Secretary
4.12 Animal Ethical Committee:

1. Dr. S.K. Ray  
   Professor & Head, Dept. of Veterinary Medicine  
   Orissa College of Animal Husbandry & Veterinary Sciences, O.U.A.T., Bhubaneswar – 751 001  
   Chairman

2. Dr. G.B.N. Chainy  
   Professor & Head, Dept. of Zoology  
   Utkal University, Bhubaneswar – 751 004  
   Member

3. Prof. P.C. Supkar  
   Institute of Life Sciences, Bhubaneswar-751 023  
   Member

4. Fr. S.J. Abrahm  
   Director, Xavier Institute of Management  
   Bhubaneswar-751 023  
   Member

5. Mr. N.R. Mansingh  
   Inspector, SPCA, C/o. CDVO office, Puri – 752 002  
   Nominee of the CPCSEA

6. Dr. M.K. Das  
   Deputy Director (Sr. Gr.), RMRC, Bhubaneswar  
   Biological Scientist

7. Dr. B. Ravindran  
   Deputy Director (Sr. Gr.)  
   RMRC, Bhubaneswar  
   I/C Animal facility

8. Dr. (Mrs.) N. Mohapatra  
   Assistant Director, RMRC, Bhubaneswar  
   Biological Scientist

9. Dr. S.K. Kar  
   Director, RMRC, Bhubaneswar  
   Convener

4.13 Technical Equipment Purchase Committee:

1. Dr. A.K. Sahoo  
   Principal Scientist  
   CIFA, Kausalya gang, Bhubaneswar- 751 002  
   Chairman

2. Prof. P.C. Supakar  
   Director-in-Charge  
   Institute of Life Sciences, Bhubaneswar-751 023  
   External Member

3. Dr. A. Padhi, MD  
   Pathologist, Kalinga Hospital, Bhubaneswar  
   External Member

4. Dr. Pankaj Agarwal  
   Lecturer, Institute of Physics, Bhubaneswar  
   External Member

5. Mr. A.K. Mohapatra  
   AO, RMRC, Bhubaneswar  
   Member

6. Mr. R.V. Rao,  
   ACO, RMRC, Bhubaneswar  
   Member

7. Dr. B. Ravindran, DD (SG)  
   RMRC, Bhubaneswar  
   Member (Subject Specialist)

8. Dr. M.K. Das, DD ( SG)  
   RMRC, Bhubaneswar  
   Member- Secretary

4.14 Technical Building Maintenance Committee:

1. Mr. D.N. Tripathy  
   Retd. Chief Engineer, CPWD  
   Chairman

2. Mr. P.K. Pattanik  
   Retd. Sup. Eng. (Elect.), CPWD  
   Member

3. Mr. P. Kapoor  
   Retd. Jr. Director (Agriculture)  
   Member

4. Dr. B.V. Babu  
   Assistant Director, RMRC  
   Member

5. Dr. A.K. Satapathy  
   Senior Research Officer, RMRC  
   Member

6. Mr. R.V. Rao  
   Accounts Officer, RMRC  
   Member

7. Mr. G. Behera  
   Section Officer, RMRC  
   Member
4.15 Staff position

DIRECTOR
DR. S.K. Kar, MD

IMMUNOLOGY DIVISION
Dr. M.K. Das, M.Sc., Ph.D. Deputy Director (Sr. Gr.)
Dr. B. Ravindran, M.Sc., Ph.D. Deputy Director (Sr. Gr.)
Dr. M.K. Beuria, M.Sc., Ph.D. Senior Research Officer
Dr. A.K. Satapathy, M.Sc., Ph.D. Senior Research Officer
Mr. N. Mandal, M.Sc., M.Phil., B.Ed. Research Assistant
Dr. P. K. Sahoo, M.Sc., Ph.D. Research Assistant
Dr. (Mrs.) M.S. Bal, M.Sc., M.Phil., Ph.D. Research Assistant
Mr. H.S. Naik, Dip. MLT Lab. Technician
Mr. K.C. Parichha Insect Collector
Mr. S.C. Das Lab. Attendant

Students:
Mr. B.R. Sahu, M. Sc. M. Phil. SRF
Mr. Alok Das Mohapatra, M. Sc. SRF
Mr. Santosh Kumar Panda, M. Sc. JRF
Mr. Aditya Kumar Panda, M. Sc. JRF

PATHOLOGY AND MICROBIOLOGY DIVISION
Dr. G.P. Chhotray, M.D. Deputy Director (Sr.Gr.)
Dr. M.R. Ranjit, M.Sc., Ph.D. Senior Research Officer
Dr. B.B. Pal, M.Sc., Ph.D. Senior Research Officer
Mr. H.K. Khuntia, M.Sc. Research Assistant
Mr. R.K. Das, M.Sc. Research Assistant
Mr. B.N. Sethi, M.Sc. Lab. Technician
Mr. R.K. Das, M.Sc. Lab. Assistant
Mr. B.K. Kanhar Lab. Assistant
Mr. C.R. Samantray Lab. Assistant
Mr. K.C. Jena Laboratory Attendant
Mr. S. K. Mallick Lab. Assistant

Students:
Mr. Sudhansu Sekhar Nishank, M. Sc. JRF

CLINICAL, EPIDEMIOLOGY AND STATISTICS DIVISION
Dr.S.S. Mohapatra, M.B. B.S. Deputy Director
Dr.B.V. Babu, M.A., Ph.D., PGDAS Assistant Director
Dr. A. Mohapatra, M.Sc., M.Phil., Ph.D. Senior Research Officer
Dr. (Mrs.) A.S. Kerketta, M.B. B.S. Senior Research Officer
Dr. Bhagirathi Dwibedi, M.B.B.S, M.D Research Officer
Mr. P.K. Jangid, M.Sc. Statistical Assistant
Dr. A.S. Acharya, M.Sc., M.Phil., LL.B.,Ph.D Research Assistant
Mr. D.P. Hansdah, M.Sc. Research Assistant
Mr. R.C. Parida, M.Sc. Research Assistant
Mr. S.C. Rout Lab. Technician
Mr. T. Moharana Lab. Assistant
Mr. S.C. Rout Census Taker

MEDICAL ENTOMOLOGY DIVISION
Dr. (Mrs.) N. Mohapatra, M.Sc., Ph.D. Assistant Director
Dr. R.K. Hazra, M.Sc., Ph.D. Senior Research Officer
Dr. S.K. Parida, M.Sc., Ph.D. Technical Officer
Mr. N.S. Marai, M.Sc., LL.B. Research Assistant
Mr. H.K. Tripathy, B.Sc, PGDME Technical Assistant
Mr. G.D. Mansingh Insect Collector
Mr. B. Pradhan Insect Collector
Mr. C.S. Tripathy, B.Com., LL. B. Insect Collector
Mr. S.S. Beuria Insect Collector
Mr. G. Simhachalam Insect Collector
Mr. Banamali Nayak Field Attendant

Mr. K.C. Nayak Field Attendant

Mr. N.N. Pattnaik Laboratory Attendant
Mr. H.K. Jena Field Attendant
Mr. K.C. Nayak Sweeper
### HUMAN GENETICS DIVISION
- **Dr. R.S. Balgir, M.Sc. (Hons.), Ph.D.**
  - Deputy Director (Sr. Grade)
- **Dr. G. Baliliyya, M.Sc., Ph.D.**
  - Senior Research Officer
- **Dr. B.P. Dash, M.Sc., Ph. D.**
  - RA (on deputation w.e.f. 23.02.2005)
- **Mr. B. Murmu, M.Sc., M.Phil.**
  - Research Assistant
- **Mrs. G. Mallick, M.Sc.**
  - Research Assistant

### LIBRARY & INFORMATION
- **Dr. B. Sahoo, M.L.I.Sc., Ph.D.**
  - Asst. Lib. & Inf. Officer
- **Mr. Chakradhar Naik**
  - Sweeper-c-Attendant
- **Mr. R.S. Bahadur**
  - Watchman

### ADMINISTRATION
- **Mr. A.K. Mohapatra, B.A., LL.B.**
  - Section Officer
- **Mr. G. Behera, M.A.**
  - Assistant
- **Mr. R.C. Muduli, B.A.**
  - Personal Assistant
- **Mr. P.C. Nayak, B.A.**
  - Personal Assistant
- **Mr. Abani K. Nayak, B.Com.**
  - U.D.C.
- **Mr. A.P. Parida, B.A.**
  - U.D.C.
- **Mr. B.S. Rao**
  - L.D.C.
- **Mr. S. Nayak**
  - L.D.C.
- **Mr. R. Rath**
  - L.D.C.
- **Mr. S.K. Das, B.Com.**
  - L.D.C.
- **Mr. S.K. Majhi, M.A., LL.B.**
  - L.D.C.
- **Mr. R.C. Dash**
  - Office Attendant
- **Mr. Sankar Prasad Sharma**
  - Watchman
- **Mr. M.B. Thappa**
  - Watchman
- **Mr. R.S. Rai**
  - Watchman
- **Mr. Som P. Sharma**
  - Watchman
- **Mr. T. Bahadur**
  - Watchman

### Directors’ Office
- **Mr. L.S. Rao, B.A.**
  - Private Secretary
- **Mrs. R. Varghese**
  - Steno
- **Mr. K.G. Samal**
  - Attender
- **Mr. R.K. Hembram**
  - Field Attendant

### ACCOUNTS
- **Mr. R.V. Rao, B.Com.**
  - Accounts Officer
- **Mr. B. Sutar, M.Com.**
  - Assistant
- **Mr. S.K. Satapathy**
  - U.D.C.
- **Mr. D. Chinnrao**
  - Sweeper

### WORKSHOP, INSTRUMENT & BUILDING MAINTENANCE
- **Mr. B.K. Biswal**
  - Electrician
- **Mr. S. Sutar**
  - Generator Operator
- **Mr. J. Behera**
  - Pump House Operator-cum-Wireman
- **Mr. B.K. Moharana**
  - Plumber-c-Carpenter
- **Mr. Banamali Sahoo**
  - Gardener
- **Mr. Sankar Bisoi**
  - Cook-cum-Guest House Attd.

### ANIMAL FACILITY
- **Mr. A. Senapati**
  - Animal House Attendant
- **Mr. S.K. Das**
  - Animal House Attendant
- **Mr. Jaladhar Naik**
  - Animal House Attendant
- **Mr. Pandav Sahoo**
  - Animal House Attendant

### TRANSPORT
- **Mr. Md. Daulat Khan**
  - Driver (Special Grade)
- **Mr. Sibaram Patra**
  - Driver (Grade-I)
- **Mr. R. Pradhan**
  - Driver (Grade-I)
- **Mr. Anakar Nayak**
  - Driver (Grade-II)
- **Mr. A.R. Khan**
  - Driver (Grade-II)
- **Mr. P.K. Behera**
  - Driver

### NATIONAL NUTRITION MONITORING BUREAU (NNMB) STAFF
- **Dr. S.K. Das, MBBS**
  - Research Officer (Medical)
- **Mrs. S. Palikray**
  - Asst. Research Officer
- **Mrs. Haraprava Sahu**
  - Social Worker
- **Mr. D.K. Mohanty**
  - Steno-C-Office Asst.
- **Mr. R.K. Sahoo**
  - Driver
- **Mr. J.K. Mohanty**
  - Field Attendant