

Annual Report 2004-2005



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- Conferences / Workshops attended by Scientists and Students*

REFERRAL SERVICES

SCIENTIFIC ADVISORY COMMITTEE

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STAFF LIST

RESEARCH ACTIVITIES

THRUST AREAS OF RESEARCH

TUMOR BIOLOGY

BREAST CANCER

1. Study of Candidate Genes Associated with Breast Cancer Susceptibility
2. Study of Molecular Characteristics of Familial and Early Onset Breast Cancer

MOLECULAR BIOLOGY OF PROSTATIC NEOPLASIA

1. Study on microsatellite instability and defects in mismatch repair system in prostate cancer.

BLADDER CANCER

1. Role of in-vitro Cytotoxicity Assay and Adjuvant Intravesical Therapy in the management of Superficial Bladder Cancer
2. Study of the Host Immune Response in Patients with superficial Transitional Cell Carcinoma
3. To study the expression and Relevance of Tissue Transglutaminase (tTg) in invasive and Non Invasive Human Bladder Transitional Cell Carcinoma (TCC).

CANCER IN NORTH-EAST REGION OF INDIA

1. Comprehensive study of Carcinoma Oesophagus at North-East India - Multidisciplinary Approach
2. Effect of Pesticide Exposure in Causation of Cancer in North-East India
3. Role of Tobacco use in Causation of Cancer in North-East India

HAEMATOPOIETIC-LYMPHOID MALIGNANCIES

1. Flow Cytometric Assays to Evaluate Prognosis and Patients Response to Chemotherapy in patients with Acute Leukemia-Expression of Genes commonly involved in Drug Resistance
2. Expression of Fusion Oncoproteins and Cell Cycle Regulators in Peripheral Blood and Bone Marrow Specimens of patients with Acute and chronic Myeloid Disorders

PATHOLOGY OF INFECTIOUS DISEASES

GENITAL CHLAMYDIAL INFECTION

1. Development of Diagnostic Assay for Chlamydial trachomatis
2. Cytokine Regulation in the Immunopathogenesis of Salpingitis / Infertility due to Chlamydia trachomatis infection in Women
3. Humoral Immune Response to Chlamydial Heat Shock Proteins in the Pathogenesis of Genital Tract Infection in Women
4. Effect of Sex Hormones on induction of Immunity by Dendritic cells in Female Reproductive Tract during Chlamydia trachomatis infection
5. Immune Response to Chlamydia trachomatis infection in Spontaneous Aborters
6. Mouse Model of Chlamydial salpingitis / Infertility
- 7.

LEISHMANIASIS

1. Genomic Microarray Based Identification of Differentially Expressed Parasite Genes in PKDL
2. Discovery of Virulence-Related Genes in Leishmania donovani using Genomic Microarray
3. AP-PCR for identification of Differentially Expressed Genes in PKDL
4. Parasite Detection in Clinical Samples of VL and PKDL
5. Characterization of Circulatory and Localized immune Response in Indian Kala-azar (KA) and Post kala-azar Dermal Leishmaniasis (PKDL) patients
6. Evaluation of Cell Mediated Immunity in Biopsy cases of PKDL

MISCELLANEOUS PROJECTS

1. Monitoring of Organic Chemical Pollutants in Placental Tissue : A new Approach to Human Environmental Bio-monitoring
2. Cell culture contamination with Mycoplasma in Basic and Applied Biomedical research
3. Pathophysiological Role of Estrogen in males
4. Evaluation of Human T-Cell Lymphotropic Virus Type-1 (HTLV-1) in Blood donors and Patients with Leukeia/lymphoma from Delhi
5. Quantitation of Immunohistochemical staining