

CURRICULUM VITAE



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CAREER OBJECTIVE:

To strive for a successful and ambitious career in Biotechnology and to have an opportunity to work abreast with the latest trends in the field.

KEY STRENGTHS:

Excellent interpersonal, analytical, conceptual, team building, communication and presentation skills, clarity of thought, persistent hard work, sincerity and sound technical knowledge.

ACADEMIC QUALIFICATION:

- **M.Sc in Biotechnology** from **P.G.P COLLEGE OF ARTS AND SCIENCE (Affiliated to Periyar University, Salem)** with **First Division** in April 2008.
- **B.Sc in Bio-Technology** from **P.R.G Govt. COLLEGE (Affiliated to Andhra University)** with **First Division** in April 2006.

SUMMARY OF MY POST GRADUATE (M.Sc) WORK

CYTOGENETIC STUDIES ON BLOOD SAMPLES OF BREAST CANCER PATIENTS COMPARE TO CONTROLS

In the present investigation we could observe that the chromosomal aberrations such as gaps, breaks and SAT associations are only found in the patients with advance breast cancer.

Using techniques G-Banding and karyotyping we anlyse the chromosomes and found chromosomal aberrations Mostly q arm of Group A chromosome, especially A1 (1q) were showing breaks and both arms of Group C chromosomes had shown maximum amount of gaps in blood samples of Breast cancer patients.

We found The presence of undefined chromosomes and multipoidy in the blood cells of the patients recently undergone chemotherapy could be possibly due to the genotoxic effects of the chemotherapeutic drugs and cessation of cell cycle leading to incomplete cell division respectively.

The work was carried out at **Indo-American Cancer Research Institute, Hyderabad.**

SKILLS EXPERTISE

- Genetic transformation of tobacco.
- Screening of transgenic plants.
- Basic Molecular biological techniques such as plasmid DNA isolation, DNA isolation From blood, DNA isolation from Bacteria, Agarose gel electrophoresis, PCR, Competent cells preparation, bacterial transformation etc.
- Biochemical techniques such as total protein extraction from bacteria and yeast. SDS-PAGE, Western Blotting, IgG purification from blood samples.

TRAINING PROGRAM

- Trained under Biotech Industrial Training Program [BITP] organized by Biotech Consortium India limited [BCIL]; New Delhi; at Genomix Molecular Diagnostics Pvt.,Ltd. Hyderabad, for 6months.

PROFESSIONAL EXPERIENCE

Research Associate: Genomix Molecular Diagnostics Pvt., Ltd. Hyderabad, for 2years.

Projects handled:

- **Cloning,Expression and Purification of TB antigenic Proteins.**

This project includes designing of gene specific primers using various bio-informatic tools, selection of suitable vector, isolation of TB genomic DNA, amplifying gene of interest using PCR, restriction digestion of vector and inserts, ligation, transformation and over expression of MTB specific antigens and purification of proteins using Ni-NTA column [Affinity-Chromatography].

- **Raising Species specific antibodies against malaria parasite for the development of IVD (invitro diagnostics).**

This project includes injecting species-specific peptides (Plasmodium) into goats to raise polyclonal antibodies against various antigens, followed by separation of serum. The specific antibodies from every booster were confirmed by performing western blots. After the arbitrary confirmation of antibody titer, purification of these polyclonal antibodies was performed. Conventional purification strategies were employed which include ammonium sulphate precipitation followed by dialysis. Dialyzed sample was passed through IgG-Agarose column (Affinity chromatography).

PRESENT POSITION

Presently working as a Guest Lecturer in Biotechnology at P.R.Govt Degree College, Kakinada, from Past 6 Years.