

## CURRICULUM VITAE

### PERSONAL DETAILS:

Name : Mridula Nandan

Date of birth :08-01-1977

Marital status : Married

Current Address : #573, 'Shruthi'  
West of Chord Road, II Stage,  
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### OBJECTIVE:

To be a part of scientific research involving immunological disorders and gene therapy.

### EDUCATIONAL QUALIFICATIONS:

(MPhil):Registered for the M.Phil program in Biotechnology from Bharathidasan University, Chennai, for the academic year 2006-2007.

MSc (2003-2005) : Masters degree in Biotechnology from Institute of Advanced studies in Education, Sardarshahar, Rajasthan. Passed with distinction.

BSc (1994-1997) : Graduated with distinction from Manasa Gangothri, University of Mysore, Mysore, with Botany, Biochemistry and Microbiology as optionals.

PUC (1992-1994) : Secured distinction with 80% marks.

SSLC(1991-1992) : Secured distinction with 83% marks.

#### STRENGTHS:

Good practical approach and good technical skills  
Good verbal and written communication  
Excellent grasping power  
Team worker

#### WORK EXPERIENCE:

Worked as a trainee at the Department of Biotechnology, Manasa Gangothri, Mysore. (Summer project ,April to June 1996).

Worked as Project Assistant at the Indian Institute of Science, Department of Microbiology and Cell Biology, Bangalore, for five years.

Duration:(15 November, 2000 to 31 October, 2005).

#### SHORT TERM PROJECT AT MANASA GANGOTHRI:

“EXTRACTION AND PURIFICATION OF AMYLASES FROM FUNGI”.

#### PROJECT AT THE INDIAN INSTITUTE OF SCIENCE:

“MAKING DRUG SENSITIVE MYCOBACTERIA FOR USE AS VACCINE FOR TUBERCULOSIS”.

#### NATURE OF WORK:

Growing recombinant E. coli, Preparation of Competent cells of E. coli and Mycobacteria  
Electroporation  
Isolation of Plasmid DNA from E.coli  
Endotoxin removal from DNA using Triton X-114 and estimating endotoxin levels in DNA.  
Growing mycobacteria and isolation of genomic DNA from mycobacteria (M.smegmatis and M.bovis)  
Restriction Digestions  
Bacterial cloning experiments and recombinant DNA technology  
Lambda plating for screening M. tuberculosis DNA library-probing with antisera and identifying positive clones.  
Animal tissue culture – maintenance of cell lines (CV-1,HuTK-and PS cells), transfection with DNA and screening for recombinants.  
PCR Amplification technique  
Electroelution of proteins from preparative polyacrylamide gels  
Affinity chromatography for purification of proteins  
Agarose gel electrophoresis, Polyacrylamide gel electrophoresis  
Pouring agar plates, streaking for single colonies  
Reagent preparation for routine laboratory work  
Western Blot for protein analysis  
Southern blotting

#### BRIEF DESCRIPTION OF THE WORK CARRIED OUT AT IISc:

Work at IISc was majorly molecular biology and recombinant DNA technology. This involved DNA extraction from bacteria /mycobacteria, electroporation into bacteria/mycobacteria, endotoxin removal from DNA, DNA modification with restriction enzymes, PCR amplification, a series of cloning experiments in bacteria, subsequently made to work in a eukaryotic system. Confirmatory restriction digestions and protein analysis by Western Blotting were routinely performed to confirm that the cloning has successfully taken place. Protein purification by electroelution and/or affinity chromatography was performed for detailed analysis of proteins and for use as antigens to study immunological responses in mice.

#### ADDITIONAL QUALIFICATIONS:

Successfully completed a two year diploma course in Software Engineering from Aptech Computer Education, Mysore.

Successfully completed a two month course in E-commerce at Radiant Software Ltd., Bangalore.

MODULES COVERED:

(HDSE)

OS - DOS, UNIX.

Packages - FOXPRO, ORACLE 8.0 WITH DEVELOPER 2000.

Languages - C++, BASIC JAVA.

MODULES COVERED:

(E-COMMERCE)

VB 6.0,HTML, DHTML, ASP, VISUAL

INTERDEV, SQL SERVER7.0, BACK OFFICE.

PROJECTS UNDERTAKEN:

MAINTAINING SHARE ACCOUNT OF KMF, MYSORE USING FOXPRO.

PAYROLL AND INCOME TAX CALCULATION USING ORACLE 8.0 AND  
DEVELOPER 2000.

DESIGNING WEB PAGES USING ASP.

REFERENCES:

Dr. S. Vijaya, Department of Microbiology and Cell biology, Indian Institute of Science,  
Bangalore.

Dr. Sumangala Bhat, Bio-Engineering & Research Centre, Gottigere, Bangalore.

Dr. Jacob N. Abraham, Department of Botany, St. Joseph's College, Bangalore.

DECLARATION:

I hereby declare that the above information provided by me is true to the best of my  
knowledge.

Sd-

Mridula Nandan  
10 August, 2007.

