


CURRICULUM VITAE

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Work Experience

| I | Position | Responsibilities |
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| 1. | Since 2013 working as Molecular Biologist at Kovai Medical Center and Hospital, Coimbatore, Tamil Nadu Pin Code : 641 014 | a) Introduction of new diagnostic tests after validation b) Conducting the Internal and External Quality Assurance Program in the laboratory c) Maintenance of the National Accreditation Board for Testing and Calibration Laboratories (NABL) status, Department of Science and Technology, Govt. of India d) Overseeing the purchase request and consumption of consumables required for the diagnostic tests. e) Daily activities of the Molecular Biology Laboratory |
| 2. | Nov 2007- March 2012 Assistant Professor, Molecular Biology Laboratory, Amrita Institute of Medical Sciences and Research, Ponnekara, Kochi 682041 | Same as above |

Technical Expertise

a) Transplantation Immunology

- (i) HLA ABDR Sequence specific primer based tissue typing for the donors and recipients of organ/bone marrow transplantation
- (ii) Serological Crossmatch

b) Gene Testing

- (i) HLA B27 gene testing
- (ii) Identification of Factor V Leiden Mutation detection
- (iii) Identification of Factor II (Prothrombin) Mutation detection
- (iv) JAK2 Mutation Detection
- (v) BCR/Abl Translocation PCR

c) Detection of the Micro-organisms causing infectious diseases

- (i) Mycobacterium tuberculosis
- (ii) Cytomegalo Virus
- (iii) Hepatitis B Virus
- (iv) Hepatitis C Virus
- (v) Varicella Zoster
- (vi) Herpes Simplex
- (vii) BK Polyoma Virus
- (viii) Dengue and chikungunya virus

d) Multiplex panels & Syndromic testing

- a) Respiratory Panel
- b) Meningitis Panel (Neuro panels, viral and bacterial meningitis)

Certifications and Accreditations

- (i) Part of the team to organize and obtained the NABL accreditation status for the Molecular Biology Laboratory at Amrita Hospital, March 2010.
- (ii) Obtained authorization from the Department of Public Health, Government of Tamil Nadu to commence H1N1 testing in the Molecular Biology Laboratory, Kovai Medical Center and Hospital, Coimbatore 14
- (iii) Part of the team to organize NABL accreditation for the Molecular Biology Laboratory, Kovai Medical Center and Hospital, Coimbatore-14 to initiate Covid testing.

| II | Position | Responsibilities |
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| | May 2000 to June 2002 Fellowship at the Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala (2000-2003) sponsored by the Department of Biotechnology (DBT), India. | Single Nucleotide Polymorphism analysis of a drug metabolizing enzyme in the DNA sample of patients suffering from schizophrenia. Projects Sanctioned: Screening of drug metabolizing status in South Indian population based on CYP2D6 (debrisoquine-4-hydroxylase) gene polymorphism. Sanctioned in 2002 by State Committee of Science, Technology and Environment Scientific Research Fund, Kerala |
| | Sep 1993 to June 1994 * Tutor in Medical Biochemistry at the Department of Biochemistry, P.S.G College of Medical Sciences, Coimbatore, Tamil Nadu. | Conducting and theory and practical classes for I year M.B.B.S students |

Academic Qualifications:

- a) 1994 - 2000. Indian Institute of Science, Bangalore, India. Ph.D , Human Genetics.
Title of the Ph.D Dissertation, “A mouse model for dynamic mutation and fragile X syndrome”
- b) 1990 - 1993. Jawaharlal Institute of Post-Graduate Medical Education and Research (JIPMER), Pondicherry, India. M.Sc., Medical Biochemistry:
- c) 1987 – 1990. Bharathiar University, Coimbatore, Tamil Nadu, India B.Sc., Biochemistry.

Honors/Scholarships:

Award in Inter Collegiate Science Exhibition- 1990.
Rameshwardasji Birla Smarak Kosh Scholarship 1991-1993.

Research Experience:

- * Junior Research Fellowship 1994 -1996.
- * Senior Research Fellowship 1996-2000.
- * Scientist (Department of Biotechnology, India) Fellowship 2000 – 2003

Technical Expertise:

Biochemical : Qualitative analysis and quantitative estimations of carbohydrates
Qualitative analysis of aminoacids
Quantitative estimations of lipids
Paper and Thin layer chromatography
Practical clinical chemistry techniques such as protein & enzyme estimations.

Molecular Biology: DNA isolation from bacterial cells, cultured cells and animal tissues
Cloning in plasmids, expression in bacterial cells and analysis
Southern Hybridization
PCR and sequencing
SNP analysis Transgenic animal handling & analysis

Bioinformatics : Homology search, accessing and analyzing the data base

* Was part of the **Technology Development Programme** initiated by the Department of Biotechnology (DBT), India concerned with developing a molecular diagnostic method for detecting fragile X syndrome in India (Thesis). Performed extensive work in several eminent institutes like Centre for Cellular and Molecular Biology (CCMB), Hyderabad, National Institute of Immunology (NII), New Delhi and Institute of Functional Genomics and Biology, Delhi.

List of Publications:

- i) Triplet repeat polymorphism & fragile X syndrome in the Indian context. Baskaran S *et al.* Indian J Med Res 107, 29-36 (1998).
- ii) A handbook of prenatal diagnosis of reproductive genetics. Sujatha Baskaran & Vani Brahmachari. Jaypee Brothers Medical Publishers Ltd. Edited by Kamini. A. Rao 1998.
- iii) Chromosomal fragility and human genetic disorders. Sujatha Baskaran & Vani Brahmachari. Indian Journal of Clinical Biochemistry, 15 (Suppl), 145-157 (2000).
- iv) Spontaneous expression of fragile site at Xq27.3 in a fragile X patient. Sujatha Baskaran *et al* Indian Journal of Human Genetics 5 (1): 37-40 (1999).
- v) Instability in the (CGG) repeat in transgenic mice. Baskaran S *et al.* Genomics, Vol.80., No. 2., 2002
- vi) Association of Dopamine Receptor Polymorphisms with Schizophrenia and Anti psychotic Response in a South Indian Population. Neetha Vijayan, **Sujatha Bhaskar**, Linda V. Koshy, Chandrasekhar Natarajan, Lekshmy, Chandrashekharan Nair, Priya M. Allencherry and Moinak Banerjee. Behavioral and Brain Functions 2007; 3: 34
- vii) Comparative analysis of DNA methylation in transgenic mice with unstable CGG repeats from the FMR1 gene
Mohammad Parwez Alam, Sonal Datta, Subeer Majumdar, Abhishek K Mehta, Sujatha Baskaran, Neerja Gulati, Vani Brahmachari. Epigenetics 5:3, 241-248, 2010
- viii) Molecular defect of “Prothrombin Amrita” Substitution of arginine by glutamine (Arg553 to Gln) near the Na⁺ binding loop of prothrombin
Sajini Sivasundar, Akash Thomas Oomen, Ohm Prakash, Sujatha Baskaran, Raja Biswas, Shantikumar Nair, Gopi Mohan, Lalitha Biswas. Blood Cells, Molecules and Diseases Vol.50, Issue 3. March 2013, 182-183

Presentations at Symposia/Conference:

- a) Molecular analysis of fragile X syndrome. Sujatha Baskaran *et al.* 65th annual meeting of Society of Biological Chemists conference, 1996.
- b) Molecular analysis of fragile X syndrome. Sujatha Baskaran & co-workers. Annual meeting of Indian society of Cell Biologists held at Indian Institute of Science in 1997.
- c) Repeat Expansion: when & where? Towards an answer for fragile X syndrome with a mouse model. Sujatha Baskaran *et al.* 67th annual meeting of Society of Biological Chemists, 1998.
- d) Dynamic mutation of CGG repeats stimulated in transgenic mice. Sujatha Baskaran *et al.* 25th All India Cell Biology Conference, 2001.
- e) Poster presentation at Human Genome Organisation 2007, HGM 2007: A putative cis-acting element promoting CGG repeat instability in a transgenic mouse model **Vani Brahmachari**, Sonal Datta, Parwez Alam, Subeer Majumdar, Sujatha Baskaran, ¹Abhishek Mehta

Personal Information

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| Date of Birth: | 13 th November 1969 |
| Gender : | Female |
| Nationality: | Indian |
| Marital Status: | Married |