


BIOGRAPHY

Name: Mrs. Jayachelvi Babu	
Date of Birth: 05.02.1970	
Sex: Female	
Nationality: Indian	
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I, Mrs. Jayachelvi Babu obtained my postgraduate degree (MSc) in Industrial Hygiene & Safety from SRIHER (DU) Chennai and currently pursuing my doctoral program at SRIHER (DU) which is expected to be completed in 2022. With over 13 years of experience in Industrial Hygiene and Safety services, I have conducted various hazard exposure and risk assessment in diverse industrial sectors including engineering, automobile, food, construction and others. After a basic education and training in Clinical Microbiology, underwent advanced training in microbial techniques and immunology at SRIHER (DU). With more than 12 years of microbiology experience applied in field of industrial hygiene and developed standardization protocol for sampling and analytical procedures for biological hazards to determine the bacterial and fungal biomarkers in indoor and ambient environments also validated human bio monitoring techniques for trace metals exposure and assessment in occupational and environmental settings.

Additionally I have obtained one more post-graduation degree in Sociology at Annamalai University. The field of public health is historically rooted in the social reform movements and also systematic working relationships between social science and public health. Current developments in the health field have the concern of public health workers with social factors in the preventive, therapeutic, and rehabilitative aspects of illness and disease.

I am also responsible for the curriculum development in Industrial Hygiene and Safety, and short-term training programs in occupational safety & health.

CURRICULUM VITAE

EDUCATIONAL QUALIFICATION:

Ph.D.: Assessing Health Risks from Multi-metals Exposures through Human Bio-Monitoring in Chennai, Tamil Nadu. **(Program registered in 2016; expected to complete by 2022)**

Post Graduation: M.A. (Sociology), 2011 - 2013

Institution/University: Annamalai University, Chidambaram, Tamilnadu

Post Graduation: M.Sc. (Industrial Hygiene & Safety), 2004-2007

Institution/University: Sri Ramachandra University, Chennai, Tamilnadu

Post Graduate Diploma in Medical Laboratory Technology, 1991-1992

Institution/University: Stella Maris College, Chennai

Under Graduation: B.Sc. (Zoology), 1988-1991

Institution/University: Stella Maris College (under Madras University), Chennai

CURRENT POSITION:

Senior Lecturer, Department of Environmental Health Engineering, Faculty of Public Health, Sri Ramachandra Institute of Higher Education & Research (DU), Chennai – 600 116

S.No.	Designation	Responsibilities	Period
1.	Senior Lecturer	Teaching & Research	September 2016 to till date
2.	Lecturer	Teaching & Research	February 2014 – September 2016
3.	Tutor	Teaching & Research	2009 – 2014 February
4.	Laboratory Technician	Clinical Microbiology	1995 – 2009 September

Area of Specialization:

Teaching & Curriculum development: Industrial Hygiene & Safety /Sociology & Public Health/Microbiology & Environmental Health Science

Post-Graduation	Mater of Public Health MSc (Industrial Hygiene & Safety Applied Occupational Optometry MRIT	Industrial Hygiene, Industrial Safety, Social Behavioral Health Science, Microbiology, Applied Occupational Optometry & Medical Sociology	2007 to till date
Under-Graduation	BSc – AHS, SLHS, BPT, Optometry, Occupation therapy, Sports Science, BMS & EHS	Environmental Science, Sociology, Medical Sociology, Occupational Optometry, Microbiology & Public Health	2011 to till date
Dissertation - Guidance	MPH/MSc (IH&S)		
Curriculum development	PG –MPH & MSc (Industrial Hygiene Safety) – Full time & ODL UG - Environmental Health Sciences		

Industrial Hygiene Services:

To perform industrial hygiene activities including qualitative and quantitative IH/safety surveys, air sampling/monitoring, noise and Bioaerosol indoor air monitoring

- Assessment of Mineral oil mist and Bioaerosol conducted in Hyundai motors (Pvt) Ltd., Tamilnadu - 2019
- Heat Stress Assessment, Urine (pH, specific gravity, Creatinine & Uric acid) done for Yamaha Motors India Pvt.Ltd., Chennai, Tamilnadu - 2019
- Human Biomonitoring assessment on Urinary Chromium done in Brakes India Pvt. Ltd., Polambakkam - 2019
- Bioaerosol Exposure Assessment done in Mars International Ltd., Hyderabad - 2018
- Indoor environment exposure assessment and monitoring (Particulate, VOC, Acid mists) done in Brakes India, Polambakkam - 2017
- Lead exposure assessment done in Lucas – TVS in Pondicherry and TVS in Padi - 2016
- Bioaerosol exposure assessment conducted in IFF Pvt Ltd. Chennai, Chittoor & Bangalore - 2015
- Bioaerosol exposure assessment conducted in Delphi – TVS, Mannur and Rane Brakes India, Viralimalai - 2006

Research Experience:

Focal Area: Indoor Air pollution & Human Biomonitoring

Research Programs, Department of Environmental Health Engineering, Sri Ramachandra Institute of Higher Education & Research (DU), Chennai.

Some of the Research activities involved by me are given below

- Co-Investigator in the project entitled, “Development of a plan for global monitoring of human exposure to and environmental concentrations of Mercury: A pilot survey in India” – 2016
- Indoor air quality monitoring in rural households of Tamil Nadu (Departmental Projects)

- Health impact assessment on exposure to metal working fluid – Viralimalai - 2006
- Health impact assessment on exposure to metal working fluid – Delphi – TVS - 2005
- Bioaerosol exposure assessment in residential area nearby dumping site in Chennai - 2005

Workshops organised:

- “Advanced concepts of toxicokinetic in application to monitoring & Evaluation of therapeutic drugs” **Resource person** conducted with association of Faculty of Pharmacy, SRIHER (DU) on 29th January 2019.
- “Technical Aspects of Noise & Its Health Effects”, **Resource person**, conducted with association of SEA, India on 22nd September, 2018 at EHE department.
- Organised World water Day celebration on 22nd March, 2017 at SRU, Chennai.
- Organised CME & training workshop in the frame work of the unique/WHO project “Development of a plan for global monitoring of human exposure to and environmental concentrations of Mercury” on 7th September, 2016 at RSRM, Chennai
- Organised CME & training workshop in the frame work of the unique/WHO project “Development of a plan for global monitoring of human exposure to and environmental concentrations of Mercury” on 8th September, 2016 at SRU, Chennai
- Organised “Awraeness program on Brest feeding on 7th August, 2013 at UHP, Pulionthope.
- Organised “Awraeness program on Brest feeding on 2nd August, 2013 at PHC, Thirumazhisai.

Training Programs attended:

- ‘Sophisticated Instrument training in ICP-MS & Microwave digester’ on March 2021 between 1st and 3rd, at Gelens Innovation Labs Pvt Ltd, Chennai.

- National Seminar on “Advanced Concepts of Toxicokinetics in application to Monitoring & Evaluations of Therapeutic Drugs” at SRU, on 29th January, 2019
- National level workshop on “Minamata Convention and Inventorization of Mercury in India” at IIT, Madras, on 4th & 5th December, 2018
- “Mentoring the Mentors” at SRIHER (DU), on 17th August, 2018
- “Research Methodology and Biostatistics as course work for Ph.D Candidates” at SRU, 16th & 17th February, 2017
- “Computer application in Research” at SRU, 18th February, 2017
- “National conference on setting benchmark in teaching & learning through ICT” at SRU, CRF on 5th & 6th February 2016
- “Workshop on Grant and Publication writing” at SRU, CRF on 14th September of 2015
- “Rabies & DPT vaccine production & testing” Guest Lecture at Pasteur Institute of India, Chennai on 12th September 2014
- “Application of Pharmacokinetics and Toxicology in Clinical Management: Current methods and emerging tools” at SRU, Dept. EHE/dept. of Forensic Medicine & Toxicology on 2nd August 2014
- “Understanding Industrial Health” – CME at Parvathy Hospital, Chromepet on 1st May 2014
- “Research Methodology & Research Ethics” – Refresher program at SRU, Department of Community Medicine on 25th April, 2014
- National workshop on “Current concepts and tools in Occupational Health & Safety Risk Assessment, SRU, 2nd & 3rd November, 2012
- “*Teach the Teacher to Teach Program in Chennai*” at the NIE from January 9-13, 2010
- “Promoting Research ethics education in India”, Indo – US CITI Workshop on November 24th to 26th 2009

Guest Lecture:

- “Training for Trainers on safety’ & ‘Chemical Safety’ for SRIHER (DU) employees – Organised by SRIHER (DU) – 2019 to till date

- 'Mercury & Health Effects' – National level workshop on “Minamata Convention and Inventorization of Mercury in India” at IIT, Madras, on 4th & 5th December, 2018
- 'Assessment of Mercury Exposure - Sample Collection And Human Biomonitoring Technique' – Paramedical staffs of RSRM 30th September, 2016 at RSRM, Chennai

Online Training Program:

- **CITI** (Collaborative Institutional Training Initiative) course on Ethics, completed on 11th October, 2017
 - CITI - Good Clinical Practice
 - CITI - Human Research, Biomedical Research, Basic Course for researchers of Social & Behavioral Science background
 - CITI - The Responsible Conduct of Research for Biomedical Investigators

Conference Proceedings:

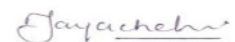
- **Jayachelvi B**, Naveen P, Kalpana B, Krishnamurthy K, Palanivel K “Method Development And Validation Of Multi Metal Assessment For Human Biomonitoring” - 15th International Symposium On "Metal Ions & Organic Pollutants In Biology, Medicine And Environment" October 30 – 31 - 2019, NEERI, Nagpur
- **Jayachelvi B**, Saraswathy M, Naveen P, Sankar S “Sampling and analytical protocol for the determination of fungal biomarkers in Indoor environments” – National Conference on Emerging issues in Occupational Health & Safety, ROHC(S)-NIOH-ICMR, Bengaluru, July 2015.
- **Jayachelvi B**, Sankar S, Kalpana B “Bioaerosol Exposure and Health Impact Assessment of Employees working with Metal working fluid” - 56th All India Annual Conference, IPHA, Kochi, February 2012
- **Jayachelvi B**, Sankar S, Kalpana B “Validation study of particulate matter monitor in solid fuel using households – implication for health studies” – APTCON 2008, Chennai, July 2008.
- Suchithra S, Padma Srikanth, Ayyappan R, **Jayachelvi B**, Anupma J Kindo, Ravi A,

Sandhya S, Kalpana Balakrishnan, Steinberg R. "Characterisation of fungi in indoor air of hospitals in South Chennai" at National Conference of Indian Association of Medical Microbiologists in XXXII National Conference of Indian Association of Medical Microbiologists at AFMC, Pune, October 2008.

- Padma Srikanth, Ralf Steinberg, **Jayachelvi**, Suchithra S, Ayyappan, Kalpana Balakrishnan "Bioaerosols in Indoor Air of Hospitals and Assessment of Nosocomial Pathogens" IX National Conference of Hospital Infection Control Society of India, at Chandigarh 2007
- Padma Srikanth, Ralf Steinberg, **Jayachelvi**, Suchithra S, Ayyappan, Kalpana Balakrishnan "Bioaerosols in Indoor Air of Hospitals", National Conference of Indian Association of Medical Microbiologists (MICROCON 2006), Govt Medical College Nagpur 2006

University Responsibilities

- **NSS Coordinator** – Faculty of Public Health, SRIHER (DU) 2020 to till date
- Member of **Examination subcommittee, Faculty Quality cell and College council 2019 to till date**
- **Executive Committee Member** - Alumni Association of Faculty of Public Health, SRIHER (DU)– from 2018 to till date
- **Secretary** - Safety & Utility Subcommittee, Sri Ramachandra Institute of Higher Education & Research (DU), Porur, Chennai – 600 116 from April 2017 to till date.



(Jayachelvi Babu)