

CURRICULUM VITAE

JUDITH .A

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OBJECTIVE:

Dedicated and passionate researcher with a Master's in **Microbiology** and **ASRB/ICAR Lectureship/Assistant professorship qualification**, seeking an Assistant Professor position to contribute to quality teaching and academic mentorship.

AREA OF INTEREST:

Molecular Biology; Immunology; Nanotechnology based molecular diagnostics; Virology.

ACADEMIC PROFILE:

S.No.	Degree/course	Subject	Institute/University	Year of completion	Percentage/Class
1.	Post Graduation	Microbiology	The American college, Madurai, Tamil Nadu.	2021	88.3%
2.	Under Graduation	Microbiology	Madras Christian College, Tambaram, Chennai, Tamil Nadu.	2019	78.75%

CERTIFICATE COURSE:

S.No.	Course Title	Course Offered by	Course Duration
1)	Introduction to Proteomics	NPTEL Online Certification, Course Offered by IIT Bombay.	August 2019 – October, 2019
2)	Health Research Fundamentals	NPTEL Online Certification, Course Offered by IIT Madras.	January 2020 – March 2020
3)	Current regulatory requirements for conducting clinical trials in India for investigational new drug/ new drug (version 2.0)	NPTEL Online Certification, Course Offered by IIT Madras.	January 2020 – March 2020

RESEARCH EXPERIENCE:

- **Junior Research Fellow**

Department of Clinical research, **Voluntary Health Services Hospital**, Chennai.

Project : “Impact of low CD4 T cells on COVID vaccination in people living with HIV.”

Funded by: Indian Council of Medical Research (ICMR)

Principle Investigator: Dr. Priya Kannian

Period: December 2022 – March 2025 (2 years)

Performed T cell phenotyping in Peripheral Blood Mononuclear Cells (PBMC) and Stimulated Whole Mouth Fluid (SWMF) from patients with HIV and COVID to study senescence markers.

Conducted HIV viral load quantification (**RT PCR**) to correlate with the clinical parameters.

SARS CoV2 antibody quantification (**ECLIA**), Quantification of cytokines (**ELISA and Cytokine Bead Array**)

Investigated longitudinal immune response in participants having different HIV burden and CD4 T cell count.

- **Project Fellow**

L.V.Prasad Eye Institute, Hyderabad

Principle Investigator: **Dr. Chitra Kannabiran**

Period: October 2021 – September 2022 (1 year)

My work involved **screening and analysis of genetic variants in *IFT* genes of Fuchs’ Endothelial Corneal Dystrophy subjects**. During my tenure I gained experience in PCR, Sanger sequencing, data interpretation and documentation.

- **M.Sc. Project:**

Title:

Biosynthesis and characterization of silver nanoparticles using the extracts of *Gracilaria crassa* (Marine seaweed) and determination of its antibacterial and anti-larvicidal activity.

TECHNICAL SKILLS:

- Pure culture isolation of microorganisms.
- Microscopic and Biochemical characterization.
- Antimicrobial susceptibility testing.
- DNA, RNA and Plasmid isolation.
- Cloning.
- qPCR and RT PCR.
- Agarose gel electrophoresis.

- Sanger Sequencing.
- Estimation of protein.
- SDS gel electrophoresis.
- ELISA and Avidity Assay.
- CBA,
- PBMC isolation from whole blood.
- Flow Cytometry (FACS).

EXAMS QUALIFIED:

- ICAR AICE JRF/SRF (Ph.D.) -2022 in the subject Microbiology
- ASRB/ICAR-NET-2023 (Lectureship/Assistant Professorship) in the discipline Agricultural Microbiology.

PUBLICATIONS:

- Sadeghi Nasab S, Eniya ML, **Judith A**, Clasen F, Faith B, Poongulali S, Gita Jayaraman B, Ashok C, Raghavi V, Vedavalli S, Lavanya C, Ranganathan K, Rajan G, Kumarasamy N, Moyes D, Ide M, Shoaie S, Kurushima Y, Jagdev D, Pun M, Challacombe S. Detection and consistency of mucosal fluid T lymphocyte phenotypes and their relationship with blood, age and gender. J Immunol Methods 2024; Vol 532, 113731.
- Eniya M, Johnson N, Challacombe S, Kannian P, **Judith A**, Sadeghi Nasab S, Moyes D, Faith B, Poongulali S, Gita Jayaraman B, Ashok C, Kumarasamy N. Salivary anti-spike antibodies associate with a decline in SARS-CoV2 burden. J Dent Res 2024; Vol 103 (special issue A), 0826.

BOOK CHAPTERS PUBLISHED:

- J. Immanuel Suresh and **Judith A.**, “Comparison between Traditional and Nano remediation Technology with a Special Reference to Soil and Heavy Metal Contamination”, “Nano-phytoremediation and Environmental Pollution: Strategies and Mechanisms” (1st ed.). CRC Press. ISBN: 9781003186298
- J. Immanuel Suresh and **Judith A.**, “Pharmaceutical Applications of Marine-derived Fungi isolated from the Gulf of Mannar”, “Fungi Bio-Prospects in Sustainable Agriculture and Environment and Nano-Technology, Volume 2: Extremophilic Fungi and Myco-mediated Environmental Management.” Elsevier Publications, 2020, ISBN: 978-0-12-821925-6
- Immanuel Suresh J. and **Judith A.**, “Hazardous and safety and management of nanomaterials for personal health and environment”, “Nanotechnology for Environmental Pollution Decontamination: Tools, Methods, and Approaches for Detection and Remediation”, Apple Academic Press (AAP). ISBN: 9781774910405

CONFERENCE PROCEEDINGS (ABSTRACT):

International Conference:

- **Judith A.** and Immanuel Suresh J., “Conversion of solid waste into compost by Microorganisms- A Review”, International Conference on “Eco-Technological Approaches for Sustainable Environment”, organized by the Department of Microbiology, Government Arts College for Women, Salem -08, Tamil Nadu, on 6th March, 2020.

National Conference: (WON BEST PAPER AWARD)

- **Judith A. and J. Immanuel Suresh, “Silver Nanoparticles and their Anticancer Efficacy against HeLA cell lines synthesized from *Ulva lactuca* (Marine Seaweed)”**, National Conference on **“Innovations in Chemical and Life sciences Research”**, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai – 624 612, Dindugal District, Tamil Nadu on 07th February, 2020.

Online Conference:

- **Judith A. and M. Andrew Pradeep, “Pharmacology aspects of available drugs and therapy appropriate for treatment against COVID-19”**, in the online Conference entitled, **“Study on COVID-19”**, organized by the Society for Environmental Resources and Biotechnology Development, India and Electrohomeopathy Research Foundation, India, from 01-15 May 2020. **ISBN No: 9788194767626**
- **Judith A. and Immanuel Suresh J., “The effect of seaweeds as immunostimulant in fishes – A review”**, in the International web conference entitled,—Advances in integrated aquafarming for sustainable rural development (AIASRD-2020) organized by Bihar Agricultural University, Sabour, Bhagalpur, India, from 29-30 September, 2020. **ISBN No. 978-93-5445-672-5.**

INTERNSHIP:

- **“Hands-on Training on Molecular Biology Techniques”** held at Avanz Bio Pvt. Ltd., Chennai from 26th December to 31st December, 2019.

WORKSHOPS PARTICIPATED:

- **State level Hands on Training cum Workshop on “Fundamentals of Bioinformatics”**, organized by the Postgraduate and Research Department of Zoology, The American College, Madurai on 05th March, 2020.
- **“ELISA and Fermentor”**, Organized by Heber Analytical Instrumentation Facility (HAIF), Bishop Heber College, Trichirappalli on 28th February, 2020.
- **“Research Methodology Workshop”**, organized by the Center for Medical Genetics (Unit of Gen Vams Trust), Kilpauk, Chennai on 05th August, 2017.

SEMINARS / CONFERENCES PARTICIPATED:

- National Seminar on **“Avenues of Research in Biology”** organized by the PG Department of Zoology, Fatima College (Autonomous), Madurai on 12th February, 2020.
- National Conference on **“Public Health Microbiology: Issues, Challenges and Prevention”**, Organized by the Department of Microbiology, Madras Christian College (Autonomous), Chennai on 21st and 22nd September, 2016.

Online seminars/conferences participated:

- Webinar on “**Applications of Flow Cytometer in Healthcare Sector**” organized by Department of Biomedical Engineering and Internal Quality Assurance Cell (IQAC), Karpaga Vinayaga College of Engineering and Technology, GST Road, Chinna Kolambakkam, Padalam—603308, Chengalpet (Dt.), Tamilnadu on 18th May 2020.
- International online conference on, —**COVID-19 Biotechnology: A Way Forward**”, organized by the Department of Biosciences, School of Basic Sciences, Faculty of Science and Directorate of Admissions, Manipal University, Jaipur on 30th April 2020.
- Two-Day Webinar on “**An Insight into Commercial Applications of Microorganisms in the Current Era**”, Organized by the Department of Microbiology, Madras Christian College (Autonomous) on 24th and 25th July, 2020.
- National Virtual seminar on, —**Insights of New Human Invader: SARS-CoV-2**”, organized by the Department of Microbiology, School of Life Sciences, VISTAS, Pallavaram, Chennai, on 12th June 2020.
- International conference on COVID-19, —**Recent Updates And Current Advances**” organized by The Department of Microbiology, The American College, Madurai, Tamil Nadu, India on 3rd and 4th June 2020.
- International Webinar on, —**Research Avenues in Biochemistry**” organized by The Department of Biochemistry, The American College, Madurai on 11th and 12th June 2020.
- Webinar on, “**Survival Games Played by Bacteria**”, organized by the School of Chemical and Biotechnology, SASTRA Deemed to be University, on 14th of May 2020.
- An Online Interactive Lecture Series on, —**COVID-19 PAN(ACA)DEMIC – A multi- disciplinary approach to the coronavirus**”, organized by St.Xavier’s College (Autonomous), Mumbai, from April 30th to May 2nd 2020.

PERSONAL DETAILS:

Father’s Name : Albert Dhanabal A.

Date of Birth : 01.12.1998

Gender : Female

Marital Status : Unmarried

Languages Known : Tamil, English and Hindi

Nationality : Indian

REFERENCES:

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