RAKESHWARAN ANBARASU

ASPIRING PHD RESEARCHER IN MOLECULAR CANCER BIOLOGY AND CELL BIOLOGY

Phone
+91 9087117476

Address
No.68 1st Street Sasthri Colony Chrompet
Chennai, Tamil Nadu, India

Email
rakeshwarananbarasu@gmail.com

LinkedIn
www.reallygreatsite.com

Highly motivated and research-oriented biotechnology postgraduate with a strong academic background and practical experience in molecular biology, cancer research, and transcriptomics. Recently completed tenure as a Project Associate at the Indian Institute of Technology Madras, where I worked on RNA sequencing, spatial transcriptomics (NanoString CosMx), and molecular diagnostics. Skilled in advanced laboratory techniques including RT-PCR, qPCR, histopathology, and nanoparticle synthesis. Actively seeking PhD opportunities in Europe to further contribute to molecular cancer biology, molecular cell biology, cancer genomics, molecular therapeutics, and translational biomedical research.

WORK EXPERIENCE

Indian Institute of Technology Madras (Aug 2023 – Aug 2024)

Project Associate

- RNA library preparation for transcriptome sequencing (NovaSeq 6000, Illumina)
- Expertise in RT-PCR, qPCR, Agilent 2100 Bioanalyzer, Tapestation 4150
- Cell culture, Western blotting, SDS-PAGE
- CosMx Spatial Molecular Imaging (NanoString Technologies)
- Histopathology: tissue processing, embedding, H&E staining

Care Health Diagnostic Lab (Oct 2020 – Apr 2022)

Lab Technician

- Hematology, microbiology, endocrine, serology, and clinical pathology
- Patient sample collection, preparation, and diagnostic reporting

ACADEMIC HISTORY

University of Madras (Prince Shri Venkateshwara Arts and Science College) 2020–2022

Master of Science in Biotechnology - 95%

Projects

- Anticancer Potential of Portunus sanguinolentus Extract Against Cervical Cancer Cells: A Biochemical and Molecular Investigation.
  Reference: Dr. S. Kavitha and Dr. K. Deepalakshmi
- Synthesis and Anticancer Evaluation of Selenium Nanoparticles from Crab Shell Extracts Against Cervical Cancer Cells (Approved by Tamil Nadu State Council For Science And Technology DOTE Campus)
  Reference: Dr. K. Deepalakshmi and Dr. S. Kavitha

University of Madras (Prince Shri Venkateshwara Arts and Science College)
2017–2020

Bachelor of Science in Biotechnology - 75%

Dr. UK Institute of Health Laboratory Technology affiliated with Bharat Sevak Samaj
2018–2019

BSS Diploma in Medical Laboratory Technology - 88%

SKILLS

PCR Gel Electrophoresis Western Blotting SDS PAGE Cell Culture Agilent 2100 Bioanalyzer

DNA and RNA Purification Nanostring CosMx RT PCR qPCR Tapestation 4150

DNA and RNA extraction Tissue Processing DNA/RNA Quantification

Embedding & Tissue Staining(H & E) Microsoft Office Data Analysis Tools

PUBLICATIONS

1. Anticancer Potential of Portunus sanguinolentus Extract Against Cervical Cancer Cells: A Biochemical and Molecular Investigation, Journal of Applied Biotechnology Reports (Under Review)

2. Synthesis and Anticancer Evaluation of Selenium Nanoparticles from Crab Shell Extracts Against Cervical Cancer Cells, International Journal of Nanoparticles (Approved by Tamil Nadu State Council For Science And Technology DOTE Campus)(Under Review)

CERTIFICATION

National Program on Technology Enhanced Learning NPTEL (2018–2019)

Cell Culture Technologies

Sri Balaji Vocational Skill Development Academy (2018–2019)

Diploma in E.Publishing

LANGUAGES

Tamil (Native), English (Fluent), German (Basic proficiency)

AWARDS

Paper Presentation – 2nd Prize, National Conference (TNSCST, 2021)

Secured Third Place in General Proficiency during II M.Sc. Biotechnology, awarded Certificate of Merit (2021–2022)

EXTRACURRICULAR INTERESTS

Fitness & Sports: Cricket, Badminton | Dance and Community Participation

CONFERENCES & SEMINARS

International Conference on Cancer Biology 2023, IIT Madras

Molecular Mechanisms, Genomics and Novel Therapeutics

National Council For Science And Technology , TNSCST (2021)

Conservation of Medicinal Plants By Biotechnological Approaches

PAPER PRESENTATION

National Council For Science And Technology 2021: Conservation of Medicinal Plants By Biotechnological Approaches

REFERENCES

Er. V. Prasanna Venkatesh Vice Chairman, Prince Shri Venkateshwara Arts and Science College

- Contact No: +919789854444 Email ID: vc@princescience.in

Mrs. D. Ramya

Assistant Professor and Head Department of Biotechnology,
Prince Shri Venkateshwara Arts and Science College

- Contact No: +919444229705 Email ID: ramyabt@princescience.in

Dr. Kavitha Assistant Professor, Prince Shri Venkateshwara Arts and Science College

- Contact No: +919841864711 Email ID: saranva.k@gmail.com

Dr. Deepalakshmi Head Department of Biotechnology, Prince Shri Venkateshwara Arts and Science College

- Contact No: +919500124283 Email ID:deepalakshmibio@gmail.com

Dr. Mahalingam Professor, Indian Institute of Technology Madras

- Contact No: 04422574130 Email ID: mahalingam@iitm.ac.in