



Basic Details:

- **Name:** Dr. Rekha B
- **Designation:** Assistant Professor
- **Phone Number:** 9940160165
- **Email ID:** rekhab@srmist.edu.in
- **Area or Subject:** B. Tech Biotechnology, M.Tech Biotechnology & PhD in Chemical Engineering
- **Affiliation:** Department of Biotechnology, Ramapuram Campus, SRM Institute of Science and Technology

Educational Details:

- **Degree** – B.Tech, M.Tech, PhD
- **Area or Subject** – B. Tech Biotechnology, M.Tech Biotechnology & PhD in Chemical Engineering
- **University** – Anna University
- **Awarded Year** –
B. Tech Biotechnology, SSIET (Affiliated to Anna University), **2012**.
M.Tech Biotechnology, REC (Affiliated to Anna University), **2014** &
PhD in Chemical engineering, Anna University, (A.c. tech Campus), **2022**.

Other Details:

Courses:

Nanotechnology, Animal Biotechnology, Neuroscience, Fundamentals of Biomedical Engineering, Biopharmaceutical Technology, Plant Biotechnology, Basic Industrial Biotechnology, Molecular biology, Bioenergy, Stem Cell Technology, Sustainable Energy, Immunology, Environmental Biotechnology, Bioseparation.

Research Interests: Bioenergy

List of Publications:

- **Rekha, B**, Saravanathamizhan, R. Catalytic conversion of corncob biomass into bioethanol. Int J Energy Res. 2021; 45: 4508– 4518. (Impact factor: 6).
- **B. Rekha**, R. Saravanathamizhan, Preparation and characterization of biomass-based nanocatalyst for hydrolysis and fermentation of catalytic hydrolysate to bioethanol, Biomass Conversion and Biorefinery, (2021) (impact factor: 4.987).

- Megala, S., **Rekha, B.** and Saravanathamizhan, R. 'Chemical and non-chemical pretreatment techniques for bio ethanol production from biomass'. Int J Energ Water Res (2020).
- Thenmozhi, P., **Rekha, B.**, Saravanathamizhan, R. and Iyappan, K.'Thermogravimetric and Kinetic Study of Pyrolysis of Corn Cob Biomass'. Journal of Renewable Energy and Environment, (2019)6(4), pp. 35-40.
- Rajeswari, K, **Rekha, B.**, Saravanathamizhan, R. Promotion of enzymatic hydrolysis of lignocellulosic biomass using natural additives for bioethanol production. Environ Qual Manage. 2020; 1– 7.

Papers communicated

Production of bioethanol from Palmyra peel using sulfonated iron oxide nano catalyst

Academic Projects:

- Studied serological status of Leptospira in human, at Leptospirosis Diagnostic Centre, TANUVAS, Madhavaram, from Dec 2011 to Mar 2012.
- A study on development of potential protein vaccine coupled with nanoparticle for chicken coccidiosis, at TANUVAS, Madhavaram, from Nov 2013 to Apr 2014.

Conferences and Workshops:

- Attended 5 days training on "*The State Of Art-Analytical Instruments*", Feb 2020, Sponsored by UGC XII Plan Scheme and organized by Department of Chemical Engineering & Department of Applied Science and Technology A.C.Tech Campus, Anna University, Chennai.
- Participated in workshop on "*Application of Statistics Using Excel and SPSS In Research*", Apr 2020, AIMST University, Malaysia organized at Prathyusha Engineering College.
- Presented paper at "*International Conference on Sustainable Future: Resource Recovery and Concentrate Management*" Organized by Wiley on Jan 2020, held at Anna University Chennai.
- Participated in 5-day Faculty Development Training Programme "*CH6701-Chemical Reaction Engineering-II*" held in May 2019, organized by Department of Chemical Engineering Sponsored by AICTE & Anna University, Chennai.
- Presented paper on "*Thermogravimetric analysis of pyrolysis characteristics of ultrasonic assisted pretreated biomass*" at international conference on waste energy and environment ICWEE-2018 organized by Satyabhama Institute of Science and Technology, Chennai, Sep 2018.
- Participated in 1 day workshop on 'Research For Resurgence', Mar 2018 at College Of Engineering Guindy, Anna University, Chennai, organized by Centre For Research, Anna University and Research for Resurgence Foundation, Nagpur.
- Presented a paper titled "*Innovations, Implementations and controversies of Animal Biotechnology*" in the National Conference held in Mar 2014 organized by Bharathidasan University, Thiruchirapalli.
- Participated in a workshop titled "*Essential molecular techniques in clinical applications*" in Frontier Mediville Research Institute.
- Participated in a training course on "*Microbial Fermentation & Downstream Processing*" held from Nov to Dec organized by ARMATS BIOTEK Training and Research Institute.
- Participated in the *Omics-'10 Technical Symposiums* conducted on 30th August, 2010 in Sri Venkateswara College of Engineering.



- In-plant training in southern railways, basic training centre, loco-works from Perambur on “*Preparation of Biodiesel*” in Dec 2010.

Professional Experience:

Neet Coordinator at Heta Academy, Vyasarpadi, Chennai
Duration: November 2017 - November 2018

Research Associate at ARMATS Biotek Training and Research Institute, Guindy, Chennai
Duration: June 2016 - June 2017

Medical Coder at Episource, Kandanchavadi, Chennai
Duration: June 2015 - March 2016

Current Position: Assistant Professor, Department of Biotechnology, SRMIST, Ramapuram, Chennai
Since: August 29th, 2023

Awards and Achievements:

- Received Certificate of Recognition for Outstanding PhD Research Work

Memberships:

NIL