

## Dr. Reena Rani

MBBS, MD (Biochemistry), Fellowship in Diabetology

Associate Professor

Department of Biochemistry

Dr. Ram Manohar Lohia Institute of Medical Sciences (RMLIMS), Lucknow, Uttar Pradesh

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### PROFESSIONAL SUMMARY

Dedicated **Associate Professor of Biochemistry** with over **10 years of combined academic, clinical, and research experience** from India's Premiere tertiary care medical institutions. Trained Consultant Biochemist and medical educator with strong expertise in **translational and molecular biochemistry**, metabolic inflammation, oxidative stress, and vascular dysfunction in **Type 2 Diabetes Mellitus (T2DM)**. Demonstrated excellence in **teaching, laboratory quality systems (ISO 15189), postgraduate mentorship, and interdisciplinary research**, with a growing national research footprint.

### CURRENT POSITION

#### Associate Professor, Biochemistry

Dr. Ram Manohar Lohia Institute of Medical Sciences (RMLIMS), Lucknow

*August 2025 – Present*

- Teaching MBBS, MD, DNB and allied health sciences students
- Academic coordination (MBBS & PG In-charge)
- Research supervision and clinical laboratory oversight

### EDUCATIONAL QUALIFICATIONS

Degree	Institution	Subject	Year	Grade
MBBS	JNMC, AMU, Aligarh	Medicine & Allied Subjects	2010	First
MD	JNMC, AMU, Aligarh	Biochemistry	2016	First
Fellowship in Diabetology	Medvarsity	Diabetology	2025	First
Advanced Certificate in Diabetes	Medvarsity	Diabetes Care	2024	

**Medical Registration:** Uttar Pradesh Medical Council – **75146**

### ACADEMIC & PROFESSIONAL EXPERIENCE

Associate Professor

- **RMLIMS, Lucknow** (Aug 2025 – Present)
- **TMMC & RC, Moradabad** (Jan 2023 – July 2025)

#### **Assistant Professor**

- TMMC & RC, Moradabad (Dec 2022 – Jan 2023)
- Rohilkhand Medical College & Hospital, Bareilly (2019 – 2022)

#### **Senior Resident**

- Maulana Azad Medical College & Lok Nayak Hospital, New Delhi (2016 – 2019)

#### **Junior Resident**

- JNMC, AMU, Aligarh (2012 – 2015)
- **Core Responsibilities:**  
Teaching • Research • Clinical Diagnostics • Academic Administration

### **RESEARCH SPECIALIZATION & INTERESTS**

- Translational & Molecular Biochemistry
- **Metabolic Inflammation (Meta-inflammation)**
- Oxidative Stress & Mitochondrial Dysfunction
- **Stem/Progenitor Cell Dysfunction in T2DM**
- Vascular Repair & Endothelial Injury
- NAFLD, Thyroid Disorders, Diabetes Complications

### **RESEARCH EXPERIENCE (SUMMARY)**

- Extensive **cell culture–based experimental research** (apoptosis, oxidative stress, caspase pathways)
- Clinical and biochemical studies in **T2DM, NAFLD, thyroid disorders**
- COVID-19 biomarker research (severity, ICU predictors, vaccination response)
- Systematic reviews and **epigenetics-oriented research**
- Strong integration of **bench science with clinical translation**

### **PUBLICATIONS**

**Total Publications: 16**

### **In Metabolic Disorders, Oxidative Stress & Diabetes**

- Lipid profile in T2DM – *IJCPRR*, 2024
- Oxidative stress in NAFLD – *African J Biol Sci*, 2024
- Hypothyroidism & calcium/magnesium – *IJPCR*, 2024
- Liver function & alcohol intake – *IJTPR*, 2024
- Epigenetics in allergy – *Russian Journal of Allergy*, 2025

### **Other Areas (Cancer, Neurology, Medical Education)**

- Resveratrol-induced apoptosis in HPV-positive cancer cells – 2019
- Mitochondrial dysfunction in Parkinson's disease – *Tissue Barriers*, 2025
- COVID-19 clinical markers & education research – 2020–2021

### **BOOK**

- **Cell Biology – Molecular Approach**  
Scientific International Publishing House, 2024

### **PG GUIDANCE**

- **MD Thesis (Guide):** 2 completed
- **Co-Guide:** 1 completed + 2 DNB ongoing

### **AWARDS & ACHIEVEMENTS**

- 1 year Fellowship in Diabetes Mellitus from Medvarsity 2024
- Advanced Certificate in Diabetes, Medvarsity, 2024
- **Best Poster Award** – Indian Academy of Biomedical Sciences, 2013
- WHO Health Emergencies Programme Contributor – 2020
- Elite + Silver Certification – Basic Course in Biomedical Research
- Trained in **Cell Culture Techniques** – MAMC, New Delhi
- **Presented papers and posters in various national and international conferences.**

### **ACADEMIC & PROFESSIONAL ROLES**

- NABL Coordinator (Biochemistry) for NABL Inspection at TMMC & RC, Moradabad, 2024
- Trained in ISO 15189:2022 Internal Audit & Laboratory Quality Management System

- Guest Lecture CME “Demystifying the iceberg of clinical Biochemistry Lab Challenges” TMMC & RC, Moradabad, UP
- Lecture on Applications of ICP-MS & LC-MS , National pre conference workshop AMUCON 2025
- PG Biochemistry Incharge, RMLIMS, Lucknow
- Faculty Incharge Green OPD Postings Biochemistry Department, RMLIMS, Lucknow
- Faculty Incharge Nursing Teaching Biochemistry, RMLIMS, Lucknow
- External Examiner (BDS) – RMCH Bareilly
- External Examiner Paramedical KGMU, 2026
- Judge – ACCLMPCON 2026 (Oral & Poster)
- Organizing Committee – IABS 2013, AMUCON 2025
- Workshop Coordinator and Organizing Committee AMUCON 2025
- Joint Chairperson Cultural Committee, Session Convener at ACCLMPCON 2026
- Exam Observer for prelims and mains exam for nursing officers, 2025.
- Exam Supervisor for MBBS, PG, Nursing and Paramedical Professional Exam.

**Permanent Member of Eminent Academic Bodies Like**

- 1.AMBI
- 2.IMA
- 3.ACCLMP
- 4.AIPCMA
5. UNICEF donor family