

Dr. Muni Kumar Dokka

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Profile Summary

Experienced academic researcher and Associate Professor with over 13 years of research and 11 years of teaching experience in Biochemistry, focusing on clinical biochemistry, enzymology, and plant protease inhibitors. Expertise in isolation, characterization, and biological applications of bioactive molecules including anticancer and antimicrobial agents. Proven record of research publications, project leadership, and training in advanced biochemical techniques.

Current Position

Associate Professor, Department of Biochemistry
School of Allied & Healthcare Sciences, Malla Reddy University, Hyderabad
April 2023 – Till date.

Assistant Professor, Department of Biochemistry
School of Allied & Healthcare Sciences, Malla Reddy University, Hyderabad
June 2022 – March, 2023.

Educational Qualifications

- **Postdoctoral Research**, Biochemistry, Andhra University (2015–2020)
- **Ph.D Biochemistry**, Andhra University (2008–2014)
- **M.Sc Biochemistry**, Andhra University (2004–2006)
First Class with Distinction; University First Rank

Broad area of Research

- Clinical Biochemistry and Enzymology-
- Protease Inhibitors: isolation, characterization and functional analysis
- Microbial Biotechnology
- Nanotechnology, Computational Biology
- Bioactive molecules and their biological applications, including antimicrobial, insecticidal, and anticancer activities

Teaching Experience

- 11 years of teaching for undergraduate and postgraduate Biochemistry courses.

Research Experience

- Over 13 years of research experience, including doctoral and postdoctoral studies focused on enzymology, protease inhibitors, and their therapeutic applications, carried out in the Department of Biochemistry, Andhra University, Visakhapatnam.

Technical Skills

- Advanced analytical instruments: SEM-EDS, LC-MS, HPTLC, HPLC, Fluorescence Microscopy.
- Protein purification, enzyme kinetics, electrophoretic and chromatographic methods.
- Molecular biology: DNA/RNA isolation, PCR, cloning, recombinant techniques.

Papers published in International & National Journals	: 45
Books/ Book Chapters published	: 02
National Seminars / Conferences Participated /Papers presented	: 55
Workshops/FDP's attended	: 15
No. of Patents/Patent Designs	: 03

1. Patent No: **2023/03153**, Date of Approval: **31/05/2023**.
Sponsoring Agency: **Republic of South Africa**
Title: **Pharmaceutical composition for Reducing of Cardiovascular diseases**
Status: **Published**
2. Patent Design No: 417200-001; Date of Approval: **17/05/2024**
Sponsoring Agency: **Government of India**
Title: **HEALTH NUTRITION ANALYZER**
Status: **Published**
3. Patent Design No: 416986-001; Date of Approval: **15/05/2024**
Sponsoring Agency: **Government of India**
Title: **DIGITAL NUTRITION SCALE**
Status: **Published**

Student Projects Guided (UG/PG): PG – 12; UG - 10

Academic achievements

1. Qualified prestigious **CSIR-UGC NET** (Council of Scientific and Industrial Research-University Grants Commission) National Eligibility Test – Both Junior Research Fellowship and Lectureship (Dec, 2005).
2. Recipient of UGC - Rajiv Gandhi National Fellowship (RGNF) (JRF and SRF) during 2008-13.
3. Qualified in GATE-2006 in Life Sciences with a score of 274 and All India Rank of 2558.
4. Secured **University First Rank (Gold medalist)** for M.Sc. Biochemistry with distinction (2004-2006, Andhra University, Visakhapatnam, India).
5. **YOUNG SCIENTIST AWARD FROM ANDHRA PRADESH AKADEMI OF SCIENCES FOR THE YEAR 2016** for extensive research contributions in the field of Life Sciences from AP Akademi of Sciences, Amaravathi.
6. **YOUNG SCIENTIST AWARD for the year 2020 from Agro Environmental Development Society (AEDS)**, Rampur, Uttar Pradesh.
7. Received **BEST FACULTY AWARD – 2022** from Research Education Solutions (Registered as Micro Enterprise with MSME, Govt. of India in association with International School of Technology and Sciences, approved by AICTE, New Delhi & Affiliated to JNTUK) on 5th Sep, 2022.

Membership in professional bodies, or associations

- Society of Biological Chemists (India) (SBCI)
- Indian Science Congress Association (ISCA)
- AP Akademi of Sciences, Amaravathi.