



# MGM SCHOOL OF PHARMACY

(Constituent Unit of MGM Institute of Health Sciences  
Deemed to be University u/s 3 of UGC Act 1956)

Grade 'A<sup>++</sup>' Accredited by NAAC

Plot no-01, Kamothe, Navi Mumbai – 410 209

Approved by PCI (Pharmacy Council of India)

Name of the Faculty: **Mr Binith Raj**

Designation: **Assistant Professor**

Date of Joining: 2 July 2025

Email ID: [binithraj@outlook.com](mailto:binithraj@outlook.com)

Contact No: 8054040541

## EDUCATIONAL QUALIFICATION:

Degree / Specializations	Awarding University	Awarded Year
Ph. D. Pharmaceutical Sciences	SPPSPTM	Pursuing
M. Pharm Pharmacology	Amity University	2020
Bachelor of Pharmacy	Lovely Professional University	2018

## PROFESSIONAL EXPERIENCE:

- ❖ Working as an Assistant Professor from 2 July 2025 to present in MGM School of Pharmacy, Kamothe, Navi Mumbai – 410 209.
- ❖ Pharmaceutical researcher & Academician with hands-on experience in drug development, preclinical research, pharmacological studies, and regulatory affairs. Currently pursuing a Ph.D. in Pharmaceutical Sciences with a strong background in R&D operations, formulation sciences, and research ethics. Proficient in experimental design, data analysis, and interdisciplinary project execution. Skilled in hypothesis-driven research, protocol development, and optimization of experimental models for drug efficacy and safety assessment. Experienced in both in vitro and in vivo pharmacological evaluations, formulation screening, and novel therapeutic approaches. Adept at critical scientific analysis, literature review, and drafting regulatory-compliant scientific reports. Seeking to contribute to the R&D department with innovation, scientific rigor, and commitment to excellence.

## TOTAL EXPERIENCE IN YEARS:

- ❖ Teaching: 5 years
- ❖ Research- 5 years

## PROFESSIONAL MEMBERSHIP:

- ❖ APTI
- ❖ IPA
- ❖ Registered Pharmacist (Telengana)



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## COURSES TAUGHT:

Class	Semester	Subject code	Name of the subjects
B. Pharm	I	BP101T	Human Anatomy and Physiology 1
	II	BP201T	Human Anatomy and Physiology 1
	IV	BP404T	Pharmacology 2
	V	BP504T	Pharmacology 2

## RESEARCH STUDENTS GUIDED:

1. Co-Guidend 2 M. Pharm Students
2. Guided 1 Research Associate.

## AREA OF RESEARCH:

1. Molecular Oncology & Targeted Cancer Therapeutics
2. EGFR Signaling, Mutation Biology & Drug Resistance Mechanisms
3. Phytopharmacology & Plant-Derived Anticancer Agents (Gentiana kurroo)
4. Protein Misfolding, Aggregation & Fibrillation Biology
5. Development of Diagnostic Biosensors for Protein Aggregates
6. Translational Pharmacology & Preclinical Drug Development
7. Regenerative Medicine & Mesenchymal Stem Cell-Based Therapeutics
8. Cochlear Hair Cell Regeneration & Age/Noise-Induced Hearing Loss Models
9. Clinical Research Methodology, Trial Design & Regulatory Compliance (FDA, DCGI, IRB)
10. Pharmaceutical Product Formulation & Development (Topicals, Patches, Emulgels)
11. Spectroscopic Techniques for Biomolecular Interaction Studies
12. Metabolite-Protein Interaction & Metabolic Dysfunction in Disease Biology
13. Pharmacological Screening & In-vitro/In-vivo Evaluation Models
14. Drug Safety, Pharmacovigilance & Quality Control in Pharma



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## INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:

- ❖ Research and Development Committee.
- ❖ Member of IIC (Institution Innovation Council)
- ❖ NSS Coordinator

## PATENTS:

- ❖ Patent Published: Smart Neurotransmitter Monitoring Device. **Design No. : 432894-001**

## PUBLICATIONS:

1. Artificial Intelligence in Diagnosis and Management of Huntington's Disease DOI: 10.1186/s43088-023-00427-z
2. Dissecting the Glioblastoma Microenvironment: A New Frontier in Therapeutic Targeting: Review (Manuscript Under Preparation).
3. A Comparison of various surface modified formulations for the treatment of Colorectal Cancer. (Manuscript Under Preparation).
4. Potential Stem-cell therapy and its biological evaluation for the treatment of cancer. (Manuscript Under Preparation).

## SEMINARS/ WORKSHOPS/ CONFERENCES/ SYMPOSIUM/ WEBINARS:

(20+)

1. Molecular Docking with AutoDock (MNR College of Pharmacy)
2. Generic Transdermal Product Development (MET Mumbai)
3. Research Writing using MS Word (Bombay College of Pharmacy)
4. Pharmacovigilance Workshop (IPGA, LPU Chapter)
5. Military Training Camp Participation (Batch 2020)