



MALLIGE COLLEGE OF PHARMACY

#71, SILVEPURA, CHIKKABANAVARAPOST, BANGALORE-560090

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Patents and Innovations

1. Dr. Ahvini H. M., Rashmi H. R., Dr. Suma U. S., and Dr. Mamatha M. K. **“Development and Optimization of Erythromycin Loaded BSA Microspheres for Sustained Release and Passive Lung Targeting”** Indian Patent Application: 202611043052 A, October 10, 2026.
2. Ms. Anusha G. P., Dr. Rajendra S. V., Dr. Kuntal Das, Ms. Yashaswini C., Ms. Shreya Udupa, and Mr. Gaganraddi Shetaraddi. **“Evaluation of the Neuroprotective Activity of Root of Belosynapsis vivipara Against Aluminium Chloride-Induced Neurotoxicity”** Indian Patent Application: 202541001911, January 17, 2025.
3. Dr. Kuntal Das, Mrs. Poonam Saxena, Mrs. Bidya Bhusan, Mr. Naveen Kumar S., Mrs. Hemalatha S., and Mr. Jeevan Rai N. **“Evaluation of the Hepatoprotective Activity of Coscinium fenestratum Seed Ethanol Extract: Computational Molecular Docking and In Vitro Approaches”** Indian Patent Application: 202541032437, May 2, 2025.
4. Ms. Chaitra M., Dr. Sheeba F. R., Mr. Mahesha B. S., Mrs. Gayana P. M., and Dr. Mahesh K. G. **“Quercetin-Loaded Solid Lipid Nanoparticles Embedded in a Thermoresponsive In Situ Gel for Enhanced Topical Treatment of Melanoma”** Indian Patent Application: 202541076776, August 22, 2025.
5. Dr. Jeevan Rai N., Dr. Shailesh Yadav, Dr. Mandira Paul, Vineeth J., Jibi T. Saji, and Rohit Dandapat. **“Head Cooling Headband for Migraine”** Indian Patent Application: 474066-001, December 11, 2025.
6. Dr. Mandira Paul, Dr. Shailesh Yadav, Dr. Jeevan Rai N., Priya T. K., Kuntal Nandi, and Apsara T. M. **“AI-Based Organ Imaging and Analysis”** Indian Patent Application: 470851-001, December 5, 2025.



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7. Dr. Mandira Paul, Dr. Shailesh Yadav, Dr. Jeevan Rai, Nabanita Dasgupta, Shreya M. S., and Harshitha A. S. **“Drug Safety and Adverse Drug Reaction (ADR) Monitoring Device”** Indian Patent Application: 470850-001, December 10, 2025.
8. Dr. Mandira Paul, Dr. Shailesh Yadav, Dr. Jeevan Rai, Muiz Ahmed Syed, and Rohith H. M. **“Centralized ADR Monitoring System”** Canadian Patent Application: 1236741, September 6, 2025.
9. Ms. Bhoomika N. Joshi, Mrs. Nagalakshmi N. C., Dr. Shivakumar Swamy, Dr. Sandur V. Rajendra, Dr. Kuntal Das, Mr. Aish Ansari, and Mr. Pankaj Chaudhary. **“Synergistic Impact of Macroelements and Phenolic Bioactive Compound from Abelmoschus esculentus Ethanol Leaves Extract in Stress Management”** Indian Patent Application: 202441045506, June 21, 2024.
10. Mrs. Shaik Shafiya Begum, Dr. Kiran Dongar Patil, Miss Subhashini Nagaraj, Mrs. Goldee Yadav, Mrs. Anuva Samanta, Dr. Ashok Kumar Satapathy, Miss Hema Arya, Miss Vandana, Dr. Rashmi Prakash Gupta, and Dr. Wakale Vijaykumar Sidramappa. **“Computer-Aided Detection of Early-Stage Neoplasia by Using Volumetric Laser”** Indian Patent Application: 6316114, November 14, 2023.
11. Dr. Chennupati Venkata Suresh, Mr. Kundavaram Raju, Mr. Prem Kumar Bichala, Mr. Darwade Amol Popat, Mr. Pasupati Nath Tiwari, Mr. R. Nageswara Rao, Mr. Kiran Bhausahab Dhamak, Dr. Rashmi P., Miss Kamble Radhika Ramchandra, Dr. Duggirala Mahendra, Ms. Geeta Parasnath Darekar, and Dr. Suman Pattanayak. **“A System for Development and Validation of Stability Indicating Chromatographic Methods for Drugs Used in Bacterial Infection Diseases Applying Experimental Design”** Indian Patent Application: 202341052674, September 1, 2023.
12. Dr. Anasuya Patel, Dr. Nilesh Kumar, Dr. Kuntal Das, Mr. Sudipta Chakraborty, Ms. Dipali Ashok Tambe, Mr. Nilesh Ishwarlal Patil, Mrs. Surabhi Dwivedi, Ms. Ruchita Rajendra Giri, Mr. Shounak Paul, and Dr. Sonanki Keshri. **“Portable Device Used for**



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Measuring Sugar Level Through Saliva” Indian Patent Application: 391472-001, September 27, 2023.

13. Dr. Kuntal Das, Manjunath U Machale, Karthik R, Darla Raju, Dr Shadma Wahab, Avneet Gupta, Dr Vikneswari A, Dr K P Jaiganesh, Dr A Thangathirupathi, Dr Niladri Maiti. **“A Process to Prepare Effervescent Tablets of Famotidine and a Composition for the Same”** Indian Patent Application: 2023/02246, May 31, 2023.

14. Mr. Darla Raju, Dr. Kuntal Das, Mr. Arpan Kumar Tripathi, Dr. Somashekhar M. Metri, Dr. Sandeep Gupta, Dr. Pyare Lal, Mr. Pavan Kumar Krosuri, Mr. Narendra Kumar Nyole, Mr. Vivek Kaushik, and Mr. Vijay Singh Kachawan. **“Blister Machine for Pharmaceutical Purposes”** Republic of South Africa Patent Application: 202312277, May 22, 2023.

15. Dr. Kuntal Das, Dr. Nilesh Kumar, Kameswara Rao Sankula, Pavan Kumar Krosuri, Mohammad Muztaba, Raj Kumar Tiwari, Arman Dalal, Dr. Rinku Mathappan, Darla Raju, and Dr. Rahul Shivajirao Solunke. **“A Method for Developing Starch Microsphere Loaded with Aceclofenac”** Australian Patent Application: 2023/00654, March 29, 2023.

16. Muralidhar Rao Akkaladevi, Kuntal Das, Keshamma Entoori, Sharmil Suganya Rajan Babu, Venugopal Thrivengadam, Pandya Yogi Umeshbhai, Jayasankar Narayanan, Vasanthan Manimaran, Rajendran Sridevi, and Umesh Kumar Atneriya. **“Fluorometer”** UK Patent Application: 6280253, May 16, 2023.

17. Dr. Keshamma Entoori, Mrs. Poonam Saxena, Dr. Shaik Neelufar Sham, Mr. Arvind Singh Jadon, Ms. Payel Laha, Ms. Nisha Kumari Singh, Dr. Tenpattinam Shanmugam Sarawsthi, Mrs. Ankita Sahu, Miss Deepka Varvade, and Ms. Swati Saxena. **“Essential Oil Steam Pilot Extraction Equipment”** UK Patent Application: 6295237, September 19, 2023.



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18. Mr. Keerthy H. S., Mr. Santosh Kumar, Jyoti Saxena, Dr. Kumar Raja Jayavarapu, Dr. Neelam Rawai, Dr. Prof. G. G. N. Pramodini, Mr. Goarkh V. Deshmane, Rohit Yadav, Dr. P. Eswaramma, Mrs. Ruche Shivhare, Dr. Vidya Prafulla Sabale, and Ms. Ashwini Ingole. **“Nutraceutical Composition for Glycemic Control in Diabetes with Chromium Picolinate and Bitter Melon Extract”** Indian Patent Application: 202341046375, September 1, 2023.
19. Mrs. Mamatha M. K., Dr. Chennupati Venkata Suresh, Dr. Pavan Kumar Padarathi, Dr. Ritu Sanwal, Mrs. Rameswari, Mr. Vivek Srivastava, Mr. Rohit Kumar, Mr. Udaykumar Dasharath, Mr. Nittan Kumar, Mr. Gyanendra Dubey, Mr. Shaikh Salman Shaikh Jabbar, and Mr. Amol More. **“Evaluation of Effective Dose Combination of Sodium Oxybate and Alpinia galanga Extract for the Management of Narcolepsy Type-2 Against Scopolamine Induced Amnesia”** Indian Patent Application: 202341054716 A, September 1, 2023.
20. Dr. Rashmi P. **“A System for Development and Validation of Stability Indicating Chromatographic Methods for Drugs Used in Bacterial Infection Diseases Applying Experimental Design”** Indian Patent Application: 202341052674 A, September 1, 2023.
21. Dr. Kuntal Das, Mr. Supriya Mana, Mr. Hanumantharayappa, Mrs. Sheeba F. R., and Mrs. Poonam Saxena. **“In Vitro Antitubercular Activity of Leaves Ethanol Extract of Belosynopsis vivipara”** Indian Patent Application: 202341058932 A, October 6, 2023.
22. Ms. Gayana P. M., Mrs. Sheeba F. R., Dr. Kuntal Das, and Mr. Supriya Mana. **“Molecular Docking and In Vivo Study of Squalene from Lantana camara for Skin Wound Healing Activity”** Indian Patent Application: 202341061721 A, October 6, 2023.



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23. Dr. Kuntal Das, Dr. Pramita Das, Mr. Darla Raju, Dr. Suchin Tyagi, Dr. Dasari Vasavi Devi, Ms. Ranjeeta Verma, Dr. Rohini Karunakaran, Dr. Ojash Patel, Mrs. Nemalapalli Yamini, Dr. Shailendra Sharma, Dr. Umeshkumar Shah, and Dr. Nahid Abbas. **“A Thiazine Amide Derivative Having a Structure of Formula for Prevention or Treatment of Neurodegenerative Disease”** Indian Patent Application: 202341015482 A, March 17, 2023.

24. Prof. (Dr.) N. G. Raghavendra Rao, Dr. Ashvini H. M., Mrs. Suma U. S., Dr. Keshamma E., Mr. Sonkamble Sumedh Narayan, Dr. Kella Alekhya, Dr. Harjeet Singh, Ms. Jubilee R., Dr. Basu Venkateswara Reddy, Dr. S. Dhanalakshmi, Mr. Arpan Kumar Tripathi, and Mr. Chatlapelli Kishore. **“Ammonium Transmembrane Gradient System for Efficient Loading of Liposomes with Amphipathic Drugs and Their Controlled Release”** Indian Patent Application: 202311033412, July 28, 2023.