

RESUME

Dr. RAKESH ESHWARLAL MUTHA

M.Pharm, Ph. D. (Pharmacognosy)

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Department of Pharmacognosy,
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PERSONAL DETAILS

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| Permanent Address | "Ishwar-Chhaya", 87, Subhash Colony, Near Banumay High School, Shirpur, Dist Dhule (M.S.), India 425405 |
| Date of Birth | 8 th February 1982 |
| Gender | Male |
| Nationality | Indian |
| Languages Expertise | English, Hindi, Marathi & Marwadi |
| Marital Status | Married |
| Computer Literacy | M.S. office, internet, various softwares like Motic, Prism, Endnote, Mendeley, Kinetica, etc. |

DISSERTATION TOPIC DURING Ph. D.

- Formulation and Evaluation of Flavonoid Based Nanoparticulate Drug Delivery System
- **Research Guide:** Dr. S. J. Surana, Professor and Principal, R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist. Dhule

DISSERTATION TOPIC DURING POSTGRADUATION

- Investigation of some chemical compounds for their cytotoxicity towards marine crustacean
- **Research Guide:** Dr. R. B. Jadhav, Professor and Principal, SVPM's College of Pharmacy, Malegaon (BK), Baramati, Dist. Pune

APPROVALS

- University Ph.D. Guide Recognition in the subject Pharmacy: Letter No KBCNMU/11/Ph.D./ 236 /2022 (02-08-2022), w.e.f. 12/07/2022

- University P. G. Teacher Recognition in the subject Pharmacognosy: Letter No NMU/11/PGR/Pharmay./2362/2013 (12/11/13), w.e.f. 08/11/2013
- University approval as an Assistant Professor: Letter No. NMU/18/469/2012 (12/03/2012), w.e.f. 31/12/2011
- University approval as an Assistant Professor (for six months): Letter No. NMU/18/1516/2011 (27/09/2011), w.e.f. 02/07/2011
- University approval as Lecturer: Letter No. NMU/18/230/2011 (11/02/2011), w.e.f. 26/05/2010

EDUCATIONAL QUALIFICATION

| Course | Name of University | Month, Year | Results |
|---------------|---------------------------|--------------------|----------------|
| Ph. D. | KBC NMU, Jalgaon | May, 2021 | - |
| M. Pharmacy | NMU, Jalgaon | June, 2008 | 68.25 % |
| B. Pharmacy | University of Pune, Pune | April, 2003 | 64.76 % |
| H. S. C. | Divisional Board, Pune | February, 1999 | 67.33 % |
| S. S. C. | Divisional Board, Pune | March, 1997 | 67.06 % |

EXPERIENCES

- Presently working as Assistant Professor in H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist.- Dhule, since July 2011
- Worked as a Lecturer in Shree Sureshdada Jain Institute of Pharmaceutical Education and Research, Jamner, Dist.- Jalgaon (Three years)
- Worked as a Lecturer in Shree P.E. (Tatya) Patil Institute of Pharmacy, Jalgaon (Two years)
- Worked as Sales trainee in Vadnere Laboratories (Pharmaceutical Division), Jalgaon (Five months)
- Worked as Co-editor for annual magazine "Kshitij" of R. C. Patel College of Pharmacy, Shirpur, Dist.- Dhule
- Worked as Staff Editor for annual magazine "Pharmasphere - 2009-10" and "Pharmasphere - 2010-11" of Shree Sureshdada Jain Institute of Pharmaceutical Education and Research, Jamner, Dist.- Jalgaon
- Worked as a Team Manager for North Maharashtra University level youth festival "Yuvarang 2010" held at ASC College, Shahada (8th – 11th Jan. 2011)

- Worked as a Team Manager for North Maharashtra University level youth festival “Yuvarang 2014” held at G. T. Patil Arts, Commerce and Science College, Nandurbar (16th – 20th Jan. 2015)

ADDITIONAL QUALIFICATION

- Completed certificate course “Facilitating Excellence in Effective Leadership (FEEL)” conducted by CLHRD, Mangalore (Karnataka) at R. C. Patel College of Pharmacy, Shirpur (3rd – 9th July 2007).
- Completed online non-credit course “Assessment for Learning” authorized by University of Illinois at Urbana-Champaign and offered through Coursera (9th Feb. 2020)
- Completed online non-credit course “Write Professional Emails in English” authorized by Georgia Institute of Technology and offered through Coursera (15th Sep. 2020)
- Completed online non-credit course “Learning to Teach Online” authorized by UNSW Sydney (The University of New South Wales) and offered through Coursera (9th Feb. 2020)
- Completed online non-credit course “Positive Psychology” authorized by The University of North Carolina at Chapel Hill and offered through Coursera (23rd Nov. 2020)

FACULTY DEVELOPMENT PROGRAMME PARTICIPATED

- Participated in one week e-International FDP on "Herbal Medicine Research and Global Health" organized by K. T. Patil College of Pharmacy, Osmanabad (9th - 14th Feb. 2022)
- Participated in one week AICTE Training And Learning (ATAL) Academy Online FDP on "Design Thinking" organized by Anand Pharmacy College, Anand (23rd - 27th Nov. 2020)
- Participated in one week AICTE Training And Learning (ATAL) Academy Online FDP on "Personal Effectiveness" organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (21st – 25th Sep. 2020)
- Participated in one week Online International FDP on “Emerging Innovations and Insights in Pharmaceutical Sciences” jointly organized by Jawaharlal Nehru Technological University, Kakinada and V V Institute of Pharmaceutical Sciences, Gudlavalleru (A. P.) (8th – 13th June 2020)

- Participated in two days Online International FDP On “Standardization and Regulatory Measures of Herbal Drugs (SRH)” organized by the Department of Botany, Bon Secours College for Women, Thanjavur, Tamilnadu (3rd – 4th June 2020)
- Participated in one week National Level e-FDP on “Comprehensive Quality Initiatives for Higher Education in Pandemic Era” organized by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat (26th – 30th May 2020)
- Participated in one week e-FDP on “Teachers and Ethics: Balance in Research, Teaching, Socio-professional Values and Attitude” organized by Sir Dr. M.S. Gosavi College of Pharmaceutical Education and Research, Nashik (20th - 25th May 2020)
- Completed eight weeks National MOOCs FDP on “Creating Open Source Cloud based Gnomio Moodle of Your Own Subject for OBE” on 16th Dec. 2019.
- Participated in one week FDP on “Recent Advances in Pharmaceutical Sciences” at School of Pharmacy and Technology Management, NMIMS, Shirpur Campus (11th - 15th April 2016)
- Participated in two week FDP on “Recent Advancements on Herbal Formulations and Drug Delivery Systems of Indian System of Medicine” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur (27th May – 8th June 2013)

GRANT RECEIVED

- Received Grant of Rs. 65,000 from North Maharashtra University under VCRMS scheme for the project entitled “Formulation and evaluation of nanoparticulate drug delivery system” (01/10/2014 to 30/09/2016)

INVITED TALK

- Delivered talk on the topic “Women Empowerment” at NSS Camp, Wanaval organized by Institute of Management Research and Development, Shirpur (24th Jan. 2023)
- Delivered scientific talk on the topic “Overview of Alkaloids” at Shri Prakashchand Jain College of Pharmacy and Research, Palaskhede, Jamner (29th Nov. 2022)
- Delivered scientific talk on the topic “Easy way to learn Pharmacognosy” at S.M.B.T Institute of D. Pharmacy, Dhamangaon, Nashik (24th Jan. 2022)
- Delivered scientific talk on the topic “Nanodelivery of Flavonoids” in six days Short-Term Training Programme (STTP) on “An Exploration of Novel Drug Delivery

System in Herbal Medicine” at Bharati Vidyapeeth’s College of Pharmacy, Kolhapur (27th Aug. 2021)

- Delivered talk on the topic “Pharmacy Education: Motivate Myself” at S.M.B.T Institute of D. Pharmacy, Dhamangaon, Nashik (31st Oct. 2020)
- Delivered scientific talk on the topic “Easy way to learn Pharmacognosy’ at Walmik College of Pharmacy, Kannad, Aurangabad (14th Dec. 2019)
- Delivered scientific talk on the topic “Phytochemicals: Pathfinders for new drug development” in one day national level conference on “Current Perspectives and Future Trends on Organic Chemistry of Biomolecules” at KYDSCT’s College of Pharmacy, Sakegaon, Bhusawal (30th Jan. 2018)

SCIENTIFIC CONFERENCE/SEMINAR/WORKSHOP ORGANIZED

- National Employment and Entrepreneurship Workshop (28th Feb. 2023)
- Entrepreneurship Skill Development Workshop (26th Feb. 2022)
- National Symposium on Herbal Medicine” (29th Feb. 2020)

SCIENTIFIC CONFERENCE/SEMINAR ATTENDED

- Presented poster in the district level research festival “Avishkar-2022” organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (18th Oct. 2022)
- Presented poster in AICTE sponsored online national conference on “Pharma QbD: Product Development Perspective” at Dadasaheb Balpande College of Pharmacy, Besa, Nagpur (3rd & 4th Sep. 2021)
- Presented paper in national conference on “Global Perspective Towards Green Pharmacy and Modern Era of Phyto-pharmaceuticals” at Smriti College of Pharmaceutical Education, Indore and secured **Third prize** (18th Jan. 2020)
- Presented poster in the university level research festival “Avishkar-2019” organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon and secured **First prize in teacher category** (8th & 9th Jan. 2020)
- Presented poster in the district level research festival “Avishkar-2019” organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (30th Dec. 2019)
- Attended one week short term training program (STTP) on “Exploring Herbal Domain Through Newer Techniques: Approach and Application” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur (2nd to 7th Dec. 2019) and won **First prize** in exam.

- Attended INSPIRE INTERNSHIP CAMP organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (19th to 23rd Nov. 2019)
- Attended two days national conference on “Current Trends and Novel Techniques in Pharmaceutical Research and Development” at SNJB’s Shriman Sureshdada Jain College of Pharmacy, Chandwad (18th & 19th Nov. 2019)
- Attended national level seminar on “Entrepreneurship Development Program on How to start a Business, Finance and Project Report” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (12th March 2019)
- Presented poster in the district level research festival “Avishkar-2018” organized by North Maharashtra University, Jalgaon (26th Dec. 2018)
- Attended one day national level conference on “Recent Advancements in Chromatography and Hyphenated Techniques” at DCS’s A. R. A. College of Pharmacy, Nagaon, Dhule (10th Feb. 2018)
- Presented poster in one day national level conference on “Current Perspectives and Future Trends on Organic Chemistry of Biomolecules” at KYDSCT’s College of Pharmacy, Sakegaon, Bhusawal (30th Jan. 2018)
- Attended INSPIRE INTERNSHIP CAMP organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (2nd to 6th Jan. 2018)
- Presented poster in the university level research festival “Avishkar-2017” organized by North Maharashtra University, Jalgaon in PPG category (29th & 30th Dec 2017)
- Presented poster in the district level research festival “Avishkar-2015” organized by North Maharashtra University, Jalgaon (21st Dec. 2017)
- Attended two days personality development workshop ‘Junoon-2017’ organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (20th to 21st Feb. 2017)
- Attended state level “Technical Quiz Competition 16-17” at H. R. Patel Institute of Pharmacy, Shirpur (4th Feb. 2017)
- Presented poster in the District level research festival “Avishkar-2016” organized by North Maharashtra University, Jalgaon (3rd Jan. 2017)
- Presented poster in international conference on “Artificial Intelligence in Health Care” at SVKM’s NMIMS, Mukesh Patel Technology Park, Shirpur (27th - 28th Dec. 2016)
- Attended national level seminar on “Current Perspectives in Pharmaceutical Field” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur (8th Oct. 2016)

- Attended national level seminar on “Recent Advances in Novel Drug Delivery System” at P.S.G.V.P. Mandal’s College of Pharmacy, Shahada (5th Oct. 2016)
- Attended INSPIRE INTERNSHIP CAMP organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (27th Sep. to 1st Oct. 2016)
- Attended national level seminar on “Innovative Concepts and Methodologies in Pharmaceutical Research-2” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (19th March 2016)
- Attended state level seminar on “Preventing suicide-A global imperative” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (27th Feb. 2016)
- Attended INSPIRE INTERNSHIP CAMP organized by H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (15th to 19th Feb. 2016)
- Attended one day state level seminar on “Intellectual Property Rights, Patents: Present Need and Opportunities” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (23rd Jan. 2016)
- Presented poster in the Inter-University research Convention “Avishkar-2015” organized by Savitribai Phule Pune University, Pune (10th to 12th Jan. 2016)
- Attended national level workshop on “Materials Characterization Techniques” organized by School of Physical Sciences, North Maharashtra University, Jalgaon (8th Jan. 2016)
- Presented poster in the university level research festival “Avishkar-2015” organized by North Maharashtra University, Jalgaon (2015) and secured **Second prize** in **teacher category** (22nd & 23rd Dec. 2015)
- Presented poster in the district level research festival “Avishkar-2015” organized by North Maharashtra University, Jalgaon (22nd Nov. 2015)
- Attended national level seminar on “Innovative Concepts and Methodologies in Pharmaceutical Research” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (4th March 2015)
- Attended one day seminar on” Healthcare Delivery at Rural India: Need to rejuvenate Healthcare system” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (16th Jan. 2015)
- Attended national level field workshop on “Medicinal Plants in Western Ghats” at Kulgi, Dandeli, Karnataka organized by Regional Medical Research Centre (ICMR), Belgaum (6th to 8th Jan. 2015)
- Attended state level seminar on “Nanoparticle – Boon for Drug Delivery System” at Samajshri Prashantdada Hiray College of Pharmacy, Malegaon, Dist. Nashik (3rd & 4th Dec. 2014)

- Attended Parallel Session of Third Global Sustainable Biotech Congress 2014 at R. C. Patel ASC College, Shirpur (2nd Dec. 2014)
- Attended state level seminar on “Optimization Techniques in Pharmaceutical Formulation and Processing” at Sanjivani College of Pharmaceutical Education and Research, Kopargaon (14th Nov. 2014)
- Presented poster in national level seminar on “Role of Pharma Clinic in Health Care Profession of Indian Rural Area” at P.S.G.V.P. Mandal’s College of Pharmacy, Shahada (17th & 18th Oct. 2014)
- Attended two days national level Seminar on “Emerging Trends and Job Opportunity in Pharmaceutical Field” at Department of Pharmacy, Government Polytechnic, Jalgaon (23rd & 24th Dec. 2013)
- Presented poster in the 17th Annual Convention of Society of Pharmacognosy and International Symposium on “Frontiers in Herbal Cosmetics and Nutraceuticals” at Gyani Inder Singh Institute of Professional Studies, Dehradun (23rd & 24th Feb. 2013)
- Attended national level seminar on “Recent Trends in Pharmaceutical Research: Emphasis on Viscosity and Texture Characterization” at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur (15th March 2013)
- Attended one day national level conference on “Trends in Chromatography and Spectroscopic Techniques” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur (6th Oct. 2012)
- Attended three days national level conference on “Development, Regulatory and Intellectual Aspects of Drug Delivery Systems” at Amrutvahini College of Pharmacy, Sangamner (16th – 18th Feb. 2012)
- Attended two days state level conference on “Recent Trends in Drug Designing and Analytical Techniques” at Amrutvahini College of Pharmacy, Sangamner (15th & 16th Feb. 2012)
- Attended AUPPC sponsored national level seminar on “Recent Advances in Polymer Science” at P.S.G.V.P. Mandal’s College of Pharmacy, Shahada (24th & 25th Feb. 2012)
- Attended AYUSH sponsored national level seminar on “Current Trends and Recent Advancements on Herbal Formulations” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur (21st & 22nd Feb. 2012)
- Attended University of Pune sponsored one day state level seminar on “Recent Trends in Controlled Drug Delivery Systems” at Loknete Dr. J. D. Pawar College of Pharmacy, Manur, Nashik (8th Jan. 2011)

- Attended University of Pune sponsored one day state level seminar on “Potentials of Plant derived Pharmaceuticals” at MES’s College of Pharmacy, Sonai, Newasa, Ahmednagar (15th Jan. 2011)
- Attended University of Pune sponsored two days state level seminar on “Biopharmaceutical and State aspects in Drug Delivery system” at SNJB’s Shriman Sureshdada Jain College of Pharmacy, Chandwad, Nashik (10th & 11th March 2011)
- Attended National Workshop on “Developing Quality Monographs for Pharmacopoeia for Herbs and Herbal Products” at Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR), New Delhi (27th & 28th Nov. 2009)
- Attended 60th Indian Pharmaceutical Congress on “Pharma vision 2020 - Regulations for Better Healthcare” at New Delhi (12th – 14th Dec. 2008)
- Presented poster in the 3rd Indo-Canadian Symposium at Government College of Pharmacy, Aurangabad (27th – 29th March 2008)
- Presented poster in the in the Satellite Meeting on “Free Radicals and Antioxidants in Human Health, Gene Regulation and Signal Transduction” at All India Institute of Medical Sciences (AIIMS), New Delhi (2008)
- Presented poster in the university level research festival “Avishkar-2007” organized by North Maharashtra University, Jalgaon (18th & 19th Dec. 2007)
- Attended State Level one day seminar on “Recent Trends in Drug Discovery, Metabolism and Drug Legislation” at Smt. S.S. Patil College of Pharmacy, Chopda (25th Feb. 2007)
- Presented poster in the two days national conference on “Recent Trends in Phytopharmaceuticals and Nutraceuticals” at R.C. Patel college of Pharmacy, Shirpur, Dist.- Dhule (5th & 6th Nov. 2006)
- Attended 54th Indian Pharmaceutical Congress on “Biotechnology – A Challenge to Pharmacy Profession” at Pune (13th – 15th Dec. 2002)

BOOK/BOOK CHAPTER

- Dr. Yogesh Ushir, Dr. Rakesh Mutha, Ms. Supriya Garud, Concise Textbook of Pharmacognosy, Pharma Carrier Publication, Nashik
- Mrs. Sandhya Godi, Dr. Kapil Malviya, Dr. Rakesh Mutha, Biochemistry and Clinical Pathology, Manual Practical Book, Sankalp Publication, Bilaspur (C.G.)
- Dr. Rakesh Mutha, Dr. Piyush Bafna, Mr. Saurabh Maru, Role of block co-polymers in targeted drug delivery, Springer Nature.
- Mr. Vishal S Bagul, Dr. Piyush S Bafna, Mr. Deepak M Patil, Dr. Rakesh E Mutha, Classification of Crude Drugs of Natural Origin, Wiley. (Book Chapter submitted)

- Dr. Rakesh Mutha, Mr. Vishal S Bagul, Dr. Rahul Tade, An Overview of Artificial Intelligence (AI) In Drug Delivery and Development, Bentham Science Publishers. (Book Chapter submitted)

RESEARCH / REVIEW PUBLICATIONS

- C. R. Pawar, R. E. Mutha, A. D. Landge, R. B. Jadhav, S. J. Surana, Antioxidant and cytotoxic activities of *Caesalpinia pulcherrima* wood, "Indian Journal of Biochemistry and Biophysics", Vol. 46, April 2009, 198-200. **(Impact factor: 0.574)**
- R. E. Mutha, R. D. Shimpi, R. B. Jadhav, Study of preliminary anticancer potential of some hemi-parasite plants, "International Journal of Pharmaceutical Research and Development", Vol. 02, Issue I, March 2010, 01-04.
- P. A. Salunke, N. D. Borkar, P. S. Borole, S. L. Borul, R. E. Mutha, P. S. Kawtikwar, Study of anthelmintic activity of roots of *Nyctanthes arbor-tritis*, "Indian Drugs", Vol. 48, Issue 09, September 2011, 37-39.
- R. E. Mutha, V. V. Tahakik, P. S. Sonawane, S. M. Swami, S. S. Lahase, Anthelmintic activity of arial parts of *Portulaca oleracea* herb, "Indian Drugs", Vol. 49, Issue 03, March 2012, 52-54.
- P. A. Salunke, M. R. Bhurat, P. S. Salunkhe, S. P. Pawar, R. H. Pawara, R. E. Mutha, Evaluation of the antinociceptive properties from *Nyctanthes arbor-tritis* roots extracts using experimental animal models, "Journal of Pharmacy Research", Vol. 05, No.6, 2012, 3056-3058.
- R. E. Mutha, D. M. Dhumal, P. H. Patil, A. A. Shirkhedkar, S. B. Bari, Quantitative determination of raloxifene hydrochloride in bulk and tablet formulation by UV-spectrophotometry and first order derivative using area under curve method, "Indian Drugs", Vol. 49, Issue 09, September 2012, 40-43.
- R. E. Mutha, R. D. Shimpi, P. S. Gayakwad, A. J. Gavit, Herbal drug awareness and relative popularity in Jamner area, "International Journal of Pharmacy and Biological Sciences", Vol. 03, Issue 01, Jan-March 2013, 387-391.
- G. M. Marathe, V. V. Pande, P. H. Patil, R. E. Mutha, S. B. Bari, Quantitative determination of deferasirox in bulk and pharmaceutical formulations by UV spectrophotometric method, "Indian Drugs", Vol. 50, Issue 02, February 2013, 27-32.
- A. U. Tatiya, P. M. Puranik, S. J. Surana, Y. S. Patil, R. E. Mutha, Evaluation of hypolipidemic, antidiabetic and antioxidant activity of *Eulophia herbacea* tubers, "Bangladesh Journal of Pharmacology", Vol. 08, Issue 03, June 2013, 269-275. **(Impact factor: 0.627)**

- A. U. Tatiya, P. R. Dande, R. E. Mutha, S. J. Surana, Effect of saponins from *Sesbania sesban* L. (Merr) on acute and chronic inflammation in experimental induced animals, "Journal of Biological Sciences", Vol. 13, Issue 03, 2013, 123-130.
- P. H. Patil, R. S. Solanki, R. R. Varude, R. E. Mutha, Reproductive health problems of women in rural Dhule: Observations from a community survey, "Journal of Pharmacy and Phytotherapeutics", Vol. 02, Issue 02, March-April 2014, 08-09.
- R. E. Mutha, P. S. Bafna, R. B. Jadhav, Preliminary anticancer study of *Dendrophthoe trigona* and *Dendrophthoe falcata* using Brine Shrimp Lethality Assay, "Research & Reviews: A Journal of Pharmacognosy", Vol. 1, Issue 02, Nov 2014, 23-25.
- R. E. Mutha, R. O. Sonawane, M. A. Patil, Design and optimization of nanocrystals based immediate release tablet of nateglinide, "Inventi Rapid: Pharm Tech", Vol. 2015, Issue 1, Jan-March 2015, 01-11.
- R. E. Mutha, P. H. Patil, R. N. Patil, V. V. Pande, Formulation and Evaluation of Deferasirox Orodisperse Tablet by Direct Compression Method, "Inventi Rapid: Pharm Tech", Vol. 2015, Issue 1, Jan-March 2015, 01-06.
- M. B. Patil, D. R. Patil, R. E. Mutha, Infant Healthcare by Tribals from Shirpur Tahsil of Dhule District of Maharashtra, "Golden Research Thoughts", Vol. 4, Issue 9, March 2015, 01-05.
- R. E. Mutha, S. S. Mahale, P. H. Patil, Prescribing Pattern in Paediatric Hospital of Rural Region in Northern Maharashtra, "Inventi Rapid: Pharmacy Practice", Vol. 2018, Issue 1, Jan 2018, 01-03.
- R. E. Mutha, S. J. Surana, Ultrasonic frequency based development of chrysin nanoparticles: assessment of bioavailability, anti-cancer activity and stability, "Materials Technology" Vol. 33, Issue 7, April 2018, 495–505. **(Impact factor: 1.820)**
- R. E. Mutha, V. K. Chatap, V. K. Patil, H. M. Chachare, Formulation and evaluation of sertaconazole nitrate microsponge gel, "Inventi Rapid: NDDS", Vol. 2018, Issue 3, 01-07.
- P. H. Patil, P. S. Bafna, R. B. Pawara, R. E. Mutha, Traditional knowledge of medicinal plants in tribes of Khandesh: Need of time to preserve for prosperity of mankind, "International Journal of PharmaO₂", Vol. 2, Issue 4, June 2020, 237-241.

- R. E. Mutha, A. U. Tatiya, S. J. Surana, Flavonoids as natural phenolic compounds and their role in therapeutics: an overview. "Future Journal of Pharmaceutical Sciences", Issue 7, Article number 25, Jan 2021, 01-13. **(Impact factor: 2.6)**
- M. G. Kalaskar, R. E. Mutha, A. U. Tatiya, S. D. Firke, S. J. Surana, K. A. Dhoka, K. Heda, Purification and modification of neem gum for enhancement of its suspending property, "Future Journal of Pharmaceutical Sciences", Issue 7, Article number 114, June 2021, 01-08.
- P. K. Deshmukh, R. E. Mutha, S. J. Surana, Electrostatic deposition assisted preparation, characterization and evaluation of chrysin liposomes for breast cancer treatment, "Drug Development and Industrial Pharmacy", Vol. 47, Issue 5, May 2021, 01-11. **(Impact factor: 3.225)**
- P. S. Bafna, P. H. Patil, S. K. Maru, R. E. Mutha, *Cissus quadrangularis* L.: A Comprehensive Multidisciplinary Review, "Journal of Ethnopharmacology", Vol. 279, Issue 2021, June 2021, 01-21. **(Impact factor: 4.360)**
- R. E. Mutha, K. J. Tiwari, D. M. Kokate, Y. V. Ushir, Pharmacognostic Studies on *Anisomeles Heyneana* Benth. (Labiatae), "Journal of the Maharaja Sayajirao University of Baroda", Vol. 55, Issue 1(X), January 2022, 232-244.
- P. R. Sapkal, A. U. Tatiya, S. D. Firke, V. K. Redasani, S. S. Gurav, M. Ayyanar, P. G. Jamkhande, S. J. Surana, R. E. Mutha, M. G. Kalaskar, Phytochemical profile, antioxidant, cytotoxic and anti-inflammatory activities of stem bark extract and fractions of *Ailanthus excelsa* Roxb.: *In vitro*, *in vivo* and *in silico* approaches, "Heliyon", Vol. 9, April 2023, 1-15. **(Impact factor: 4.45)**
- K. P. Sinkar, P. S. Bafna, R. E. Mutha, Nanoprecipitation Based Preparation and Physicochemical Characterization of Flavonoid Nanoparticles, "Journal of Plant Resources", Vol. 20, Issue 2 Special Issue, December 2022, 139-145.
- R. E. Mutha, S. N. Jain, S. R. Patel, G. B. Patil, Formulation, Development, and Characterization of Carboxymethyl Chitosan Triggered Calcium Carbonate Hybrid Microspheres for Sustained Delivery of Quetiapine: *In-vitro* and *Ex-vivo* Studies, "Journal of Macromolecular Science, Part B", January 2024 **(Impact factor: 1.4)**
- R. E. Mutha, V. S. Bagul, Y. A. Sonar, P. S. Sugandhi, S. B. Bari, Exploring the Pharmacological Significance of *Terminalia chebula*: A Comprehensive Review, "Pharmaceutical Research", Springer (Accepted Manuscript) **(Impact factor: 4.0)**

PATENTS

- Complete Indian patent filed 'Isolation of 3-carene from turpentine oil' (**Application No. 202221010392**)

- Complete Indian patent filed 'Adaptable acupuncture footwear shoedal' (**Application No.** 202321019397)
- Complete Indian design patent registered 'Oven' (**Design No.** 389091-001)

PROJECT GUIDED AT POSTGRADUATE LEVEL

- Isolation and characterization of cellulose from *Rumex vesicarius* leaf waste for pharmaceutical application
- Isolation and characterization of mucilage from *Cocos nucifera* fruit waste for pharmaceutical application
- Isolation, modification, film formation and characterization of rice starch
- Isolation, modification film formation and characterization of wheat starch
- NADES based extraction and evaluation of antisickling effect of anthocyanin compounds from purple pods of yard long beans
- Formulation, characterization and evaluation of allicin embedded chitosan nanoparticles for its antifungal activity

PROJECT GUIDED AT UNDERGRADUATE LEVEL

- Review on Extraction Techniques
- Pharmacognostic study of *Averrhoa carambola* L. Leaves
- Formulation and Evaluation of Metformin Tablets Using *Okra* Mucilage as Binder
- Secondary Metabolites: An Overview
- Biomedical Waste Management
- Pharmacology & Phytochemistry of *Cissus quadrangularis*
- Phytosome: An Overview
- Herbal Immunomodulators
- Survey on Use of Dietary Health Supplements
- Recent Trends Towards Fast Dissolving Drug Delivery System
- Women's Empowerment in India: An Overview
- From Nutraceuticals to Pharmaceuticals: Old Wine in New Bottle
- Prevalence of Dysmenorrhea in College Going Girls to Develop and Distribute an Information Booklet
- Kids Addiction to Mobile Phone: Exploration by Questionnaire Method and Health Hazard
- Modification of Natural Polymer: Cellulose
- Recycling Techniques for Polythene and Polyethylene Materials (Plastic Materials)
- Non-solvent Plant Extraction Techniques

- Recent Advances in Extraction Techniques
- Isolation and Modifications of Starch from Rice

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I hereby declare that all the above information is true and correct to the best of my knowledge.

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