

DR. MANDAR BHALCHANDRA MULIK

Designation	Assistant Professor
Date of Joining	21062017
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EDUCATIONAL QUALIFICATION

Degree	Specializations	Awarding University	Awarded Year
Ph.D. (Tech)	Pharmacognosy	Institute of Chemical Technology, Mumbai	2016
M. Pharm	Medicinal Natural Product	Institute of Chemical Technology, Mumbai	2009
B. Pharm	Pharmacy	Institute of Chemical Technology, Mumbai	2005

COURSES TAUGHT

Class	Semester	Subject code	Name of the subjects
First Year B. Pharm	I	BP102T	Pharmaceutical Analysis I – Theory
	I	BP108P	Pharmaceutical Analysis I – Practical
	II	BP209P	Biochemistry – Practical
Second Year B. Pharm	IV	BP405T	Pharmacognosy and Phytochemistry I– Theory
	IV	BP409P	Pharmacognosy and Phytochemistry I – Practical
Third Year B. Pharm	V	BP504T	Pharmacognosy and Phytochemistry II– Theory
	V	BP508P	Pharmacognosy and Phytochemistry II –Practical
	VI	BP603T	Herbal Drug Technology – Theory
	VI	BP609P	Herbal Drug Technology – Practical
Final Year B. Pharm	VII	BP706PS	Practice School
	VIII	BP814PW	Project Work

RESEARCH STUDENT GUIDED/ONGOING

Degree	Specialization	Ongoing	Completed
Ph..D (Tech)	NA	NA	NA
M. Pharm	Pharmacognosy	4	1

AREA OF RESEARCH

- My research deals with an amalgamation of traditional complimentary medicine and natural product-based drug discovery. It involves cost-effective generation of isolation technologies.
- Development of herbal formulations using traditional approach along with a mechanistic understanding obtained by pharmacological evaluation.
- To evaluate (bioactivity) & standardize (with respect to phytoconstituents / marker compounds) Ethnobotanical& herbal formulations.
- Optimization of extraction parameters using RSM & QBD methodologies for process simplification of novel methods of extraction.

INDUSTRY PROJECTS

Title of the projects	Amount (Lakhs)	Funding	Status
Development and evaluation of bioactive phytopharmaceutical product	0.75	Mumbai University	Completed
Extraction & standardisation of polyherbal formulation	1.29	CIRA Herbals	Completed
Evaluation of polyherbal gummies	0.41	Rashi Pharma	Completed
HPLC analysis of herbal formulation	3.00	CIRA Herbals	Completed
Evaluation of extracts as per WHO guidelines	5.60	CIRA Herbals	Completed

LIST OF PUBLICATIONS

- Mulik MB, Laddha KS. Isolation, characterization and quantification of bioactive dibenzylbutyrolactone lignan (-)-cubebin from fruits of Piper cubeba L. Indian Journal of Natural Products and Resources 2015, 6(3): 189-193.
 - Mulik MB, Laddha KS. Isolation and characterization of aryltetraline type lignan from roots of Podophyllum emodi. Int J Health Sci Res. 2015; 5(8): 537-540.
 - Mulik M.B., Laddha K.S. Isolation and characterization of aristolochic acid - I from Aristolochia indica Linn. leaves. Indian Drugs 2013, 50(9): 52-53.
 - Mulik M.B., Katekhaye S.D., Laddha K.S. Quantification of β -amyrin in Bauhinia racemosa Lam. flower buds using HPTLC. Indian Drugs 2015, 52(3): 34-36.
 - Gholkar M.S., Mulik M.B., Laddha K.S. Fate of β -asarone in ayurvedic sodhana process of Vacha. J Ayurveda Integr Med 2013, 4(1): 19-22.
 - Shinde P.B., Mulik M.B., Katekhaye S.D., Laddha K.S. Rapid simultaneous determination of marmelosin, umbeliferone and scopoletin from Aegle marmelos fruit by RP-HPLC. J Food Sci Technol 2014, 51(9): 2251-2255.
 - Gauresh S. Somani, Mruniya S. Nahire, Aakash D. Parikh, Mandar B. Mulik, Priya J. Ghumatkar, Kirti S. Laddha & Sadhana Sathaye. Neuroprotective effect of Cubebin: A dibenzylbutyrolactone lignan on scopolamine-induced amnesia in mice. Indian J Med Res 2017, 146(2): 255-259.
 - Abhijeet Puri, Swati Patil, Mandar Mulik. Biomedical applications of biogenic phytonanoparticles: A review. Int J Bot Stud 2021, 6(3): 534-540.
 - Lalani Adil Md Rafique, Mandar Mulik. Ashwagandha: A natural rejuvenator. Int J Pharm Sci Res 2022, 7(2): 21-30.
- Book chapters (Co-author):
- Quality Standards of Indian Medicinal Plants, New Delhi: Medicinal Plants Unit, Indian Council of Medical Research. Vol.11, 2013.
 1. Adhatoda zeylanica Medik.
 2. Amorphophallus paeoniifolius (Dennst.)Nicolson
 3. Argyreia nervosa (Burm.f.) Bojer.
 4. Linum usitatissimum Linn.
 5. Mucuna pruriens (Linn.) DC.
 6. Vitex negundo Linn.
 - Quality Standards of Indian Medicinal Plants, New Delhi: Medicinal Plants Unit, Indian Council of Medical Research. Vol.12, 2013.
 1. Abrus precatorius
 2. Aegle marmelos
 3. Aesculus hippocastanum
 4. Amaranthus tricolor
 5. Buchnanan lanzan
 6. Cassia fistula
 7. Clerodendrum phlomidis
 8. Derris indica
 9. Dryopteris filix-mas
 10. Eucalyptus globules
 11. Lepidium sativum
 12. Leptadenia reticulata
 13. Sesamum orientale
 - Quality Standards of Indian Medicinal Plants, New Delhi: Medicinal Plants Unit, Indian Council of Medical Research. Vol.13, 2014.
 1. Ammi visnaga (Linn.) Lamk.
 2. Bauhinia vahlii Wight & Arn.
 3. Brassica campestris Linn.
 4. Ficus benghalensis Linn.
 - Quality Standards of Indian Medicinal Plants, New Delhi: Medicinal Plants Unit, Indian Council of Medical Research. Vol.14, 2016.



1. *Alectra parasitica* A. Rich. ssp. *Chitrakutensis* (M. A. Rau) K. K.
2. *Althea officinalis* Linn.
3. *Antiaris toxicaria* (Pers.) Lesch.
4. *Apama siliquosa* Lamk.
5. *Aristolochia indica* Linn.
6. *Brassica compestris* Linn. (Oil)
7. *Prosopis cineraria* (Linn.) Druce
- Quality Standards of Indian Medicinal Plants, New Delhi: Medicinal Plants Unit, Indian Council of Medical Research. Vol.15, 2017.
1. *Artemisia absinthium* Linn.
2. *Bauhinia racemosa* Lamk.
3. *Blepharis edulis* (Forssk.) Pers.
4. *Berberis aristata* DD.
5. *Carapichea ipecacuanha* (Brot.)
6. *Cordia dichotoma* G. Forst. (Ripe fruit)
7. *Cordia dichotoma* G. Forst. (Stem bark)
8. *Diospyros exscupta* Buch.-Ham.
9. *Diospyros malabarica* (Desr.) Kostel.
10. *Flacourtia indica* (Burm. f.) Merr.
11. *Lanata camara* Linn.
12. *Punica granatum* Linn.
13. *Vitis vinifera* Linn.

CONFERENCE, SEMINAR, WORKSHOP, SYMPOSIUM AND WEBINARS

- Poster on “Determination of stability on basis of Anthocyanins content in Kokum juice” presented for the final round of presentations in International Conference on Interface of Chemistry-Biology in Biomedical Research, at Bits-Pilani. (2008)
- Poster on “Isolation of phospholipase A₂ inhibitor from *Aristolochia indica*” presented for the final round of presentations in International Symposium of “Nature inspire initiatives in chemical trends” attended at ICT-Hyderabad on 2nd to 5th March 2014
- Volunteered for Ayurvedic Drug manufacturers association (ADMA) symposium held on 20th April 2012.
- Participated in AICTE sponsored seminar on “Challenges in Development of Generic and Biosimilars” organized by Prin. K. M. Kundnani College of Pharmacy, Mumbai on 4th and 5th Oct 2019.

AWARDS AND ACHIEVEMENTS

- Invited as Resource person at RUSA sponsored 2 day lecture series on “Connecting Plant and People” held at G. N. Khalsa College of Science, Department of Botany on held on July 2022
- Invited as Resource person at AICTE Sponsored one week online short-term training program on “Advances in Pharmaceutical Research: A Journey from academics to industry” held at Government College of Pharmacy, Aurangabad in June 2021.
- Invited as Resource person at NATUCARE INDIA on “Development of Analytical Protocols for Herbal Formulations” held on April 2020.
- Invited as Resource person at NATUCARE INDIA on “Fundamentals of Microscopy an Histochemical Analysis for Standardization of Crude Drugs” held on May 2020.
- RGNFD-UGC fellowship for Doctoral program 2013 – 2015
- ICMR fellowship for government funded project 2011 – 2013
- Masters fellowship, University Grant Commission 2006 – 2008

TRAINING PROGRAMME

- Participated in workshop on “E-content development” organized by Dr. L. H. Hiranandani College of Pharmacy, Ulhasnagar on 11th and 12th March 2020.

- Participated in online-workshop on “How to Conduct the Student Induction Program” organized by AICTE, Delhi on 20th Sep 2021.
- Successfully completed 8 AICTE Swayam Modules of 8 weeks each conducted by NITTT.

FACULTY DEVELOPMENT PROGRAMME

- Participated in AICTE sponsored QIP on “Emerging Concept in Phytopharmaceutics” organized by Puna College of Pharmacy, Pune on 4th to 16th Feb 2019.
- Successfully completed 8 weeks MOOC course on “Accreditation and Outcome Based Learning” conducted by NPTEL (Swayam) from Aug 2019 to Oct 2019.
- Participated in AICTE sponsored ATAL-FDP on “Drug Engineering” organized by Bombay College of Pharmacy, Mumbai on 21st to 25th Sep 2020.
- Participated in FDP on “Incubating Universal Human Values in Technical Education” organized by AICTE, Delhi on 16th to 20th Aug 2021.
- Participated in AICTE sponsored ATAL-FDP on “Emerging Trends in Drug Engineering” organized by Prin. K. M. Kundnani College of Pharmacy, Mumbai on 30th Aug to 3rd Sep 2021.

PROFESSIONAL MEMBERSHIP

- Life member of Association of Pharmaceutical Teachers of India
- Registered Pharmacist with Maharashtra State Council

ACADEMIC RESPONSIBILITIES

- Assisted Principal in compiling data for NBA and NAAC accreditation of college in 2020.
- Course coordinator of online course – ‘Data Integrity Foundation Course’ at Prin. K. M. Kundnani College of Pharmacy (2021-22).
- Coordinator for a guest lecture on Career options for pharma graduates since 2017 till 2023. Conducted at least 8 seminar per year.
- Assisting in compiling & uploading data for AICTE compliance, PCI & DTE extension of approvals.
- Assisted Principal in Admission process for F. Y. B. Pharm, Direct Second Year B Phar and M. Pharm admissions.
- Member of IQAC, NBA & Anti-ragging committee. (2017 onwards)
- Member of Institute Research Advisory Committee and Ph. D. Co-ordinator. (2018-2023)
- In-charge of a Fee Regulation Authority Application process for revision of M. Pharm. Fees since 2018.

OUTREACH ACTIVITY

- Tree Plantation Activity under the “SWACHHATA Action Plan”
- Seed bank generation activity under the “SWACHHATA Action Plan”
- Industrial visits at Abhyankar Ayurvedics, Varhad Jambhulpada and Dr, Palep’s Research Foundation, Ambernath.
- Nature Flora Visit to Kaas Plateau.
- Online course on “Efficient use of computer in college functioning” for the staff.
- In-house vaccination camp for students under Mission Yuva Swasthya
