



Faculty Profile

Dr. Archana A. Naik

M.Pharm., PhD

Designation: Associate Professor

Professional Experience:

Academic **15 years**

Industry **1.5 years**

Professional affiliations

Registered pharmacist, Pharmacy Council of India.

Member of Association of Pharmaceutical Teachers of India

Achievements

- **Third Best Poster Award** for the poster entitled "Crocin from *Nyctanthes arbor-tristis* (Oleaceae): Enhancement of stability and Effect on Collagen type 1 and Elastin gene" at XXII International Conference "Phytopharm 2018" held at Horgen, Switzerland.
- **First prize at District level Avishkar competition** for the poster entitled "A Novel and Economical topical herbal formulation of carotenoids to combat ageing" at 12th State level Avishkar Research Convention, Mumbai University 2017
- **Co-investigator for research project** entitled "Evaluation of Medicinal and Cosmetic utilities of *Nyctanthes arbor-tristis* -A substitute for saffron" sanctioned by National Medicinal Plant Board (NMPB), Dept. of Ayush, Government of India 2010-2013
- **Certificate of Achievement for submission of 8 ANDAs in year 2008** by Watson Pharma Pvt Ltd.

Projects

1. "Evaluation of Medicinal and Cosmetic utilities of *Nyctanthes arbor-tristis* -A substitute for saffron" sanctioned by National Medicinal Plant Board (NMPB), Dept. of Ayush, Government of India.
2. Studies on utility profiles of some phytoconstituents as cosmeceuticals.
3. "Studies on utility profiles of Carotenoid as Cosmeceutical and enhancement of stability through preparation of phytosomes"
4. Development and validation of bioanalytical method for estimation of phytoconstituents in biological matrix and its application in Pharmacokinetic studies.
5. Development and Validation of an analytical method for drug in biological fluid and other matrix.
6. Preparation and evaluation of novel drug formulation containing antifungal agent
7. Phytochemical investigation and standardization of traditional medicines
8. Development & Validation of analytical method for Phytoconstituents
9. Development and evaluation of herbal cosmetic formulation
10. Analytical method development and Validation of active pharmaceutical ingredients and its application by HPLC method



Faculty Profile

Core competency area	Analytical and bioanalytical method validation, bioavailability studies, standardization of herbal formulation Cosmeceuticals preparation and efficacy studies.
Students guided	Guided 13 M Pharm students (specialization - Quality Assurance) Guided 21 B Pharm students (Final year project work and Aavishkar research convention)
Research grant	<ul style="list-style-type: none">• Standardization of herbal formulations by HPTLC and evaluation of Pharmacological activity- University of Mumbai (A Y 2018-19)• Studies on utility profiles of Carotenoid as cosmeceutical and enhancement of stability through preparation of phytosomes.- University of Mumbai (AY 2014-15)• Phytochemical investigation of Volatile oil present in calyx of <i>Nyctanthes arbor-tristis</i> (Oleaceae)- University of Mumbai (AY 2011-12)• Evaluation of Medicinal and Cosmetic utilities of <i>Nyctanthes arbor-tristis</i> -A substitute for saffron” sanctioned Rs. 16.37 lakhs by National Medicinal Plant Board (NMPB), Dept. of Ayush, Government of India (ay 2010-2013)
Patents	1 Patent at examination stage
Research publications	<ol style="list-style-type: none">1. Formulation and Bioavailability Studies on Orodispersible Tablets Containing Standardized Extracts of Glycyrrhiza glabra, Curcuma longa and Piper nigrum; Pharmacological Research - Natural Products vol 2 ,20242. Evaluation of In Vitro and In Silico Anti-Alzheimer potential of ethanolic extract of <i>Nyctanthes arbortristis</i> flowers; Eur. Chem. Bull. 12(Special Issue 4), 1589- 1602; 20233. Simultaneous Estimation for Diosgenin, Charantin and Hydroxychalcone from Herbal Antidiabetic Formulation using Validated HPTLC Method; International Journal Of Pharmaceutical Quality Assurance volume 14 Issue 3, pages 612-617, July - September 20234. Formulation containing Phytosomes of Carotenoids from <i>Nyctanthes arbor-tristis</i> and <i>Tagetes patula</i> protect Dgalactose induced skin aging in mice. Clinical Complementary Medicine and Pharmacology Vol 3, Issue 1 1-12 2023 Elsevier5. Bioavailability and Pharmacokinetic parameters of Formulation containing Secoisolariciresinol Diglucoside (SDG) Polymer rich extract obtained from seeds of <i>Linum usitatissimum</i> L." Brazilian Journal of Pharmacognosy Springer Journals 1-8 January 20236. Pharmacokinetic Profile and Oral Bioavailability of Diosgenin, Charantin, And Hydroxychalcone From a Polyherbal Formulation Frontiers in Pharmacology; IF 4.4 Vol 12 Article; 629272 ; 1-12 29; April 2021 Frontiers Media S7. Optimization And Characterization Of Ph-Responsive Curcumin Loaded Niosomes For Targeted Drug Delivery In Breast Cancer; Latin American Journal of Pharmacy, 42 (3), 1432-1447, 20238. Development and validation of an analytical method for estimation

Faculty Profile

- of drugs; BioGecko, Vol 12 (Issue 02) pg no 3336-3351, 2023
9. Formulation Containing Phytosomes of Crocin Rich Extract from *Nyctanthes arbor-tristis* and Petroselinic Acid from *Coriandrum sativum* seeds Exhibits Sunscreen and Moisturizing Effects; Current Cosmetic Science vol 2,1-10, 2023
 10. Method development and validation of HPLC-UV Method for estimation of ornidazole in human plasma ; Eur. Chem. Bull. Vol 12(Special Issue 10), 2797 – 2809, 2023
 11. 'Evaluation of Gene Expression and In Vitro Enzyme Study for Antiaging Effect of Crocin and Lutein'; The Natural Products Journal, IF 1.2; Volume ; 10, Number 5595-604; October 2020; Bentham Science
 12. Development of stability indicating method for the Estimation of ornidazole in pharmaceutical formulations; European Journal of Molecular & Clinical Medicine Volume 07(Issue 11) pg 266-278, 2020.
 13. Orange colored tubular calyx of *Nyctanthes arbor-tristis* – A substitute to saffron; Journal of PharmaSciTech, 5(2) 102-104; 2016; TRINITY TRUST.
 14. Standardization, Optimization of Formulation and Invitro Evaluation of Anti-urolithiasis Activity of *Citrus medica* Extract ;Journal of Drug Design and Medicinal Chemistry Volume 8, Issue 334-40 September 2022; Science Publishing group
 15. Development and optimization of fluconazole loaded microsponges in transungual patch for onychomycosis; World Journal of Pharmacy And Pharmaceutical Sciences 2.3; Volume 11, Issue 9, 892-909; 2022 WJPPS,India
 16. Preliminary screening of diuretic activity of *Triumfetta rhomboidea* Jacq leaves extracts in rats Research Journal of Pharmaceutical, Biological and Chemical Sciences 0.1 1 (3) 469-473; 2010 RJPBCS, India

Presentations

1. Presented poster presentation entitled "Analytical method development for simultaneous estimation of herbal drugs and its application for standardization of extract" at 22nd International Congress of International Society for Ethnopharmacology (ISE) & 10th International Congress of the Society for Ethnopharmacology (SFE), February 24-26, 2023 Imphal, Manipur, India.
2. Presented poster presentation "Bioanalytical method development for simultaneous estimation of herbal drugs and its application for Pharmacokinetic studies" at 22nd International Congress of International Society for Ethnopharmacology (ISE) & 10th International Congress of the Society for Ethnopharmacology (SFE), February 24-26, 2023 Imphal, Manipur, India.
3. Poster presentation on 'Formulation and evaluation of herbal antiaging and sunscreen formulation", at 72nd Indian Pharmaceutical Congress, Nagpur on 20th to 22nd January 2023.,
4. Presented poster presentation entitled "Determination of

Faculty Profile

Bioavailability and Pharmacokinetic Parameters for Formulation Containing Lignan Rich Extract of *Linum usitatissimum*" at 9th International Congress of the Society for Ethnopharmacology 2022 April 22nd to 24th 2022(SFEC 2022)

5. Presented poster presentation entitled " "Citrus medica: standardization and its use as antiurolithiasis" at 8th International Congress of the Society for Ethnopharmacology-India (SFEC 2021) , 27th -29th August, 2021.
6. Presented poster presentation entitled " Parijat: Saffron of Common Man Preparation of stable cost-effective and bioactive formulation " at Women Scientists and Entrepreneurs Conclave- 6th India International Science Festival IISF 2020 organized by the Ministry of Science and Technology, Ministry of Earth Sciences & Vijnana Bharati (VIBHA) from 22nd to 25th December 2020 in New Delhi through virtual mode and hosted by the Council of Scientific and Industrial Research-National Institute of Science, Technology and Development Studies (NISTADS).
7. Presented poster presentation entitled "Bioanalytical method development for simultaneous estimation of herbal drugs" at 7th International Congress of the Society for Ethnopharmacology, India (SFEC 2020) held at Jamia Hamdard, New Delhi, India on February 15-17, 2020.
8. Presented **THREE** papers at XXII International Congress "**Phytopharm 2018**", held at Horgen, Switzerland , during June 25-27, 2018 entitled
9. Crocin from *Nyctanthes arbor-tristis (Oleaceae)*: Enhancement of stability and Effect on Collagen type 1 and Elastin gene.
10. Genetic level Evaluation of novel, topical herbal formulation: an economic substitute to formulation of saffron.
11. Lutein from *Tagetes patula*: Enhancement of stability and Effect on COL type I and elastin gene.
12. Presented oral as well as poster presentation for the paper entitled "A Novel and Economical topical herbal formulation of carotenoids to combat ageing " at 12th State level Avishkar Research Convention held at Rahuri KrushiVidyapeeth, Ahmednagar during 14th - 17th January 2018.
13. Presented poster presentation and secured first prize for the poster entitled "Crocin from *Nyctanthes arbor-tristis* an economic substitute to saffron and Lutein from *Tagetes patula* upregulate Col type-I and elastin gene to improve skin health" at the final round of 12th Avishkar Research convention 2017-18, held at Bhanuben Nanavati College of Pharmacy, Mumbai on 18th December 2017.
14. Represented Mumbai University by Presenting poster on "Standardization of Kantakari Kulp- An Ayurvedic Formulation" in Inter University Research Convention 'AVISHKAR 2012'
15. Presented a poster on paper entitled "validated stability indicating RP-

Faculty Profile

HPLC method for Cefdinir in bulk form” at international conference on drug discovery and nanotechnology, Nanded.2008.

16. Presented a poster on paper entitled “Development and validation of RP-HPLC method for estimation of Cefdinir and its application to marketed formulation.” At 59th I.P.C conference Varanasi. 2007.

Seminars / workshops

QIP and FDP

1. Participated & completed successfully Three Day Faculty Development Programme on “Train the Trainer” organized by Association of Pharmaceutical Teachers Of India, Women’s forum Maharashtra State branch in association with SCES’s Indira College of Pharmacy, Pune from 2nd May to 4th May 2023.
2. Participated & completed successfully 5 days AICTE Training And Learning (ATAL) Academy online Elementary FDP on " Drug Disposition: An Important Factor in Drug Engineering" from 2021-06-01 to 2021-06-05 at Bombay College of Pharmacy (Autonomous-Affiliated to University of Mumbai).
3. Participated and completed One Week Online Faculty Development Programme on "Climbing the Ladder of Education System Through Innovation & E- Learning Tools " from 04th may to 9th may 2020 organized by SVIT Nashik.
4. Participated and completed One Week Online Faculty Development Programme on “Pharmaceutical Product Development: Challenges and Opportunities” from 15th June,2020 to 19th June 2020 organized by Dr. L. H. Hiranandani College of Pharmacy, Ulhasnagar and Konkan Gyanpeeth Rahul Dharkar College of Pharmacy and Research Institute, Karjat In collaboration with Indian Pharmaceutical Association (IPA) and Association of Pharmaceutical Teachers of India (APTI).
5. Attended two weeks AICTE sponsored Quality Improvement Programme entitled “Advances in analytical techniques” Organized by Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Pune in January 2011.

Seminar and workshops

1. Attended webinar on Herbal Cosmetics” organized by SSM college of Pharmacy, Erode, Tamilnadu on 13th July 2020
2. Attended 3 days online webinar “ bridging the gap between Academic research and industry commercialized outcomes” organised by Bombay College of Pharmacy, Mumbai from 18th -20th june 2020
3. Attended 3 days webinar on product development in the era of QbD and ICH 8 A primer for academia 3rd june to 5th june organized by VES college of Pharmacy
4. Participated and completed 3 days national level online workshop on “ Understanding the process of NAAC Accreditation –An expert Opinion” on 20th -22nd may 2020 organized by VES college of Pharmacy.

Faculty Profile

5. Attended 3 days webinar on Integrity and ethical considerations in the conduct of research organized by Charusat University from 23rd may to 25th may 2020.
6. Attended a webinar organized by PCI on "Understanding Practice School & its concept in UG Pharmacy Education" on 23rd May, 2020.
7. Attended an online workshop on Academic book writing and related topics organized by AICTE - Springer nature on 18th May 2020.
8. Attended webinar on Patents and Intellectual property rights organised by Ganpat University on 10th may 2020.
9. Attended National Webinar on "AYUSH for COVID-19: Boosting Immunity With Home - Based Interventions" conducted on May 20, 2020 organized by Guru nanak College Mumbai under Aegis of RUSA and AYUSH.
10. Attended Webinar on Revolutionary Bench-top NMR , MS spectrometers and Flash Chromatography System on 5th may 2020 MET's Institute of Pharmacy Bhujbal Knowledge City Nashik in association with inkarp Instrument Pvt Ltd
11. Attended webinar "HERBAL START-UP : SCOPE & CHALLENGES" Conducted on 17th may 2020 by Sharadchandra Pawar College of Pharmacy, Pune
12. Attended 1 day workshop entitled " Novel Correlative techniques using NMR and Electron microscopy-JOEL Yokogushi" on 5th December 2019 organized by IIT bombay.
13. Attended 2 days Workshop on "Extraction and Isolation of Phytoconstituents" organized by Institute of Chemical Technology, Department of Pharmaceutical sciences and technology, Mumbai on 25th - 26th March 2017.
14. Attended one day seminar on "Let's Do NBA Accreditation" organized by Vivekanand Education society's College Of Pharmacy, Chembur on 16th February 2017.
15. One day UGC sponsored seminar on Recent Advances In Herbal Drug Technology on 'Recent Advances in Herbal drug Tchnology' at IITmumai, S.N.D.T University, Mumbai on 21st March 2012.
16. One day UGC sponsored seminar on Recent Advances In Herbal Drug Technology on 'Recent Advances in Herbal drug Tchnology' at C.U.Shah College of Pharmacy, S.N.D.T University, Mumbai on 21st March 2012.
17. Attended 59th I.P.C Conference from 20th -23rd December 2007 at Varanasi, 2007.
18. Attended 1 day Online workshop on Harness the Power of ChatGPT- Generative AI Tool for Teaching & Research in Pharmacy" on 5th August 2023 organized by Saraswathi Vidya Bhavan's College Of

Faculty Profile

Pharmacy, Dombivli

19. Attended 2 days national workshop on "Quality-by-Design and Hands on training on DOE" on 13th and 14th January 2023 organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli

20. Attended one day national level workshop Webinar cum workshop on "Role of molecular Docking and ADM in drug Discovery using sisa and stardrop" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 14th August 2021

21. Attended 2 days Workshop on "EXCEL to EXCEL – in statistics for Pharmaceutical Research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 27th - 28th November 2018.

22. Attended 1 day Workshop on "Avishkar Research Convention :2018-19" organized by Principal K.M. Kundnani College of Pharmacy, Mumbai on 7th September 2018.

23. Attended 1day Workshop on "Multimedia: A Vital tool in Innovative Teaching, Learning and Research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 11th December 2017.

24. Attended 2 days Workshop on "Extraction and Isolation of Phytoconstituents" organized by Institute of Chemical Technology, Department of Pharmaceutical sciences and technology, Mumbai on 25th - 26th March 2017.

25. Attended one day workshop cum seminar on "Advances in Viscosity Measurement –Problems and Solutions" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 29th august 2016.

26. Attended one day seminar on "Formulation, Development and Overview" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 21st august 2015.

27. Attended one day seminar on "New Vistas in Medicinal Chemistry Research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 27th February 2015.

28. CSIR Sponsored Two days National workshop on "Research Methodology: an approach towards systemic research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli. (Jan 2014)

29. CSIR Sponsored National Seminar on "Targeted Therapies in Cancer –Recent Advances" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli. (Jan 2013)

30. Two Days National Workshop on 'NMR and Co-relation Spectroscopy', organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 4th and 5th February 2011.

31.

Faculty Profile

Contribution as organizer for Technical events organized by Saraswathi Vidya Bhavan's College of Pharmacy

1. Organized 1 day online workshop on "Harness the Power of ChatGPT- Generative AI Tool for Teaching & Research in Pharmacy" on 5th August 2023.
2. Organized 2 days national workshop on "Quality-by-Design and Hands on training on DOE" on 13th and 14th January 2023
3. Organized one day national level workshop Webinar cum workshop on "Role of molecular Docking and ADM in drug Discovery using sisa and stardrop" on 14th August 2021
4. Organized Two days Lecture series for Final Year B.Pharm course on "Effective Learning in Pharmaceutical Chemistry" on 20th – 21st December 2019.
5. Organized 2 days Workshop on "EXCEL to EXCEL – in statistics for Pharmaceutical Research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 27th - 28th November 2018.
6. Organized one day seminar on "New Vistas in Medicinal Chemistry Research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 27th February 2015.
7. Organized CSIR Sponsored Two days National workshop on "Research Methodology: an approach towards systemic research" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli. (Jan 2014)
8. Organized CSIR Sponsored National Seminar on "Targeted Therapies in Cancer –Recent Advances" organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli. (Jan 2013)
9. Organized Two Days National Workshop on 'NMR and Co-relation Spectroscopy', organized by Saraswathi Vidya Bhavan's College Of Pharmacy, Dombivli on 4th and 5th February 2011.
 - Centralized Instrument room- Incharge
 - NBA /NAAC core committee of institute-Member
 - Department of Pharmaceutical Chemistry-HOD
 - College development council-Member
 - Avishkar Research Convention - college Coordinator
 - Internal Animal Ethics Committee -Member
 - Governing body- Member
 - Office administration
 - Institution's Innovation cell- Member
 - Intellectual property cell- Member
 - Co-curricular activities – Incharge

**Institutional &
administrative
responsibilities**