



GNC_P's

Research Booklet 2021-2022



Compiled by

PUBLICATION COMMITTEE

The Sikh Education Society's

GURUNANAK COLLEGE OF PHARMACY

Near Dixit Nagar, Behind C. P. Foundary,
Nari, Kamptee Road, Nagpur - 440026 (M.S)

E- mail: gncp2004@yahoo.com

www.gncp.edu.in

Printed By-
Principal, GNC_P, Nagpur

Designed By-
Dr. Subhashi R, Yende

PUBLICATIONS

BOOK/BOOK CHAPTER

1. **Sumit K. Arora, Shobha Ubgade, Alok Ubgade.** Recent Techniques in Isolation of Nutraceuticals from Plants, in the book Nutraceutical delivery Systems, Edited by Pankaj Dangre and Debarshi kar Mahapatra, first edition 2022, Apple Academic Press. eBook ISBN 9781003189671
<https://www.appleacademicpress.com/nutraceutical-delivery-systems-promising-strategies-for-overcoming-delivery-challenges/9781774637166>
2. **Vaishali Kilor, Nidhi Sapkal, Shobha Ubgade, Abhay Ittadwar.** Microemulsions for Improvement in Bioavailability of Potential Nutraceuticals, in the book Nutraceutical delivery Systems, Edited by Pankaj Dangre and Debarshi Kar Mahapatra, first edition 2022, Apple Academic Press, eBook ISBN 9781003189671
<https://www.appleacademicpress.com/nutraceutical-delivery-systems-promising-strategies-for-overcoming-delivery-challenges/9781774637166>
3. Shagufta Khan, **Vaishali Kilor, Dilesh Singhavi, Kundan Patil.** Progress in nanotechnology-based targeted cancer treatment, in book, Photophysics and Nanophysics in Therapeutics, edited by Nilesh M. Mahajan, Avneet Saini, Nishikant A. Raut, Sanjay J. Dhoble, published by Elsevier, 1st Edition May 2022, ISBN 978-0-323-89839-3. <https://doi.org/10.1016/B978-0-323-89839-3.00007-5>
4. **Keshav S. Moharir, Vinita Kale, Mallesh Kurakula.** Nanotherapeutic systems for drug delivery to brain tumors In Book: Photophysics and Nanophysics in Therapeutics, pp 217-238. Elsevier, 1st Edition May 2022, ISBN 978-0-323-89839-3. <https://doi.org/10.1016/B978-0-323-89839-3.00002-6>
5. **Keshav S. Moharir, Vinita V. Kale, Abhay M. Ittadwar & Yashwant V. Pathak.** Introduction to Pharmaceuticals In Book: Handbook of Space Pharmaceuticals, pp 3-21. Springer Nature, 1st Edition May 2022.
https://doi.org/10.1007/978-3-030-05526-4_11
6. **Keshav S. Moharir.** Biomedical applications of electrospun chitosan nanofibers In Book: Chitosan in Biomedical Applications, Pages 75-110. Academic Press by Elsevier February 2022.
<https://www.elsevier.com/books/chitosan-in-biomedical-applications/hasnain/978-0-12-821058-1>
7. **Keshav Moharir, Vinita Kale, Abhay Ittadwar, Manash K. Paul.** Polymeric Nanoparticle-Based Drug-Gene Delivery for Lung Cancer In Book: Handbook of Lung Targeted Drug Delivery Systems, Pages 93-107 CRC Press, Taylor & Francis Group 2021. eBook ISBN9781003046547
<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003046547-14/polymeric-nanoparticle-based-drug%E2%80%93gene-delivery-lung-cancer-keshav-moharir-vinita-kale-abhay-ittadwar-manash-paul?context=ubx&refId=fad0d4c6-7610-4a7f-b8d3-f2262f2136bb>

RESEARCH/REVIEW ARTICLE

1. **Subhash R. Yende**, Radha Kapgate, **Sumit K. Arora**, Sapan K. Shah, **Keshav S. Moharir**, Ankit Mishra. Ethnomedicinal and pharmacological potential of marine macroalgae for CNS disorders: An overview. *Journal of Medicinal Herbs and Ethnomedicine*, 2022, 8: 1-6
<https://updatepublishing.com/journal/index.php/jmhe/article/view/7282/5982>
2. Ayushi Jumle, Jaruti Thawre, Humera Khan, Kajal Gajpure, Pratiksha Bansod, **Mitali Bodhankar**. Liquorice Anti acne Gel. *European Journal of Pharmaceutical and Medical Research*, 2022, 9(5), 362-366.
https://www.ejpmr.com/home/abstract_id/9668
3. Rutuja Tijare, Siddhi Wargantiwar, Steffi George, Deepali Shastri, Meenal Watkar, Davini Bobde, **Mitali Bodhankar**. Formulation of tinted lip gloss from lotus flower and date seed oil. *Magna Scientia Advanced Biology and Pharmacy*, 2022 06(02), 001-110.
<https://doi.org/10.30574/msabp.2022.6.2.0067>
4. **Tirupati M. Rasala**, Rajesh Mujariya, Shubham Kalbande, Prachi Pahade and **Abhay M. Ittadwar**. Quality by design (QBD): application of QBD in palletisation. *European Journal of Biomedical and Pharmaceutical Sciences*. 2022, 9 (3), 220-227.
https://www.ejbps.com/ejbps/abstract_id/8636
5. Mundhey, D., **Sapkal, N.**, & Daud, A. Fabrication of microemulsion loaded sublingual film for rapid absorption of fentanyl citrate in transient breakthrough pain. *International Journal of Applied Pharmaceutics*, 2021, 13(3), 233-238.
<https://doi.org/10.22159/ijap.2021v13i3.40744>
6. **Sapkal, N.**, Daud, A., Bonde, M., Gawande, M., & Gurav, N. Bioequivalence evaluation of orally disintegrating strips of rizatriptan in male volunteers under fasting conditions. *International Journal of Applied Pharmaceutics*, 2021, 13(5), 230-235.
<https://innovareacademics.in/journals/index.php/ijap/article/view/41602/25346>
7. Priya Dule, **Vaishali Kilor**, **Nidhi Sapkal**, Kumar Pratyush and Minal Bonde. Inkjet printing approaches in pharmaceuticals. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2021, 10 (9), 1834-1847.
https://www.wjpps.com/Wjpps_controller/abstract_id/15087
8. **Subhash R. Yende**, Sapan K. Shah, **Sumit K. Arora**, **Keshav S. Moharir**, **Govind K. Lohiya**. In silico prediction of phytoconstituents from *Ehretia laevis* targeting TNF- α in arthritis. *Digital Chinese Medicine* 2021, 4(3), 180-190.
<https://doi.org/10.1016/j.dcm.2021.09.003>
9. **Keshav S. Moharir**, **Sumit K. Arora**, **Subhash R. Yende**, **Govind K. Lohiya** and Sapan K. Shah. Challenges and Progress in Vaccine Development for COVID-19 Coronavirus (SARS-CoV-2): A Review. *The Open COVID Journal*, 2021, 1, 65-76.
[10.2174/2666958702101010065](https://doi.org/10.2174/2666958702101010065)
10. Malleesh Kurakula, Shashank Gorityala, **Keshav Moharir**. Recent trends in design and evaluation of chitosan-based colon targeted drug delivery systems: Update 2020. *Journal of Drug Delivery Science and Technology*, 2021, 64, 102579.
<https://doi.org/10.1016/j.jddst.2021.102579>

11. **Gulshan A. Gurunani**. Synthesis and Docking studies of Novel N-piperazinyl Fluoroquinolone analogues as antibacterial/antimycobacterial agents. Asian Journal of Medicine and Health Sciences, 2021, 4(1).
12. **Gulshan Gurunani**; Kapil Agrawal; **Sheelpriya Walde**; **Abhay Ittadwar**. Synthesis and investigation of antibacterial, antimycobacterial activity and cytotoxicity study of sparfloxacin derivatives. International Journal of Current Research and Review. 2021, 14(3).
<https://doi.org/10.31838/ijpr/2021.13.02.492>
13. **VipinChandra B. Pande**, Saket Singh Chandel, Vishal Soni. Pharmacognostic standardization of *Azadirachta Indica* leaves, *Tinospora Cordifolia* Stem, and *Oscimum Sanctum* leaves. Journal of the Maharaja Sayajirao University of Baroda. 56 (1); 2022; 56-61.
14. **Shobha Ubgade**, A Bapat, **V Kilor**. Effect of various stabilizers on the stability of lansoprazole nanosuspension prepared by high shear homogenization: Preliminary investigation. J Appl Pharm Sci, 2021;11(09):085-092
https://www.japsonline.com/admin/php/uploads/3405_pdf.pdf

PRESENTATIONS

1. **Dr. Mitali M. Bodhankar** presented research work in 5th Global conference on Pharmaceutics and Novel drug delivery systems held at Singapore.
2. Ms. Mrunali Shrikhande and **Dr. Mitali Bodhankar** presented poster at the 20th International e-symposium on Advancecs in Technology and business potential of new drug delivery systems organized by CRS from 24th to 26th February 2022.
3. Ms. Davini Bobade and Ms. Mrunali Shrikhande, **Dr. Mitali Bodhankar** presented poster at the 20th International e-symposium on Advancecs in Technology and business potential of new drug delivery systems organized by CRS from 24th to 26th February 2022.
4. **Mr. G. A. Gurunani** presented paper entitled Synthesis and Docking studies of Novel N-piperazinyl Fluoroquinolone analogues as antibacterial/antimycobacterial agents in 3rd International Conference of Pharmacy and Health Sciences 2021 (ICPHS 2021) held at Royal College of medicine Perak, University Kuala Lumpur on 2nd and 3rd August 2021.
5. **Mr. K. S. Moharir** presented paper entitled Extraction and evaluation of cellulose nanocrystals for drug delivery systems in 9th International Congress of The Society for Ethnopharmacology 2022, Held at JSS College of Pharmacy, Mysuru from 22nd to 24th April 2022.
6. **Mr. K. B. Bhelkar** presented paper entitled Synthesis and evaluation of hydrogel from natural polymer in 9th International Congress of The Society for Ethnopharmacology 2022, Held at JSS College of Pharmacy, Mysuru from 22nd to 24th April 2022.
7. Ms. Mrunal Deshmukh and **Dr. Govind Lohiya** presented a research work (poster) in 20th International e-Symposium Organized by CRS, Indian Local Chapter on topic

"Formulation and characterization of nanocurcumine based anti-rheumatoid formulation."

8. Mr. Anubhav Morghade and Dr. Govind Lohiya presented a research work (poster) in 20th International e-Symposium Organized by CRS, Indian Local Chapter on topic "Development and evaluation keratin based medicated patch for wound."
9. Ms. Ritika Singh, Dr. Govind Lohiya and Mr. Keshav Moharir presented a research work (poster) in 20th International e-Symposium Organized by CRS, Indian Local Chapter on topic "Formulation and evaluation of nanocellulose based topical formulation."

M. PHARM. RESEARCH GUIDANCE

Sr. No	Name of student	Topic	Name of guide
M. Pharm. (Pharmaceutics)			
1	ANJALI RAJKUMAR BANSOD	FORMULATION AND EVALUATION OF SKIN CARE PREPARATION CONTAINING EXTRACTS OF CURCUMA LONGA (RHIZOME), AND BERBERIS ARISTOTA (ROOT).	Dr. S. B. Waikar
2	MAYURI SUBHAS PALASMODE	FORMULATION & EVALUATION OF HERBAL SKIN CARE PREPARATION CONTAINING EXTRACTS OF TURMERIC RHIZOME AND BERBERIS ROOT WITH SHEA BUTTER AS EXCIPIENTS.	Dr. S. B. Waikar
3	SONI RAMPRASAD YADAV	EXTRACTION AND EVALUATION OF PLANT DERIVED SURFACTANTS FOR COSMETIC APPLICATION.	Dr. S. B. Waikar
4	ANUBHAV DNYANESHWAR MORGHADE	KERATIN WASTE BIOMASS: DEVELOPMENT AND EVALUATION OF KERATIN BASED FORMULATIONS FOR PHARMACEUTICAL OR COSMETIC APPLICATIONS.	Dr. G. K. Lohiya
5	MRUNAL TUSHAR DESHMUKH	FORMULATION AND EVALUATION OF CURCUMA AMADA ANTI- RHEUMATOID CONTENTS CONFIRMED BY IN – SILICO MOLECULAR DOCKING TECHNIQUE	Dr. G. K. Lohiya
6	NIKITA RADHESHAM NANDANWAR	DEVELOPMENT AND OPTIMIZATION OF MEDICINE PRINTING ON ORAL THIN FILMS	Dr. G. K. Lohiya
7	RITIKA RAKESH SINGH	EVALUATION OF MECHANOCHEMICAL TREATMENT ON FORMATION OF MICRO AND / OR NNO CELLULOSE FIBERS AND TO DESIGN ITS FILM FORMING COMPOSITE SYSTEM.	Dr. G. K. Lohiya
8	HIMANSHI WAMAN CHAUDHARI	EVALUATION OF MADHUCA LONGIFOLIA LEAVES EXTRACT FOR THE TREATMENT OF ATOPIC DERMATITIS	Dr. V. A. Kilor
9	SHRADDHA PRASHANT KHARCHE	IN VITRO-EX-VIVO STUDIES OF MADHUCA LONGIFOLIA LEAVES EXTRACT FOR TREATMENT OF PSORIASIS.	Dr. V. A. Kilor
10	VISHVAS KONDIBA BHADRE	STUDIES ON ANTIPSORIATIC ACTIVITY OF SAPINDUS MUKOROSI SEED OIL AND DEVELOPMENT OF TOPICAL FORMULATION.	Dr. V. A. Kilor
11	PRACHI PRAMOD PAHADE	FORMULATION AND EVALUATION OF OMEGA FATTY ACID CONTAINING NUTRACEUTICALS	Dr. A. M. Ittadwar

12	TEJASWINI SUDHAKARRAO KAWANPURE	FORMULATION DEVELOPMENT OF SPINACH SEED CONTAINING NUTRACEUTICALS.	Dr. A. M. Ittadwar
13	DAVINI KISHOR BOBADE	FORMULATION AND EVALUATION OF PROBIOTIC CONTAINING EMULGEL FOR THE TREATMENT OF ACNE VULGARIES.	Dr. M. M. Bodhankar
14	MRUNALI ASHOK SHRIKHANDE	DESIGN AND DEVELOPMENT OF NOVEL TOPICAL FORMULATION FOR SKIN HYPERPIGMENTATION.	Dr. M. M. Bodhankar
15	SHRADHA RAVINDRA MAHALLE	FORMULATION AND DEVELOPMENT OF EMULGEL FOR THE TREATMENT OF SKIN AILMENTS.	Dr. A. H. Deshpande
16	VEERENDRA UMESH DHOKE	FORMULATION AND EVALUATION OF MICROPARTICLES ARTEMISININ.	Dr. A. H. Deshpande
M. Pharm (Quality Assurance)			
1	AANCHAL DEVIDAS MARBATE	FORMULATION AND EVALUATION OF SUNSCREEN USING YASHAD BHASMA	Dr. S. R. Walde
2	MANISHA RAJENDRA SALMAKE	COMPARATIVE ASSESSMENT OF ANTIMICROBIAL POTENTIALS OF MEDICINAL PLANT EXTRACT AND THEIR DERIVED NANOPARTICLES WITH SOME STANDARD ANTIBIOTICS.	Dr. S. R. Walde
3	VAISHNAVI UMAKANT NIMBALKAR	STANDARDIZATION OF SOME POLYHERBAL CAPSULE FORMULATIONS USED IN ARTHRITIS INFLAMMATION.	Dr. S. R. Walde
4	VISHAKHA VIDYASAGAR OIMBE	DEVELOPMENT AND VALIDATION ANALYTICAL METHOD FOR THE ESTIMATION OF PIPERAQUINE PHOSPHATE IN BULK DRUG AND PHARMACEUTICAL FORMULATIONS.	Dr. S. R. Walde
5	VRUSHALI PRADEEP PATHAK	DEVELOPMENT AND EVALUATION OF NUTRACEUTICAL JELLIES FROM MORINGA OLEIFERA LAM EXTRACT.	Dr. S. R. Walde
6	ANAND SUNIL RAUT	DESIGN AND SYNTHESIS OF FLUORQUINOLONE DERIVATIVES AS ANTIBACTERIAL AGENTS.	Dr. S. R. Walde
7	KETAN RUPESH RAHANGDALE	COMPARATIVE STUDY OF MICROCRYSTALLINE CELLULOSE PREPARED FROM COTTON WASTE AND WOOD AS TABLET EXCIPIENTS.	Dr. S. R. Walde
8	ROSHAN TARACHAND RAMTEKE	DEVELOPMENT AND VALIDATION OF ANALYTICAL METHOD FOR ESTIMATION OF SITAGLIPTIN..	Dr. S. R. Walde
9	MEGHA DILIP KUMAR CHAUHAN	FORMULATION & EVALUATION OF AZILSARTAN MEDOXOMIL CO-CRYSTAL WITH DIFFERENT CO-FORMERS TO ENHANCE THE SOLUBILITY AND BIOAVAILABILITY.	Dr. S. P. Padmane
10	MUSKAN PRAKASH KACHHAWAH	FORMULATION AND EVALUATION OF POLYHERBAL FACE SERUM	Dr. S. P. Padmane
11	PRAJAKTA GULAB PATEKAR	DEVELOPMENT AND VALIDATION OF ANALYTICAL METHOD FOR THE ESTIMATION OF OZENOXACIN IN BULK DRUG AND PHARMACEUTICAL FORMULATION.	Dr. S. P. Padmane
12	PRIYANKA DEWARO PAWAR	DEVELOPMENT AND VALIDATION OF ANALYTICAL METHODS FOR THE ESTIMATION OF DOFETILIDE DRUG IN PHARMACEUTICAL DOSAGE FORM.	Dr. S. P. Padmane

13	SHARAYU RAJESH MALDHURE	DEVELOPMENT AND VALIDATION OF ANALYTICAL METHOD FOR THE ESTIMATION OF ANTI-DIABETIC DRUG IN PHARMACEUTICAL DOSAGE FORM.	Dr. S. P. Padmane
14	KAPIL RAJESH BAHALANI	SYNTHESIS OF N-PIPERAZINYL SUBSTITUTED FLUOROQUINOLONE DERIVATIVES AS ANTIBACTERIAL AGENTS.	Dr. S. P. Padmane
15	NIHAL KISHOR PUROHIT	FORMULATION AND EVALUATION OF SUSTAINED RELEASE MICROSPHERES OF ROSIN CONTAINING CAPTOPRIL	Dr. S. P. Padmane
M. Pharm (Pharmaceutical Chemistry)			
1	KALYANI KAILASH KIRPAL	EVALUATION OF FLAVONOIDS IN THE AERIAL PARTS OF FAGONIA ARABICA.	Dr. S. B. Waikar
2	POOJA SANJAYKUMAR RATHI	EVALUATION OF FLAVONOIDS IN TEPHROSIA PURPUREA	Dr. S. B. Waikar
3	SWAPNALI ARUN SUTAR	DETERMINATIONS OF CURCUMINOIDS AND FLAVONOIDS IN SOME MARKETED HERBAL PREPARATION.	Dr. S. B. Waikar
4	PIYUSH ANILSINGH SAWNER	EVALUATION OF FLAVONOIDS IN THE LEAVES OF ARGYREIA SPECIOSA.	Dr. S. B. Waikar
5	ASHWINI BHASHKAR DOMALE	CHARACTERIZATION OF IONIC LIQUID SALTS OF ACTIVE PHARMACEUTICAL INGREDIENT USING COMPUTATIONAL MODELS FOR DETERMINING ADMET.	Dr. N. P. Sapkal
6	KANCHAN KASHINATH ATTARGADE	IN SILICO EVALUATION OF HESPERIDIN DERIVATIVES AS VASOPROTECTIVE AGENTS.	Dr. N. P. Sapkal
7	PALLAVI RAMESH RUSHIYA	VIRTUAL SCREENING OF POTENTIAL PHYTOCHEMICALS AS THERAPEUTIC LEADS AGAINST INFLAMMATORY DISORDER	Dr. S. K. Arora
8	KALPANA CHARANDAS TIRPUDE	MOLECULAR DOCKING STUDIES OF PHYTOCHEMICALS OF NEOLAMARCKIA CADAMBA AGAINST SARS-COV-2.	Dr. S. K. Arora
9	DARSHANA SUDHAKAR PANDE	IN SILICO MOLECULAR DOCKING ANALYSIS OF POTENTIAL ANTI-ALZHEIMER PHYTOCHEMICALS PRESENT IN SARGASSUM ILICIFOLIUM.	Dr. S. R. Yende
10	MADHURI MITTHUJI RAMTEKE	IN SILICO AND IN VIVO EVALUATION OF PHYTOCHEMICALS OF JASMINNUM GRANDIFOLIUM WITH RELEVANCE TO ORAL ULCER.	Dr. S. R. Yende

**PUBLICATION COMMITTEE
GURUNANAK COLLEGE OF PHARMACY,
NAGPUR**