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Research Booklet 2020-2021



Compiled by

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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

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Designed By-
Dr. Subhash R. Yende

PUBLICATIONS**BOOK/BOOK CHAPTER**

1. Mrs Shobha Ubgade, Dr. Sumit Arora and Dr. Shrikant Tilloo Book published entitled "Concise course in Pharmacognosy and Phytochemistry I" with S. Vikas and Company, (P V Books) having ISSN number 97815-43344-32-5 on 1st Jan 2021.
2. Vaibhav Shende, Debarshi Kar Mahapatra. A Closer View on Various Reported Therapeutically Active Formulations Containing Aloe vera (Aloe barbadensis), in book: Biologically Active Natural Products: Microbial Technologies and Phyto-Pharmaceuticals in Drug Development. Edited by Debarshi Kar Mahapatra, Swati Gokul Talele, Tatiana G. Volova, A. K. Haghi. 2020, Apple Academic Press. ISBN: 9781003057505
<https://doi.org/10.1201/9781003057505>
3. Munindra Ruwali, Keshav Moharir, Sanjiv Singh, Punita Aggarwal and Manash K. Paul. Updates in Pharmacogenetics of Non-Small Cell Lung Cancer, in book Pharmacogenetics, edited by Islam A. Khalil, 2021, IntechOpen, DOI: 10.5772/intechopen.97498.
<https://www.intechopen.com/chapters/76458>
4. Mojabir Hussen Ansari, Debarshi Kar Mahapatra. A Short Overview on Anti-Diabetic Natural Products: Reviewing the Herbotherapeutic Potentials, in Book Natural Products Pharmacology and Phytochemicals for Health Care Methods and Principles in Medicinal Chemistry Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021, ISBN: 9781003057932,
<https://doi.org/10.1201/9781003057932>
5. Sameer A. Hedao, Debarshi Kar Mahapatra. Exploring the Hidden Ethnobotanical Treasures for Treating or Managing Chronic Alcoholism. Book Natural Products Pharmacology and Phytochemicals for Health Care Methods and Principles in Medicinal Chemistry Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021,
<https://doi.org/10.1201/9781003057932>
6. Paras Kothari, Ankita Soni, Debarshi Kar Mahapatra. Deep Insights the Privileged Herbotherapeutic Inventory for Hemorrhoidal Treatment. Book Natural Products Pharmacology and Phytochemicals for Health Care Methods and Principles in Medicinal Chemistry Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021,
<https://doi.org/10.1201/9781003057932>
7. Ankita Soni, Paras Kothari, Debarshi Kar Mahapatra. Recent In-Depth Insights of Nature-Based Anti-Worm Therapeutic Medications: Emerging Herbal Anthelmintics. Book: Applied Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021.
<https://doi.org/10.1201/9781003054894>
8. Taranpreet Kaur Bamrah, Mojabir Hussen Ansari, Debarshi Kar Mahapatra. Perspectives of Nature-Oriented Pharmacotherapeutics for the Effectual Management of Hemorrhoidal Symptoms. Book: Applied Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021.
<https://doi.org/10.1201/9781003054894>
9. Mojabir Hussen Ansari, Vaibhav Shende, Debarshi Kar Mahapatra. Emerging Highlights on Natural Prodrug Molecules with Multifarious Therapeutic Perspectives. Book: Applied

Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021.
<https://doi.org/10.1201/9781003054894>

10. Vaibhav Shende, Sameer A. Hedao, Mojabir Hussien Ansari, Pooja Bhomle, Debarshi Kar Mahapatra. Re-Highlighting the Potential Natural Resources for Treating or Managing the Ailments of Gastrointestinal Tract Origin. Book: Applied Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021. <https://doi.org/10.1201/9781003054894>
11. By Shruti Dongare, Vaibhav Shende, Debarshi Kar Mahapatra. Reviewing the Available Herbal Resources for Treating Psoriasis: Safe and Alternative Way for Therapeutics. Book: Applied Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021.
<https://doi.org/10.1201/9781003054894>
12. Vaibhav Shende, Sameer Hedao, Debarshi Kar Mahapatra. Insights into the Recent Scientific Evidences of Natural Therapeutic Treasures as Diuretic Agents. Book: Applied Pharmaceutical Practice and Nutraceuticals, Natural Product Development Edited by Debarshi Kar Mahapatra, Cristóbal Noé Aguilar, A. K. Haghi. 2021. <https://doi.org/10.1201/9781003054894>

RESEARCH/REVIEW ARTICLE

1. Sumit K. Arora, Govind K. Lohiya, Keshav S. Moharir, Subhash R. Yende and Sapan K. Shah, "Identification of Potential Flavonoid Inhibitors of the SARS-CoV-2 Main Protease 6YNQ: A Molecular Docking Study" Digital Chinese Medicine (Elsevier). 2020, 3(4), 239-248.
<https://www.sciencedirect.com/science/article/pii/S2589377720300677>
2. Pradnya Gondane, Nidhi P. Sapkal, Nidhi Jaiswal. Synthesis and Evaluation of Taste-Masked Ionic Liquid Salts of Loratadine. International Journal of Pharmacy and Pharmaceutical Sciences. 2020, 12(11), 71-79.
<https://innovareacademics.in/journals/index.php/ijpps/article/view/38965>
3. Sumit K Arora, Maviya Hussain, Subhash R Yende, Vipinchandra B Pande, Keshav S Moharir, Abhay M Itadwar, *Bauhinia purpurea*: An Updated Pharmacological Profile. Journal of Ayurvedic and herbal Medicine. 2020, 6(2), 81-85.
http://www.ayurvedjournal.com/JAHM_202062_13.pdf
4. Sumit K. Arora, Prakash R. Itankar and Subhash R. Yende. Histological study, phytochemical screening and TLC studies of *Sesbania grandiflora*. International Research Journal of Biological Sciences. 2020, 9(3), 43-47.
<http://www.isca.in/IJBS/Archive/v9/i3/8.ISCA-IRJBS-2020-018.php>
5. Nidhi Sapkal, Gaurav Chhaya, Milan Satya, Dhara Shah. Clinical efficacy of different dosage forms containing vitamin D: design and study outcomes of a randomized, comparative clinical trial. International Journal of Clinical Trials. 2020, 7(3)
<http://dx.doi.org/10.18203/2349-3259.ijct20203104>
6. Priyanka Warambhe, Sheelpriya Walde, Suhas Padmane. Overview on over the counter drugs: Comparison between generic and branded drugs in India. European Journal of Pharmaceutical and Medical Research. 2020, 7(10), 230-235.
https://www.ejpmr.com/home/abstract_id/7328

7. Rashmi H. Nasare, Sheelpriya R. Walde. A Study of Quality Control Test & Evaluation Parameter for Ayurvedic Formulation in Liquid, Semi-Solid & Solid Dosage Forms. *International Journal of Innovative Science and Research Technology*. 2020, 5(1), 20-22
<https://www.ijisrt.com/assets/upload/files/IJISRT20JAN012.pdf>
8. Sumit K. Arora, Prakash R. Itankar “Polyphenol rich extract from *Sesbania grandiflora* (L.) Pers. bark reduces rheumatism by mediating the expression of NF kappa B in rats”. *Indian Journal of Experimental Biology*. 2021, 59, 44-53.
<http://nopr.niscair.res.in/handle/123456789/39>
9. Subhash R. Yende, Sumit K. Arora & Abhay M. Itadwar. Antioxidant and Cognitive Enhancing Activities of *Sargassum ilicifolium* and *Padina tetrastromatica* in Scopolamine Treated Mice. *Journal of Biologically Active Products from Nature* (Taylor and Francis), Vol. 2021, 11(1), 11-21.
<https://doi.org/10.1080/22311866.2020.1871071>
10. Sapan Shah, Dinesh Chaple, Sumit Arora, Subhash Yende, Keshav Moharir and Govind Lohiya, “Exploring the active constituents of *Oroxylum indicum* in intervention of novel coronavirus (COVID-19) based on molecular docking method”, *Network Modeling Analysis in Health Informatics and Bioinformatics* (Springer) 2021, 10(1), 1-12.
<https://doi.org/10.1007/s13721-020-00279-y>
11. Sumit K. Arora, Prashant R. Verma, Prakash R. Itankar, Satyendra K. Prasad, Kartik T. Nakhate, “Evaluation of pancreatic regeneration activity of *Tephrosia purpurea* leaves in rats with streptozotocin-induced diabetes” *Journal of Traditional and Complementary Medicine*, Vol. 2021, 11(5), 435-445.
[10.1016/j.jtcme.2021.03.001](https://doi.org/10.1016/j.jtcme.2021.03.001)
12. D.A. Mundhey, A.S. Daud, N.P. Sapkal, 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://innovareacademics.in/journals/index.php/ijap>
13. Sapan Shah, Dinesh Chaple, Sumit Arora, Subhash Yende, Chetan Mehta & Usha Nayak, “Prospecting for *Cressa cretica* to treat COVID-19 via in silico molecular docking models of the SARS-CoV-2”, *Journal of Biomolecular Structure and Dynamics*. 2021, 1-9
[10.1080/07391102.2021.1872419](https://doi.org/10.1080/07391102.2021.1872419)
14. Vipinchandra B. Pande, Saket Singh Chandel and Vishal Soni. Synergistic and Safe antidiabetic effect of Polyherbal Formulation: Comprehensive Overview; *International Journal of life science and Pharma Research*. 2021, 11(2), 51-57.
<http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.2.P51-57>
15. Kajal Kesare, Urja Tawri, Manali Barai, Gaurav Parmal, Kaustubh Joshi, Mitali Bodhankar, “Use of rice water (*Oryza sativa*) & Hibiscus (*Hibiscus Rosa sinensis*) for hair nutrition and hair growth”, *Journal of Emerging Technologies and Innovative Research (JETIR)*, 2021, 6 (6), 181-187. <https://www.jetir.org/view?paper=JETIR2106426>
16. Kapil Dholwani, Lakshya Udasi, Mahesh Pimpalkar, Nikita Kurhade, Zahara Khan Sohel Khan, Mitali Bodhankar “Uses of onion (*Allium cepa* L.) & Aloe vera (*Aloe barbadensis* Miller) post hair dye treatment, *Journal of Emerging Technologies and Innovative Research JETIR*. 2021, 8 (6), 275-288.

<https://www.jetir.org/view?paper=JETIR2106175>

17. Gulshan Gurunani, Kapil Agrawal, Sheelpriya Walde and Abhay Itadwar. Synthesis and investigation of antibacterial, antimycobacterial and cytotoxicity study of sparfloxacin derivatives. International journal of Pharmaceutical Research, 2021, 13(2), 3944-3951. <https://doi.org/10.31838/ijpr/2021.13.02.492>
18. Rashmi Nasare, Sheelpriya Walde, Suhas Padmane. A Review of *Murraya koenigii* (Curry Tree) which act as a Multiskilled Medicinal Plant with Various Medicinal Properties. Research & Reviews: Journal of Medical Science and Technology. 2021,10(1). <http://medicaljournals.stmjournals.in/index.php/RRJoMST/article/view/2485>
19. Chandrashekhar Badwaik, Suhas Padmane, Sheelpriya Walde, Sharad Manapure. Natural Products in Anti-cancer therapy, International Journal of Advances in Engineering and Management (IJAEM), 2021, 3(4), 605-607 [10.35629/5252-0304605607](https://doi.org/10.35629/5252-0304605607)
20. Adiba Khan, Sudipa Bose, Urja Chopkar, Pritam Wath, Ahtesham Khan, Mitali Bodhankar "Cellulose microcrystalline beads as an Exfoliating agent", International Journal of Pharmaceutical research and Applications (IJPA), 2021, 6(3),1228-1235. [10.35629/7781-060312281235](https://doi.org/10.35629/7781-060312281235)
21. Dipti Masram, Pratiksha Bramhe, Shivum Bhelau, Roshni Bhalekar, Bindu Jacob, Mitali Bodhankar, "E marketing in Pharmaceutical sector" International Journal of Pharmaceutical Research and Applications (IJPA), 2021, 6(3), 1203-1214. [10.35629/7781-060312031214](https://doi.org/10.35629/7781-060312031214)
22. Kanchan Kuralkar, Divya Atram, Harshali Chonde, Kalyani Thakre, Pratiksha Deulkar, Mitali Bodhankar, "Use of D- limonene as an alternative to Acetone in Nail polish remover", International Journal of Pharmaceutical Research and Applications (IJPA), 2021, 6(3), 1096-1108. [10.35629/7781-060310961108](https://doi.org/10.35629/7781-060310961108)
23. Renuka Gaikwad, Prajakta Harode, Pratiksha Bhajikhaye, Yogita Wankhede, Yash Dube, Mitali Bodhankar, "SLS & paraben free herbal hair cleansers", World Journal of Pharmaceutical Research (WJPR), 2021, 10 (9). [10.20959/wjpr20219-20952](https://doi.org/10.20959/wjpr20219-20952)
24. Sumbul Khan, Sans Parveen Moin Shaikh, Shrutika Bawankar, Gaurav Jaiswal, Gaurav Sharma and Mitali Bodhankar, "Dried serum powder and sheet mask for anti-aging purposes", GSC Biological & Pharmaceutical Sciences, 2021, 15(03), 218-224. <https://doi.org/10.30574/gscbps.2021.15.3.0168>
25. Pallavi K. Urade, Mitali M. Bodhankar, "Solid Lipid Nanoparticle: A Novel Lipid based system of Coenzyme Q10 for skin Enrichment", Journal of Pharmaceutical Advanced Research, 2021, 4(3), 1162-1172. https://www.jpardonline.com/current_issue35.php

PATENT

- Dr. M. M. Bodhankar granted patent on date 02/12/2020 on topic A novel controlled release ophthalmic formulation with a unique combination of drug using in situ polymeric gel. Patent number- 352862, application no.-3115/MUM/2014 dated 30/09/2014.

PRESENTATIONS

1. V. B. Pande Presented E-poster on the topic entitled STZ- As Induction Model for Diabetes Mellitus in E-International conference on DNA nanostructure based Vectors for Drug Delivery: Opportunities and Challenges, on 19th September 2020 sponsored by AICTE, new Delhi, Organised by Adina Institute of Pharmaceutical Sciences, Sagar (M.P.).
- 2.
3. V. B. Pande presented Poster on the topic entitled Antidiabetic polyherbal ingredient Azadirachta indica: A Short Review at Liyang 2020, International Conference on Unlocking challenges, Innovations and Global opportunities in Research Amidst COVID- 19 Pandemics Organised by Shri Rawatpura Sarkar University Raipur Chhatisgarh, India.

M. PHARM. RESEARCH GUIDANCE

Sr. No	Name of student	Topic	Name of guide
M. Pharm. (Pharmaceutics)			
1	ESHA S. JAIN	Immune Protective Gummies as Neutraceutical for Diabetics: New Formulation and Its Regulatory Assessment for Marketing	Dr. V. V. Kale
2	HASAN Y. HUSSAIN	New Teeth Protecting Formulation and its Marketing Plan	Dr. V. V. Kale
3	YOGESHWAR R. RODGE	Formulation of Wound Healing Dusting Powder of Oleoresin and its Marketing Plan	Dr. V. V. Kale
4	LABHESH S. MEN	Water Dispersible Herbal Liquisolid Gargle: Formulation & its Product Lifecycle Management	Dr. V. V. Kale
5	BHAKTI R. KADU	2D Printing Using Ketorolac Loaded Oral Thin Film	Dr. V. A. Kilor
6	FARHEEN BANO ABDUL HALEEM	Studies On Drug Crystallization Inhibition Potential of Polymers in Oral Thin Films	Dr. V. A. Kilor
7	SUHASINI S. CHAURASIA	Curcumin Loaded Nanosuspension : in Vitro, in Vivo Evaluation for its Oral Bioavailability Enhancement	Dr. V. A. Kilor
8	PRACHI U. SHAMBHARKAR	Studies on Antipsoriatic activity of Madhuca longifolia leaves extract and Development of its	Dr. V. A. Kilor

		topical formulation	
9	ABHILASHA A. ROKADE	Formulation & Development of Dosage Form containing <i>Curcuma Amada</i> for the treatment of Rheumatoid Arthritic Patients	Dr. A. M. Ittadwar
10	VILESH G. JADHAV	Formulation Optimization of Neutraceuticals into pellets using QBD approach	Dr. A. M. Ittadwar
11	DARSHAN MENDHE	Formulation & Evaluation of Microparticles	Dr. A. H. Deshpande
12	TRUSHNA JAMGADE	Formulation & Evaluation of Emulgel for the treatment of Acen Vulgaries to Determine Factor Affecting it	Dr. A. H. Deshpande
M. Pharm (Quality Assurance)			
1	RISHIKESH SANJAY KHAIRKAR	Development & Validation of Analytical Methods for the Estimation of Bilastine in Bulk Drug and Pharmaceutical Dosage Form	Dr. S. R. Walde
2	ABHILASHA CHANDRIKA YADAV	Development & Validation of Analytical Methods for the Estimation of Antidiabetic Drug in Pharmaceutical Dosage Form	Dr. S. R. Walde
3	PURVA SARODE	Anti- Inflammatory Activity of Topical Herbal Formulation & Its Evaluation.	Dr. S. R. Walde
4	RANJANA RAJU NIKHARE	Development & Validation of Analytical Methods for the Estimation of Evogliptin in Pharmaceutical Dosage Form	Dr. S. R. Walde
5	MONA B. SALWATKAR	Evaluation of Isolation Constituent of Bioactive Extract of <i>Ipomoea Reniformis</i> Chois for its Anticancer activity	Dr. S. R. Walde
6	PREETI C. RATHOUR	Phytochemical & Pharmacological Evaluation of <i>Momordica Dioica</i> for Anticancer Activity	Dr. S. P. Padmane
7	RASHMI NASARE	Formulation & Evaluation of Curry Leaves (<i>Murraya Koenigii</i>) Extract Suspension for the Treatment of Anti-ulcer and Gastrointestinal Diseases	Dr. S. P. Padmane
8	SUPRIYA BHAGAT	Formulation & Evaluation of Orodispersible Multivitamin Tablets	Dr. S. P. Padmane

9	CHANDRASHEKH AR B. BADWAIK	Formulation & Evaluation of New Polyherbal Toothpaste for Oral Care and its Comparison with Marketed Preparation	Dr. S. P. Padmane
10	MANISHA RAMESH CHAVHAN	Formulation & Evaluation of Gel Forming Occlusive Film for Topical & Transdermal Drug Delivery System	Dr. S. P. Padmane
M. Pharm (Pharmaceutical Chemistry)			
1	CHARUSHEELA S. GIRI	Synthesis and Biological Evaluation of Novel Fluoroquinolone Derivative as Antibacterial and Antitubercular Agent	Dr. A. M. Ittadwar
2	KALYANI V. BHANDARKAR	Phytochemical Analysis and Standardization of Flavonoid Rich Fraction of Aerial Parts Of <i>Fagonia Arabica</i>	Dr. A. M. Ittadwar
3	KAVITA M. KHEDADE	Phytochemical Investigation and Anti-Mouth Ulcer Activity of <i>Jasminum Grandiflorum</i>	Dr. A. M. Ittadwar
4	BHAWNA SAKHARKAR	Phytochemical Screening And Standardization of Flavonoid Rich Fraction of Leaves of <i>Argyreia Speciosa</i>	Dr. S.B. Waikar
5	ZAVERIYA SHEIKH	Preliminary Phytochemical Screening and Standardization of Flavonoid Rich Fraction of <i>Tricodesma Indicum</i>	Dr. S.B. Waikar
6	GUNJAN G. KEWALRAMANI	To Isolate and Identify the Active Constituents of Plant <i>Sapindus Mukorossi</i> for Psoriasis and Related Skin Conditions	Dr. N.P.Sapkal
7	KARISHMA S. ASNANI	Synthesis and characterization of ionic liquid salts of curcumin	Dr. N.P.Sapkal

*Dr. V. V. Kale, Mrs. M. K. Bhurchndi, Mr. K. B.
Bhelkar, Dr. S. R. Yende*

PUBLICATION COMMITTEE
GURUNANAK COLLEGE OF PHARMACY,
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