

Research Publication

2018-2023

1.	Studies on antioxidant potential and total phenolic contents of dried powder and pulp of raw and ripe <i>Carica papaya</i> fruit	Bhardwaj Madhvi, Mahajan Babita, Kumar Ankush, Parcha Versha	Biomedicine	2023
2.	Artificial intelligence: a virtual chemist for natural product drug discovery	Shefali Arora, Sukanya Chettri, Versha Percha, Deepak Kumar & Mamta Latwal	Journal of Biomolecular Structure and Dynamics	2023
3.	Ashwagandha: A Flagship Herb of Ayurveda from Past to Present Nano Era	Shefali Arora, Krishna Samanta, Sukanya Chettri, Devendra Rawat, Versha Percha, Deepak Kumar	International Journal of Pharmaceutica l Investigation	2023
4.	Phytochemical Investigation and Evaluation of Antioxidant and Antimicrobial Potential of <i>Ardisia solanacea</i> Leaf Extract	Kanwal Jeet, Versha parcha, Sas Bswas and Sukanya Chettri	International Journal for Research Trends and Innovation	2022
5.	Overview: Insights on the Phytochemical, Pharmacological, and Biological Aspects of <i>Acorus calamus</i> and <i>Artemisia roxburghiana</i> : Wild Aromatic Plant Species of Himalayan Region of Uttarakhand	Versha Parcha, Sukanya Chhetri, Deepak Kumar and Rajendra Rana	GIS Science Journal	2022

6.	Synthesis and Antihistaminic Potential of Some Novel Substituted Dinitrophenothiazine Derivatives	Dheeraj Bisht, Anita Singh, Ashok Sharma, Versha Parcha	Journal of Reports in Pharmaceutical Sciences	2022
7.	Unravelling the therapeutic potential of orchid plant against cancer	Monu Kumar Shukla, Monika, Ashima Thakur, Rachna Verma, H. Lalhlenmawia, Sanjib Bhattacharyya, Dheeraj Bisht, Anita Singh, Versha Parcha, Deepak Kumar	South African Journal of Botany	2022
8.	Development of biochar from crofton weed & relationship between biochar properties and its applicability as a heavy metal removal activity	Versha Parcha, Pankaj Bhandari and Amita Sati	Universities' Journal of Phyto-Chemistry and Ayurvedic Heights	2022
9.	Antioxidant Potential of different extracts of Xanthium strumarium leaves	Deepak Kumar, Ashwani Sanghi, Shefali Arora, Shobhit Vidyarthi	Research Journal of Pharmacy and Technology	2022
10.	A Clinical Approach as Multifarious Natural Remedy With Absolute Immunity	Shefali Arora Mahak Gusain Ravi Gunupuru Rohit Kaushik Pushpendu Sinha Deepak Kumar	European Journal of Molecular & Clinical Medicine	2021
11.	Greener Approach to Metallic Nanoparticles: A Review	S. Arora, M. Latwal, K. D. Bahukhandi, D. Kumar, T. Vemulapalli, S. Egutoori and N. A. Siddiqui	Nature Environment and Pollution Technology	2021

12.	Effect of methanol extract and its fractions of leaves of <i>Ougeinia oojeinensis</i> on different biological activities	Deepak Kumar, Ashwani Sanghi, Shefali Arora, Abdullah, Mohd. Danish and Aditya Swarup	Wutan Huatan Jisuan Jishu	2021
13.	Isolation and identification of an antioxidant constituent from <i>Satyrion nepalense</i> (Himalayan Orchid)	Monika Kawra, Sarla Saklani and Versha Parcha	Research Journal of Chemistry and Environment	2021
14.	Evaluation of anti-microbial potential of structurally modified derivatives of lead compound berberine isolated from roots of <i>Berberis aristata</i>	Versha Parcha, Diveya J. Singh, Deepak Kumar and Jaswinder K. Saini	Indian Drugs	2021
15.	Antibacterial activity and phytochemical characterisation of <i>Saussurea gossypiphora</i> D. Don.	Abhay Prakash Mishra, Sarla Saklani, Versha Parcha, Manisha Nigam & Henrique D. M. Coutinho	Archives of Microbiology	2021
16.	Antidiabetic and Antihypertensive Properties of Chymotrypsin Treated Cow Milk Casein	Santosh Kumar, Suman Kumari, Vipin Kumar and Deepak Kumar	International Journal of Current Microbiology and Applied Sciences	2020
17.	Evaluation of anthelmintic activity of bioactive peptides derived from enzyme treated goat milk Casein	Santosh Kumar, Vipin Kumar, Deepak Kumar, Ashwani Sanghi and Farhat Jan	Journal of Entomology and Zoology Studies	2020
18.	Study on Phytoconstituents and Antimicrobial Potential of <i>Sapindus mukorossi</i> Fruit Extract	Versha Parcha, Amita Sati, Shivani Dyani	Universities' Journal of Phytochemistry and Ayurvedic	2020

			Heights	
19.	Tailoring of Colon Targeting with Sodium Alginate-Assam Bora Rice Starch Based Multi Particulate System Containing Naproxen	Manoj Kumar Sarangi, M.E. Bhanoji Rao, Versha Parcha, Aadesh Upadhyay	Starch	2020
20.	Smart polymers for colon targeted drug delivery systems: a Review	Manoj Kumar Sarangi, M. E. Bhanoji Rao & Versha Parcha	International Journal Of Polymeric Material And Polymeric Biomaterials	2020
21.	Preliminary Photochemical screening and Antioxidant activity of five medicinal plants of Garhwal Himalayas: a comparative study	Monika Kawra, Sarla Saklani & Versha Parcha	Vegetos: An International Journal of Plant Research and Biotechnology (Springer)	2020
22.	Development and Characterization of Colon-targeting 5-Fluorouracil Multiparticulate Beads	M. K. Sarangi, M. E. Bhanoji Rao, Versha Parcha and A. Upadhyay	Indian Journal of Pharmaceutical Sciences	2020
23.	Variation in Physico-Chemical Properties of Cymbopogon citrates (DC. Ex Nees) essential oil from different locations of Uttarakhand, India	Versha Parcha, Alok Maithani, Neelam Yadav, Amita Sati	University Journal of Phytochemistry and Ayurvedic Heights	2019
24.	Antihyperlipidemic Flavonoid Glycoside from <i>Salvadora oleoides</i> (Decne.)	Deepak Kumar & Versha Parcha	Journal of Biologically Active Products from Nature	2019

25.	Isolation, Characterization and Cardioprotective Potential of Gratissinol from Chloroform Extract of <i>Ocimum Gratissimum</i> (Linn.) Leaves	Versha Parcha, ,Yogita Dobhal & D.C. Dhasmana	Journal of Biologically Active Products from Nature	2019
26.	Isolation, Characterization, Synthetic modification and evaluation of antioxidant potential of Berberine from roots of <i>Berberis aristata</i>	Sushil Choudhary, Versha Parcha, Diviya Jyoti Singh and Deepak Kumar	Universities Journal of Phytochemistry and Ayurvedic Heights	2019
27.	Plant Based Synthesis of Silver Nanoparticles from <i>Ougeinia oojeinensis</i> Leaves Extract and their Membrane Stabilizing, Antioxidant and Antimicrobial activities	Deepak Kumar, Shefali Arora, Abdullah, Mohd Danish	Materials Today: Proceedings	2019
28.	Mineral composition of <i>Berberis aristata</i> DC roots	Ankita Sati, Sushil Chandra Sati, Jagmohan Singh Negi, OP Sati	Analytical Chemistry letters	2018
29.	Simultaneous Determination of Losartan Potassium in Pharmaceutical Products by Reversed Phase High Performance Liquid Chromatography	Raju Chandra, Abhishek Saini , Ashwani Sanghi , Ganesh Pandey , Deepak Kumar	International Journal of Pharmaceutical And Clinical Research	2018
30.	Antimicrobial Activity of Some Diaminobenzophenone Derivatives	Shefali Arora , Ajay Pratap , Shailey Singhal, Kanchan Deoli Bahukhandi , Shilpi Agarwal, Deepak Kumar	International Journal of Pharmaceutical Sciences Review and Research	2018

31.	A review on Phytopharmacological Activity of Plumeria species	Shefali Arora, Kanchan Deoli Bhaukhandi, Shailey Singhal, Mamta Latwal, Tanuja Uniyal Sati, Deepak Kumar	International Journal of Engineering, Science and Mathematics	2018
32.	Membrane Stabilizing and Antioxidant Activity of Ougeinia oojeinensis Seed Extracts and Their Fatty Acid Composition	Deepak Kumar, Ashwani Sanghi, Raju Chandra, Shefali Arora, Gaurav Tiwari, and Vaishali Mishra	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2018
33.	Membrane Stabilizing and Antioxidant activity of Myrica esculenta leaves extracts	Deepak Kumar, Ashwani Sanghi, Shefali Arora, Gaurav Tiwari, Raju Chandra, Shekhar	Saudi Journal of Medical and Pharmaceutical Sciences	2018
34.	Bio-inspired dechlorination of polyvinyl chloride	Ritu Singh, Deepak Pant	Chemical Engineering Research and Design	2018

List of Chapter's contributed in Books by the faculty of the college

S. No.	Name of Faculty	Title of Book	Editor(s) of the book	Title of Chapter	Publisher	Year	ISBN
1	Sarangi MK, Rao MEB, Parcha V, Yi DK, Nanda SN	Natural Polysaccharides in Drug Delivery and Biomedical Applications	Hasnain MS, Nayak AK	Marine Polysaccharides In Drug Delivery	Elsevier Academic Press	2019	9780128170557
2	Suraj Kumar Parcha, Versha Parcha, Pankaj Bhandari	Water Management & Governance	Prof. (Dr.) Anita Rawat Dr. Bhavtosh Sharma Dr. Om Prakash	Water Conservation, Harvesting and Conversion to Portable Drinkable Water	ABS Books, New Delhi	2023	978-93-94424-71-5

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3	Versha Parcha, Pankaj Bhandari, Sukanya Chhetri, Uday Kumar, and Raju Chandra	Medicinal Roots and Tuber for Pharmaceutical and other commercial applications	Rakesh Kumar Bachheti, Archana Bachheti	Chemical Constituents and Medicinal uses of Wasabi japonica.	Taylor & Francis Group LLC.	2023	978-10-03295-037
4	Versha Parcha, Pankaj Bhandari, Sukanya Chhetri, Uday Kumar, and Deepak Kumar	Medicinal Roots and Tuber for Pharmaceutical and other commercial applications	Rakesh Kumar Bachheti, Archana Bachheti	A comprehensive review on the medicinal use of Piper methysticum (kava kava)	Taylor & Francis Group LLC.	2023	978-10-03295-037
5	Shefali Arora, Sukanya Chhetri, Versha Parcha, Deepak Kumar	Futuristic Trends in Chemical, Material Sciences & Nano Technology	Dr. Mofieed Ahmed, Dr. S. Ellairaja, Dr. S. Ellairaja, Dr. Raghu Patel G R, Dr. Bhuvneshwar Rai	A study of various species and trans-disciplinary promise of callistemon genus	IIP Series, Selfypage Developers Pvt Ltd, India	2024	978-93-5747-867-0

PATENTS

S. No.	Patent Title	Name of Faculty, Designation and Dept. from DIBNS	Application/ Patent No.	Year
1.	A Formulation From Essential Oil & Method of Its Preparation Thereof	Prof. (Dr) Versha Parcha Dr. Deepak Kumar, Dept. of Pharmaceutical Chemistry & Chemistry	202411028069	2024
2.	Herbal Composition Having Antihyperlipidemic Activity And Method For Preparation Thereof	Dr. Deepak Kumar Prof. (Dr.) Versha Parcha, Dept. of Pharmaceutical Chemistry & Chemistry	202311055628 published on	2023
3.	Development of A Poly-Herbal Anti-Diabetic Formulation and Process Of Preparing The Same	Prof Versha Parcha, Dr. Amita Sati, Dept. of Pharmaceutical Chemistry & Chemistry	202311062755	Filed
4.	Herbal Composition Having Antihyperlipidemic Activity and Method For Preparation Thereof	Prof. Versha Parcha Dr. Deepak Kumar, Dept. of Pharmaceutical Chemistry & Chemistry	202311055628	2023
5.	Ant-Diabetic Formulation And Method For Preparation thereof	Prof. Versha Parcha, Dr. Amita Sati, Dept. of Pharmaceutical Chemistry & Chemistry	202311002172	2023
6.	Anti-Fungal Formulation and Method for Preparation thereof 2/12/2022	Prof. Versha Parcha, Dept. of Pharmaceutical Chemistry & Chemistry	202211066597	2022

7.	Method for Formulating Antidiabetic Herbal Composition	Prof. Versha Parcha, Dept. of Pharmaceutical Chemistry & Chemistry	202211063848	2022
8.	<i>Satyrium nepalense</i> extract acting against cancer and method for preparation thereof	Prof. Versha Parcha, Dept. of Pharmaceutical Chemistry & Chemistry	202211039591 A	2022
9.	Column Reactor for the Synthesis of Cyclic Carbonate of Polyols <i>via</i> Carbamide Process	Dr. Deepak Pant, Assoc. Prof. Dept. of Pharmaceutical Chemistry	T.I(01)/TIFA/2012 (Patent No. 315898)	2018
10	Novel Product Selective Degradation Reactor.	Dr. Deepak Pant, Assoc. Prof. Dept. of Pharmaceutical Chemistry	Application Reference Number Ref No: #IPR/FA/1007	2018
11.	A process for production of Antifungal Solution from CD waste.	Dr. Deepak Pant, Assoc. Prof. Dept. of Pharmaceutical Chemistry	127/DEL/2011 (Patent No. 284026)	2017

Ph. D Supervision

Name of Supervisor	Name of the student	Title of Thesis	Name of University	Year of Registration	Status
Prof.(Dr)Versha Parcha	Manoj Sarangi	Formulation Development and Evaluation of Dosage forms Containing Drug molecules for Colon Targeting	Orissa Technical University Orissa	2013	Awarded in 2023
	Sapna Bhardwaj	Chemical Examination and Biological Evaluation of Essential Oils from Artemisia arbuscula Wall. ex Besser, Artemisia vulgaris L. and Hedychium spicatum Sm.	ICFRE Deemed University Dehradun	2017	Awarded in 2022
	Monika Kinger	Phytochemical, antimicrobial, antioxidant, and anticancer activity of medicinal plants of Uttarakhand Himalayas	Uttarakhand Technical University Dehradun	2016	Pre thesis submitted 2022
	Richa Uniyal	Chemical Examination and Biological Evaluation of Essential Oils from Tanacetum longifolium Wall. Ex, Bacopa monnieri,	Uttarakhand Technical University Dehradun	.2017	Pursuing

		Morina longifolium			
	Suknya Chhetri	Synthesis and Biological Evaluation of Essential oil mediated Metal based Nanoparticles 2022	UPES Dehradun Uttarakhand	2022	Pursuing
	Prabhat Sati	Chemical characterization, biological evaluation of essential oil based metallic nanoparticles using <i>Cinamum tamala</i> and <i>Eucalyptus globulus</i>	SGRR University Dehradun Uttarakhand	2022	Pursuing
	Sadhna Negi	Chemical Examination and Biological Evaluation of Essential Oils from <i>Cyprus scariosum</i> , <i>Lavendula angustifolia</i> and <i>Corrienderum sativaum</i>	SGRR University Dehradun Uttarakhand	2022	Pursuing
	Pankaj Bhandari		UPES Dehradun Uttarakhand	2023	Registered (course work completed)
	Jyati Chauhan		SGRR University Dehradun Uttarakhand	2023	Registered (course work completed)