





PERSONAL INFORMATION

VINARS DAWANE

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WORK EXPERIENCE

Academic research area and experience	Research experience in the field of Herbal Technology, Environmental Biotechnology and Nanobiotechnology During M.Phil./ Ph.D.
Teaching Experiences	Teaching assistantship at Central University of Gujarat on Environmental Biotechnology, Natural Resources, Analytical Methods, Ecosystems and Ecology during M.Phil/Ph.D.
Industrial Experience	R & D experience in chromatography laboratory ANCHROM Mumbai HPTLC Labs, India during M.Phil./Ph.D.

ACADEMIC QUALIFICATIONS

Degree	PhD	MPhil
School and University	Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India	Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India
Theme	Natural Hybrid Coastal Mangrove Plants, Herbal Technology and Nanobiotechnology	Coastal Mangroves Plants, Phytochemistry, Drug Isolation- Identification
Topic	Potentials of <i>Rhizophora</i> species in bioactive nanoparticles synthesis	Assessment of Bioactive compounds in the selected mangroves in Mumbai.
Guide	Prof Bhawana Pathak, Dean, Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India	Prof M H Fulekar, Former Dean, Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India
Year	2016 - 2021	2012 - 2015
Percentage	N/A	6.78 FGPA

Degree	M.Sc. (Master of Science)	B.Sc. (Bachelor of Science)
Subject	Biotechnology	Biotechnology, Chemistry, Com. Sci.
College / University	Govt. Holkar Science College, DAVV University, Indore, MP, India	Govt. P.G. College, Dhar, DAVV University, Indore, MP, India
Theme	Biotechnology and Microbiology	Bioinformatics software and <i>insilico</i> techniques
Topic	Isolation and Identification <i>Rhizobium</i> Bacterium for Bio Fertilizer Production.	Bioinformatics tools and techniques for biotechnological evaluations
Guide	Prof. M M Shrivastava, HOD, Department of Biotechnology and Bioinformatics, Govt. Holkar College, Indore, MP, India	Prof Namita Dagaokar, HOD, Department of Biotechnology, Govt. P.G. College, Dhar, MP, India
Year	2010-2012	2007-2010
Percentage	74.69	74.44

ADDITIONAL RESEARCH EXPERIENCE

- Guest researcher, M.P. Oil Seed Corporation, Dhar, Madhya Pradesh. Work – Environmental biotechnology and Research work on isolation and characterization of soya bean nodule/soil microbes for industrial production of bio fertilizer and enhancement applications of various processing parameters.
- Guest Researcher and project student, Eminent Biosciences, Indore, Madhya Pradesh. Work – Research work on Pharmaco-biotechnology and Bioinformatics and *In silico* drug designing.
- Guest Fieldwork student, Godrej Prajosh Marine Ecology Centre, Mumbai, Maharashtra, for one month. Work- studies the sample collection, identification and environmental factors for mangrove plants and their ecosystems.
- Guest Researcher, Centre for Advanced studies in Marine Biology, Annamalai University, Tamil Nadu. Work – Marine biotechnology and study the mangrove estuarine ecosystems of Southern coastal part of country and the sustainable development of estuarine ecosystem. Learned the herbal technology, plant herbarium preparation, preservation, extraction of plant biomolecules, metabolites profile study and bioactivity assessment. As well as synthesis and characterization of gold nanoparticles and their biomedical applications.
- Guest Researcher, ANCROM HPTLC labs, Mumbai, Maharashtra. Work – Herbal biotechnology and plant finger printing methods, quantification of biomolecules and isolation of botanical reference materials.
- Guest Researcher, School of Chemical Sciences, Central University of Gujarat. Work – The synthesis and characterization of Palladium and BiOCl nanomaterials and environmental remediation as well as photocatalysis applications.
- Guest Researcher, IIT- Madras, Chennai, Tamil Nadu. Work – Bionanotechnology and study the nanoparticles generation using bio-mediums/ herbal technology and nano- catalysts engineering.

National Exams cleared:

- GS-2012, TIFR-NCBS. For Wildlife Biology and Conservation
- CUCET-2012, For PhD in Central University of Gujarat
- GATE-2012 (Graduate Aptitude Test Engineering), Biotechnology
- UGC-NET-2017 (National Eligibility Test), Environmental Sciences
- Govt. Holkar Science college, Indore, MP entrance - 2012 for M.Phil. in Biotechnology

ADDITIONAL INFORMATION

Awards and Accolades (Most Recent)

- IJEMR Elsevier SSRN Young Researcher Award 2021 on 8th Aug. 2021 at Vijayawada, AP.
- National Research Fellowship, Junior Research Fellowship UGC, New Delhi,, India in 2012 for M.Phil.
- National Research Fellowship, Senior Research Fellowship UGC, New Delhi, India in 2015 for Ph.D.
- Best oral presentation award in national seminar on marine natural products as pharmaceutical agents, held at Sathyabama Institute of Science and Technology, Chennai, India, on September 2019.
- Certificate of merit prize for best posters category in International conference on ethnopharmacology in development on scientifically validated quality products from medicinal plants and regulatory aspects, held at Jamia Hamdard University, New Delhi, India, on February 2020.

Details of Publications, attended workshops and trainings

1. Vinars dawane and Bhawana Pathak (2020). Assessment of Secondary Metabolite Profile and Quantification Method Development for Lupeol and Caffeic acid by HPTLC in *Avicennia marina* pneumatophore roots. **Biocatalysis and agricultural biotechnology** 26, 101573.
 2. Piplode S, Dawane V, Joshi V, Pare B (2020). BiOCl Nano Pallets Preparation and their White/Solar Light Mediated Photo Catalytic Activities Evaluation on Carbamate Pesticide Oxamyl and Synthetic Dye Azure B. **Bioscience Biotechnology Research Communications** 13 (2); 676 - 682.
 3. Vinars Dawane and M H Fulekar (2018). High performance thin layer chromatography pattern of *Excoecaria agallocha* (Thillai mangrove). **International Journal of Research in Biosciences** 7 (1): 8-19.
 4. Vinars Dawane and M H Fulekar (2017). High-performance thin layer chromatography (HPTLC) fingerprinting pattern of mangrove *Avicennia marina*. **International Journal of Pharmacy and Pharmaceutical Sciences** 9(4): 65-72.
 5. Vinars Dawane and M H Fulekar (2017). Quantification of Lupeol in *Excoecaria agallocha* Leaf, Stem and Root by HPTLC. **International Research Journal of Biological Sciences** 6 (1): 1-5.
 6. Vinars Dawane and M H Fulekar (2016). Development of HPTLC methods for isolation and characterization of botanical reference material of *Avicennia marina* stem. **Bioscience Biotechnology Research Communications** 9 (4): 841-849.
 7. Vinars Dawane, Bhawana Pathak, M H Fulekar (2016). HPTLC pattern assessment of *Avicennia marina* stem and spectrometric analysis of the separated phyto-constituents. **Bioscience Biotechnology Research Communications** 9 (1): 114-120.
- Trainings attended on Herbal Technology, Chromatography, Bioreactors design, Bio metabolite and their applications, Design and develop bioreactor, Nano particles engineering.
 - Workshops – 3, Conferences – 5, GIAN courses – 2.

Abstracts/Papers communicated and/or under writing

- Vinars Dawane and Bhawana Pathak. Comparative chromatographic fingerprinting patterns of three closely related Rhizophora mangrove species. Submission ID – 150. In international conference on ECSA 58 - EMECS 13 Estuaries and coastal seas in the Anthropocene at University of Hull, UK. Conference on 5-7 Sep. 2021. (Supporting journal – Estuarine, Coastal and Shelf Science, Elsevier).
- Areeba Khayal, Emad Ahmed, Vinars Dawane, G. Gnanamoorthy and Virendra Kumar Yadav. Advances in the methods for the synthesis of carbon dots and their emerging applications (2021). Communicated and near to acceptance in – Polymers, MDPI.
- Review article - Vinars Dawane, Satish Piplode, Man Mohan Prakash and Bhawana Pathak (2021). Appliances and role of recent analytical instrumentation techniques in bioremediation technology: A significant insides in bioremediation process, control and monitoring. (Communicated – Review in Environmental sciences and biotechnology, springer).

Book chapters and Books (Published, under writing, review or communicated)

- Book chapter – Satish Piplode and Vinars Dawane (2020). Bismuth Oxyhalides (BiOX, X = F, Cl, Br, I) Promising nanomaterial for environmental remediation. In role of chemical sciences in technology and development for sustainability. Immortal publications, Andhra Pradesh, India. 136 – 147. Status – Published.
- Book chapter - Vinars Dawane, Satish Piplode, Vishnu K Manan, Prabodh Ranjan and Abhishek Chandra (2020-2021). Non Carbon Continuing Nanobiosensors for access the Environmental Pollution Levels. Book name - Environmental Contamination Remediation through Nanotechnology, Apple Academic Press CRC. Editor – Dr. F. Tollini et al. Status – accepted and came online on 6th July 2021.
- Book chapter - Vinars Dawane, Satish Piplode and Bhawana Pathak (2021). Biomimetic route assisted synthesis of nanomaterials, their unique characterizations and exceptional applications in the field of modern sciences. Under writing and near to communication. Book name – The Handbook on Green and Sustainable Nanotechnology, Springer Nature. Editor – Dr. Uma Shankar et al. Status – accepted on 12th July.
- Book editing – Vinars Dawane and Aruna Kumari Nakella (July-August 2021). Amelioration of Environment and Biological Sciences with Technology. Immortal Publications, India. Status – at final steps towards the publication.

Selective Oral and Poster Presentations

- Oral Presentation – TLC/HPTLC and their various advanced analytical combinations on plant phytochemical evaluations: Fundamentals, Theories and Recent Applications. International Conference on **Frontier Challenges and Amelioration for environment and life sciences** on 16th – 17th May, 2020 at Dept. of Botany, Govt. College Bichhua, M.P., India.
- Poster Presentation – Vinars Dawane and Bhawana Pathak (2020). Appliance of High Performance Thin Layer Chromatography in Mangrove Herbal Technology. International Conference on **Climate Change, Mangroves and Sustainable Management** on 13th June, 2020 at Khemraj College, Sawantvadi, Maharashtra, India.
- Poster Presentation – Vinars Dawane and Bhawana Pathak (2020). Secondary Metabolites Evaluation of *Rhizophora × annamalayana* Kathir Mangrove. **International conference SFEC 2020** on 14th – 17th February, 2020 at Jamia Humdard University, New Delhi Conference proceedings in the Frontiers in Pharmacology.
- Oral Presentation - Vinars Dawane and Bhawana Pathak (2019). HPTLC evaluation of Assessment of Secondary Metabolites and Quantification of Bioactive compounds in *Avicennia marina* pneumatophore roots. **National seminar on Marine natural products as pharmaceutical agents “NSMNP-2019”** on 17th September, 2019 at Sathyabama Institute of Science and Technology.
- Oral Presentation - Vinars Dawane and Bhawana Pathak (2019). Synthesis of Metal Nanoparticles with the Use of Selected Mangroves and Their Characterization Studies. **National conference on computational biology and medical biotechnology in health care (CBMH 19) “translational medicine”** on 18th September, 2019 at Sathyabama Institute of Science and Technology.
- Poster Presentation – Vinars Dawane and Jyoti Fulekar (2016). Nanotechnology – Health and Environment. **International Conference on Material Science and Ionizing Radiation Safety and Awareness (ICMSIRSA- 2016)** on 28th – 30th January, 2016 at Dept. of Physics, Shivaji University, Kolhapur, Maharashtra, India.

Experimental and Technical Skills

Area of Understanding	Microscopy and Spectroscopy	Microbial and Biochemical and Molecular
Botany, Coastal plants, world and Indian mangroves, natural hybrid plants, Ecosystem and Ecology, Ethnopharmacology, Environmental sciences,	SEM, HR – TEM, Confocal and Florescence	Culturing, Fixation, staining and identification, Molecular Biology wet lab experiments
Herbal technology, Environmental Biotechnology, Nanotechnology, Microbiology, Bionanotechnology	UV-Vis, FTIR, MS, NMR	Various solvent extractions, chromatography (HPTLC, HPLC, GC-MS), Biochemical assays, bioactive compounds isolation - identification

Others: Command on MS Office Suite and paint

Hobbies

- Poetry writing, song writing and singing
- Speech and listening on cutting edge scientific topics
- Learning new and inter disciplinary subjects

Personal Information

- Father's and Mother's name – Shri Late Kishore Dawane and Smt. Swamita Dawane
- Marital Status – Married to Ms. Neha Damke
- Date of Birth – 27 Oct. 1988
- Blood Group – A positive

References

- Prof. Bhawana Pathak, Dean and Professor, School of Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, 382030, India. Email – Bhawana.pathak@cug.ac.in
- Prof Man Mohan Prakash Shrivastava, Head and Professor, Dept. of Zoology, Govt. Holkar Science College, Indore, India. Email - mmpshrivastava@yahoo.co.in