



DR. ASHWINI KUMAR DIXIT

Associate Professor of Botany

Qualifications: M.Sc. Ph.D.

Area of Interest/Specialization:

- Medicinal Plants, Ecosystem Services, Spiritual Botany and Ecology

Experience: 31 years

Awards and Honors:

- International Stanford Award 2015 in Ethnomedicine by IASR, USA
- Prof S. B. Saxsena Award 2017, Botanical Society at University of Saugor

Research Projects:

- Eco-restoration and natural regeneration studies of Ecolake, Pondicherry (SAT, London, UK) **Rs. 8.5 Lakhs**
- Studies of terrestrial and aquatic ecology, NTPC SIPAT. (NTPC) **Rs. 13.06 Lakhs**
- Diversity Analysis and documentation of unexplored diazotropic Cynobacteria of Chhattishgarh, CSIR DST **Rs. 24.90 Lakhs**
- Assessment of salt responsive physiological and biochemical modifications in Frankia strains, UGC Rs. **10.95 Lakhs**
- DBT-BOOST to Guru Ghasidas Vishwavidyalaya Interdisciplinary Life Science Departments for Education and Research, DBT, New Delhi Total Rs.36980300.00

School of Life Sciences

Department of Botany

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<https://scholar.google.com/citations?user=OY2LCyAAAAAJ&hl=en>

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International Collaboration/Consultancy:

- Consultancy for scientific Identification of Plants for research purpose (2022)

Best Peer Reviewed Publication

- Pharmacognostical and Qualitative Phytochemical Study of *Glinus oppositifolius* (Linn.) Aug. DC: An Important Ethnobotanical Plant, GIS journal of Science,(2021) 8(7): 2105 -2119
DOI:[20.18001.gsj.2021.v8i1.21.36308](https://doi.org/10.18001/gsj.2021.v8i1.21.36308)
- Immunity boosters in COVID-19: Reality or myth? Medicine India (2021)1,1-10
DOI: [10.25259/medindia_1_202](https://doi.org/10.25259/medindia_1_202)
- Ethno-medicinal plants used as medicine by traditional healers of Gomarda Wildlife Sanctuary, Raigarh, Chhattisgarh, India, January 2021, International Journal of Biodiversity and Conservation 4(3):371-380
- Pharmacognostic Characterization for Taxonomic Identification of *Bacopa monnieri* (L.) Wettst. for Quality Control 2021, International Journal of Pharma and Bio Sciences 11(1):54-62, DOI: [10.22376/ijpbs/lpr.2021.11.1.L54-62](https://doi.org/10.22376/ijpbs/lpr.2021.11.1.L54-62)
- *Cyathodium denticulatum* Udar et Srivastava: A rare liverwort new to Chhattisgarh, Central India, 2020 Current Botany 12(1):171-174, DOI: [10.25081/cb.2020.v11.5882](https://doi.org/10.25081/cb.2020.v11.5882)
- Assessment of total phenolic content and antioxidant potentiality of selected Indian folk medicinal plants by spectrophotometric method, July 2020, Plant Science Today 7(3):383, DOI: [10.14719/pst.2020.7.3.765](https://doi.org/10.14719/pst.2020.7.3.765)
- Scavenging and metal chelating potential of *Carthamus tinctorius* L. extracts, May 2020, Current Botany , DOI: [10.25081/cb.2020.v11.6009](https://doi.org/10.25081/cb.2020.v11.6009)
- The impact of anthropogenic organic and inorganic pollutants on the Hasdeo River Water Quality in Korba Region, Chhattisgarh, India, April 2020, Bioinformation 16(04):332-340, DOI: [10.6026/97320630016332](https://doi.org/10.6026/97320630016332)
- A comparative study of antibacterial and antifungal activities of extracts from four indigenous plants, March 2020, Bioinformation 16(3):267-273, DOI: [10.6026/97320630016267](https://doi.org/10.6026/97320630016267)
- Richness of Thalloid Liverworts in Bilaspur, Achanakmar-Amarkantak Biosphere Reserve and Lafa hills, Chhattisgarh (India), July 2019, Plant Science Today 6(3):287, DOI: [10.14719/pst.2019.6.3.469](https://doi.org/10.14719/pst.2019.6.3.469)
- In Vitro Antioxidant Activity, Total Phenolic Contents and Phytochemical Evaluation from Crude Extracts of an endangered plant *Cordia Macleodii* Hook. F. Thomson, June 2019,

- Traditional phytotherapy among the gond tribes of Janjgir-Champa, Chhattisgarh (india), February 2019, 5(1):765-771,)DOI: [10.26479/2019.0501.64](https://doi.org/10.26479/2019.0501.64)
- Rashmi Dehariya, Satish Dubey and Ashwini Kumar Dixit. Preliminary phytochemical screening, spectroscopic studies and antimicrobial screening of *Carthamus tinctorius*. Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences. 2019; 5(3): 330-339.
- Shivangee Singh, A.K.Dixit, “Pollen diversity of some ethnomedicinal plants of chhattisgarh, India”, International Journal of Creative Research Thoughts (IJCRT), 2018, 6 (2): 61-67, ISSN: 2320 2882 DOI: [IJCRT1872410](https://doi.org/10.26479/2018.0501.64)
- Shivangee Singh, A.K. Dixit, “Palynodiversity of some spices of Sida from Bilaspur Region, Chhattisgarh” Bulletin of Pure and Applied Sciences. 2018, 37 B (Botany) (2) :112-116 DOI 10.5958/2320-3196.2018.00015.0 Print version ISSN 0970 4612
- Shilpa Vinodia, Ashwini Kumar Dixit, Bajrang Das, Bhagirathi Sahu,, Harish Dhiwar, Darakhsa K. Sheikh, Mery A. Kerketta. Traditional Phytotherapy Among The Gond Tribes of Janjgir-Champa, Chhattisgarh (India), Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences 2019; 5(1) : 765-772, DOI: [10.26479/2011.0501.64](https://doi.org/10.26479/2011.0501.64)
- Ashwini Kumar Dixit Darakhsa Sheikh, “Ethnomedicinal Importance of Some Invasive Plants of Chhattisgarh, India” Bulletin of Pure & Applied Sciences- Botany, 2018, 37b (2): 58-66, DOI: [10.5958/2320-3196.2018.00009.5](https://doi.org/10.5958/2320-3196.2018.00009.5)
- Pooja Pachurekar and Ashwini Kumar Dixit. “Preliminary Phytochemicals screening and Spectroscopic Characterization of Phytoconstituents from Rhizome extract of *Hedychium coronarium* J. Koenig”. International Journal of research in Biosciences, 2018; 7(2): 34-40
- Kundan Ojha, Satish Dubey, Jagriti Chandrakar, Robin Anigo Minj, Rashmi Dehariya, Ashwini Kumar Dixit, (2018), A Review on Different Methods of Determination of Antioxidant Activity Assay of Herbal Plants, Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, DOI: [10.26479/2018.0406.56](https://doi.org/10.26479/2018.0406.56)
- Mery Aradhana Kerketta and A K Dixit (2017) Enumeration of the New Hornworts from Bilaspur (Chhattisgarh), India, Annals of Plant science ISSN: 2287-688X, Vol 6 (11) DOI: [10.21746/aps](https://doi.org/10.21746/aps)
- Shilpa Vinodiya and A K Dixit (2017) Angiospermic Flora of Achanakmar- Amarkantak Biosphere Reserve, Central India. International Journal of Botany and Research (IJBR) ISSN

- Neha Singh and AK Dixit (2017) Melissopalynological studies of Amadobh region, Bilaspur district, Chhattisgarh, International Journal of Botany Studies, ISSN: 2455-541X 2(3): 42- 51
- S. Vinodia and A. K. Dixit (2017) *Habenaria diphylla* (Nimmo) Dalzell: A new addition to the orchid flora of Bilaspur district (Chhattisgarh), Central India, Current Botany, 8: 60-65
Doi: [10.19071/cb.2017.v8.3217](https://doi.org/10.19071/cb.2017.v8.3217)
- Pooja Pachurekar and A K Dixit, (2017) “A Review on Pharmacognostical Phytochemical and Ethnomedicinal Properties of *Hedychium Coronarium* J. Koenig an Endangered Medicine” International Journal of Chinese Medicine, 2017; 1(2): 49-61 DOI:
[10.11648/j.ijcm.20170102.13](https://doi.org/10.11648/j.ijcm.20170102.13)
- Dixit, A.K. and Khan, N.S. (2017). Green synthesis and characterization of silver nanoparticles using *Centella asiatica* L. Urban. WJPR vol. 6(3);1095-1105. DOI: [10.209559/wjpr 20173-7983](https://doi.org/10.209559/wjpr 20173-7983)
- Sudhir Yadav and A K Dixit, (2016) Forensic approach in solution to the wildlife crime, International journal of Multidisciplinary research and Development, 3(6):86-93, (2016) ISSN No. 2349 4182
- Rashmi Dehariya and A K Dixit, (2015) A Review on Potential Pharmacological Uses of *Carthamus tinctorius* L. World Journal of Pharmaceutical Sciences, 3(8):1741-1746, ISSN: 2321-3310
- N S Khan, A K Dixit, R Mehta, (2015) Verdure Synthesis of AgNps From *Bacopa Monnieri* L. and its antibacterial Efficacy. World Journal of Pharmacy and Pharmaceutical Sciences 4(9): 1122- ISSN: 2278-4357
- Nikki Agrawal and Ashwini Kumar Dixit, (2015) An Environmental Cleanup Strategy - Microbial Transformation of Xenobiotic Compounds, International Journal of Current Microbiology and Applied Sciences 4 (4) pp. 429-46 ISSN: 2319-7706
- A K Dixit, S K Pandey, R Mehta, NiyazAhmad, Gunjan, Jyoti Pandey (2015) Article Study of physico-chemical parameters of different pond water of Bilaspur District, Chhattishgarh, India, Environmental Skeptics and Critics, 2015, 4(3): 89-95 IAEES www.iaees.org
- Khan N.S. Dixit A.K. and Mehta R. (2015) Biofabrication of silver nanoparticles using aqueous extract of *Ocimum sanctum* L. WJPR ,Vol.4(10).1330-1340.
- Gour GS and Dixit A K. (2012) Comparative Study of Vitamin C Effect on Serum Lipid Profile in Healthy Male and Female Human Subjects. J. Sci. Res. 4 (3), 775-781.

- Dixit A K, Vaidya S and Devaliya R.(2012) *Agrobacterium rhizogenes* MTCC 532 induced hairy root development in *Tephrosia purpurea* (L) and its effect on production of Tephrosin. *Journal of Scientific Research*. 4 (3), 741-748.
- Ashwini Kumar Dixit and Sudurshan M.(2011) Review of Flora of Anti-Diabetic Plants of Puducherry UT. *International Journal of Applied Biology and Pharmaceutical Technology*, Vol 2(4):455- 462
- Gaur G. S. and Dixit A. K. (2011) Effect of Vitamin C on Serum Lipid Profile in Normal Human Subject: A Study. *International Journal of Current Research*, Vol. 3(11):.286-288.
- Dixit, A. K. (2011) Some herbal remedies for common ailments of children in South India. *J Biosci Tech*, Vol 2 (5):379-384.
- Dixit A K and Arun N. (2011) "Assessment of Basal DNA Damage in Normal and Healthy Individuals by COMET Assay" *Journal of Bioscience and Technology*. Vol 2(2):246-255.
- Dixit A. K., and Shivani Vaidya (2010) *Agrobacterium rhizogenes* induced hairy root development and its effect on production of glycyrrhizin in *Abrus precatorius* (L). *Int J Curr Res..* Vol. 6: 033-038.
- Dixit, A. K., Kadavul, K. Rajalakshmi, S and Shekhawat, M.S. (2010) Ethno- medico-biological studies of south India. *Indian Journal of traditional knowledge*. Vol. 9(1): 116-118.
- Kadavul,K. and Dixit, A.. K.(2009) Ethnomedicinal studies of the woody species of Kalrayan & Shervarayan hills, Eastern Ghats, Tamilnadu, India. *Indian Journal of traditional knowledge*. Vol. 8(4): 592-597.
- Shekhawat, M.S. and Dixit, A. K. (2008) Micropropagation of *Eucalyptus Camaldulensis* Dehn. Clones selected for tsunami affected areas. *International Journal of Plant Sciences*. Vol. 3 (2) : 531-535.
- Dixit, A. K. (2008). New reports on terricolous mucorales of Pondicherry. *International Journal of Plant Sciences*. Vol. 3 (1) : 277-280.
- Kadavul,K. and Dixit, A. K. (2008) Extraction of non-timber forest product from the woody species of Kalrayan & Shervarayan hills, eastern ghats, Tamilnadu, India. *International Journal of Plant Sciences*. Vol. 3 (1) : 266-269.
- Rajalakshmi, S, Dixit, A. K., P.V.Deepa, and Kadavul, K. (2007) Seasonal distribution of phytoplankton in Gautami-Godavari estuary,yanam,U.T. of Pondicherry. *The Bioscan* Vol. 2(4) : 351 -354.

- Dixit, A. K. and Shekhawat, M.S. (2007). A Review on Carcinogenic Potential hazards of herbal medications. *Nature Environ. & Poll. Tech.* Vol. 6 (2): 343-350 .
- Shekhawat, M.S. and Dixit, A. K. (2007) Micropropagation of *Phyllanthus amarus* (Sahum & Thom) through nodal shoot segment culture. *International Journal of Plant Sciences.* Vol. 2 (2) : 79-84.
- Meenakshi, G., Gupta, D .K. and Dixit, A. K. (2006). Molecular interaction studies in binary mixtures using dielectric absorption. *Nature Environ. & Poll. Tech.* Vol. 5 (2) : 299-303.
- Kadavul, K., Pragasam, A., Dixit, A. K., Diane Joseph and J. Presena (2006). Biodiversity of host species of mistletoes of Pondicherry, Coromandel Coast, South India. *Nature Environ. & Poll. Tech.* Vol. 5 (2) : 309-313.
- Gupta, D .K., Dixit, A. K. and Meenakshi, G. (2006). Behaviour of polar liquids in different solvents at microwave frequency. *J Current Science.* Vol. 9 (1) : 376-380.
- Gupta, D .K., Meenakshi, G. and Dixit, A. K. (2006) Dielectric relaxation mechanism of some polar molecules in Benzene at K – Band. *J Current Science.* Vol. 9 (1) : 371-375
- Dixit, A. K. and Pragasam, A. (2006). Some important plants used in electro-homeopathic system of medicine. *International Journal of Plant Sciences.* Vol. 1 (2) : 162-164.
- Pragasam, A. and Dixit, A.K. (2006) Impact of brewery effluent on black gram (*Vigna mungo*). *International Journal of Plant Sciences.* Vol. 1 (2) : 172-174 .
- Meenakshi, G., Dixit, A. K. and Gupta, D .K., (2006). Dielectric behaviour of some polar molecules in Benzene at microwave frequency: A remedy for pollution. *Nature Environ. & Poll. Tech.* Vol. 5 (3): 393 -398.
- Shekhawat, M.S. and Dixit, A. K. (2005) Mangroves can save us from Tsunami. *Agrobios.* Vol. No. 5: 57-59 .

Recent Books/Book Chapters/Monographs etc.

- Vibha Sinha, Saurabh Saxena, Sanjay Kumar Pandey, Sudhakar Dwivedi, Suresh Thakur, Alexzendar Asia, Ashwini Kumar Dixit, Vineeta Dixit, Naveen Kumar Vishvakarma, Dhananjay Shukla. *Current Challenges for the Effective Management of Covid-19 Pandemic.* *Advances in Experimental Medicine and Biology.* (2021) 1353, 131-149.
- A K Dixit and K Kadavul, (2012) *Microbial Toxins and Toxigenic Microbes* in edition *Mycotoxins : Implications in human health*, by V D pandey and S K Singh, Studium Press LLC, USA 2012 pp 249-27.

- Khan N.S. Dixit A.K. and Mehta R.(2016) “Nanoparticle toxicity in water, soil, microbes, plants and animals” as a book chapter in Nanoscience in Food and Agriculture 2 Volume 21 of the series Sustainable Agriculture Reviews pp 277- 309; DOI.10.1007/978-3-319-39306-3_9 Springer International publishing.
- Ashwini Kumar Dixit and Kikku Kunnui, (2016) Green Synthesis of Nanoparticles Using Higher Plants in Biotechnology: A New Approach, by Gupta and Singh edition, pp 33-61, ISBN: 9789351247364 Daya Publication, India

Research Supervision

- Ph.D. Awarded : 11
- Ph.D. Under supervision : 05
- M.Phil supervised: 10
- M.Sc. Dissertations Supervised: 70

Administrative Responsibilities

- Observer: UGC SET Exam- Maharashtra 2021
- Observer UGC SET Exam – West Bengal 2022
- Ex Member, Academic council, GGV
- Ex Coordinator, University Anti Ragging Cell
- Nodal Officer- CBCS Cell University
- Convener, MHRD – GGV- Innovation Council (MIC-GGV)
- Member, Planning Cell, GGV
- Coordinator, Development Cell (3 Schools of Studies, GGV)
- Former Head, Department of Botany
- Former Head, Head, Department of Forensic Sciences
- Ex Deputy Chief Proctor.
- Member: BOS
- Member: School Board of Studies
- Member Central Purchase Committee of GGV
- And many other committees of the University

Additional Information

- Invited Talks / Lectures
- International Conferences : 05
- National Conferences: 48
- HRDC Orientation courses: 42
- HRDC Refresher Courses: 10
- International Conference Proceedings: 11
- National Conference Proceedings: 12

- Other Invited Lectures: 16

Reviewer in Research Journals

- Fungal Biology
- Planta Medica
- Plant Science Today
- Current Botany
- Journal of Scientific Research Bangladesh
- Journal of Crop Science and Biotechnology Springer
- Journals of Science Direct
- Annals of plant sciences
- Protoplasma
- Current Journal of Applied Sciences and Technology
- Journal of Scientific Research International
- International Journal of Zoological Investigations
- Acta Botanical Journal

Doctoral committee Member

- Pondicherry University, Puducherry
- Satyabhama University, Chennai
- SRM University, Chennai
- Alagappa University, Karaikudi
- Madras University, Chennai
- Annamalai University, Chidamvaram
- Bhartidasn University, Trichy
- Bharathiar University, Coimbtore
- University of Kerla, Theruvananthapuram
- CV Raman Univerity, Bilaspur
- Dr HS Gour University, Sagar MP
- Avdhesh Pratap Singh University, Rewa
- MS University, Vadodara
- Vikram University, Ujjain
- H N B University Srinagar
- RaviShankar Shukla University, Raipur
- Osmania University, Hyderabad
- NEHU, Shillong