

School: School of Natural Resources

Department : **Pharmacy**

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Name: **Dr. Bharti Ahirwar**

Qualification: M. Pharm, Ph.D

Area of Interest/Specialization: Pharmacognosy / Herbal Drug Technology

Experience: 22 Years

Awards and Honors

➤ 1st Chhattisgarh Young Scientist Award by CCOST (2002)

- ➤ 2nd Chhattisgarh Young Scientist Award by CCOST (2004)
- Research Award (PDF) from University Grant Comission-2011
- ➤ Distinguished woman Awards-VIWA 2018 in health and Medical sciences by Venus International Foundation, Chennai(T N)
- ➤ Women scientist of the year awards -2018,by IPG, Oriental University, Indore

Research Projects: completed three research projects

- ➤ Mini research project funded by Chhattisgarh council of Science & Technology (CCOST), Raipur (2008-2010) Title: A Study on Insecticidal Activity of C. *Collinus* to develops an effective insecticide for rice crop protection.
- ➤ Mini research project funded by Chhattisgarh council of Science & Technology (CCOST) Raipur (2015-2018) Endt No.1098/CCOST/MRP/2015. Title: Ethnopharmacological evaluation of medicinal plants of Chhattisgarh against breast cancer.
- ➤ SERB (DST, New Delhi) scheme of "Empowerment and equity opportunities for excellence in science" SB/EMEQ-515/2014, dated: 21-03-2016 duration: 01 year,

Title: Approaches for exploring some medicinal plants from Chhattisgarh for management of liver disorder and oxidative free radicals by *in vivo* and *in vitro* experimental models.

Collaboration/Consultancy

- ➤ 2022, Structural elucidation using FT-IR spectroscopy, GGV
- ➤ 2022, Nanoformulation of secondary metabolites isolated from medicinal plants for effective management of ocular diseases, GGV

List of Publications (All)

- ➤ Bharti Ahirwar and S. Nayak, Ipomoea cell culture: An alternative source of Ergot Alkaloids, The Indian Pharmacist, 2002, 9-10.
- ➤ Daharwal SJ, Saraf S and Ahirwar B, Antibacterial ointment of Guggul, aqueous extract of Neem and Turmeric, Sachitra Ayurved, 2003, 765-767.
- ➤ Bharti Ahirwar, AK Singhai and VK Dixit, Effect of *Terminalia chebula* on lipid profile of rats, Journal of Natural Remedies, 2003, 3/1, 31-35.
- Ahirwar D. Ahirwar B. and Kharya MD., Effect of alcoholic extract of *Trigonella foenum-graecum* seeds on glycogen content of ovariectomized rats, Indian Drug, 2005, 42(11), 751-754.
- Ahirwar D. Ahirwar B. and Kharya MD., Effect of aqueous extract of *Withania coagulance* on alloxan-induced diabetes rats, Pharmacog Magazine, 2007, June, 121-124.
- ➤ Dheeraj Ahirwar, Ahirwar B. and Kharya MD, Effect of alcoholic extract of *Calotropis procera* on biochemistry of reproductive organs of female albino rats, Indian Journal of Pharm. Science, 2007 May-June, 152-154
- Ahirwar Bharti, Ahirwar D and Ram Alpana, Comparative quality parameter of Asava, International Journal of Green Pharmacy, 2007, 1(3-4):42-43.
- Ahirwar D. Ahirwar B. and Kharya MD., Effect of alcoholic extract of *Trigonella foenum-graecum* on periodicity of estrus cycle of adult cyclic rats, Journal of Pharmaceutical Research, vol. 6, No.4, October 2007, 193-196.
- ➤ Ahirwar B, Ahirwar D and Alpana Ram, Antihistaminic activity of AVB-01 a polyherbal formulation, Pharmacog Magazine, 2008, 4(15 supp): S 46-50.
- ➤ Bharti Ahirwar, Dheeraj Ahirwar and Alpana Ram, Antihistaminic effect of sitopaladi churna extract, Research J. Pharm. and Tech., 2008, 1(2): 89-92.

- Ahirwar D. Ahirwar B. and Kharya MD., Antifertility activity of flavonoids from *Trigonella foenum-graecum* seeds, CSVTU Research Journal, Vol. 1, No.1 2008.
- ➤ Bharti Ahirwar, Ahirwar D, V K Dixit and Alpana Ram, Antihistamine activity of Kanakasava: A polyherbal formulation, Adv. Pharmacol. Toxicol., 2008, 9(3); 141-145.
- Ahirwar B, Ahirwar D and Alpana Ram, Passive cutaneous anaphylactic activity of vasavaleha, CSVTU Research Journal, 2009, 2(2): 78-80.
- Ahirwar B, Ahirwar D and Alpana Ram, Air Pollution a major culprit of asthma, RJST, Vol. 1, 2009.
- ➤ Gupta S, Ahirwar D, Jhade J, Sharma N, Ahirwar B, Muthal N, Pharmacognostic standardization, physico and phytochemical evaluation of *Plumbago zeylanicum*, Drug Invention Today, 2010, 2(9): 408-410.
- Ahirwar Dheeraj, Ahirwar Bharti, MD Kharya. Effect of ethanolic extract of *Jatropha curcus* seeds on estrus cycle of female albino rats. Der Pharmacia Letter, 2010,2(6); 146-150.
- Ahirwar Dheeraj, Ahirwar Bharti, MD Kharya. Evaluation of antifertility activity of *Trigonella foenum graecum* seeds. Der Pharmacia Sinica, 2010, 1(3);33-39.
- ➤ K. Murugan, D.K. Shrivastava, S.K.B. Patil, Lanjhiyana Sweety, Lanjhiyana Sanjay Kumar, Garabadu Debapriya, Ahirwar Bharti. Role of Glycosylated Hemoglobin in Diabetic Patients associated with Hyperlipidemia in Chhattisgarh Region: A Biochemical Analysis. International Journal of Toxicological and Pharmacological Research, 2010; 2(1); 45-50.
- ➤ K. Murugan, D.K. Shrivastava, S.K.B. Patil, Lanjhiyana Sweety, Garabadu Debapriya, Ahirwar Bharti and Lanjhiyana Sanjay Kumar. Biochemical Investigation of Glycosylated Haemoglobin in Diabetes Associated Nephropathy in Chhattisgarh Population. Advances in Applied Science Research, 2010, 1(2), 106-113.
- ➤ K. Murugan, D.K. Shrivastava, S.K.B. Patil, Lanjhiyana Sweety, Garabadu Debapriya, Ahirwar Bharti and Lanjhiyana Sanjay Kumar. A Systematic Study on the Glycosylated Haemoglobin in Diabetes Associated Neuropathy in Chhattissgarh Population. Der Pharmacia Sinica, 2010, 1(2), 122-129.
- ➤ K. Murugan, D.K. Shrivastava, S.K.B. Patil, Lanjhiyana Sweety, Garabadu Debapriya, Ahirwar Bharti and Lanjhiyana Sanjay Kumar. A Systematic Study on

- the Glycosylated Haemoglobin in Diabetes Associated hypertension in Chhattissgarh Population, Der Pharmacia Sinica, 2010, 1(3), 79-85.
- ➤ K. Murugan, D.K. Shrivastava, S.K.B. Patil, Lanjhiyana Sweety, Garabadu Debapriya, Ahirwar Bharti and Lanjhiyana Sanjay Kumar. A Systematic Study on the Glycosylated Haemoglobin in Diabetes Associated obesity in Chhattissgarh Population. Advances in Applied Science Research, 2010, 1(3): 112-117.
- ➤ Gupta S, Ahirwar D, Jhade DN, Sharma N, Ahirwar B, Pharmacognostic standardization, physico and phytochemical evaluation of aerial part of *Mentha arvensis* L. Inter J Pharm Sci Drug Res, 2010, 2(4): 261-264.
- ➤ R.N. Patil, R.Y. Patil, Bharti Ahirwar and Dheeraj Ahirwar. Antidiabetic activity of leaves of *Jatropha curcus* L. (Euphorbiaceae) in alloxan induced diabetes rats. Pharmacologyonline, 2010, 3; 662-668.
- Ahirwar D. Ahirwar B. and Kharya MD, Pharmacological investigation of *Trigonella foenum-graecum* seeds, Adv. Pharmacol. Toxicol., 2010, 1; 157-161
- ➤ Sanjay Kumar Lanjhiyana, Debapriya Garabadu, Sweety Lanjhiyana, Bharti Ahirwar and Amitabh Arya. *In-Vitro* and *In-Vivo* Release Studies of Methotrexate from Novel Enteric Coated Time-dependent Microbial-Triggered Drug Delivery Systems for Colon Specific Targeting. International Journal of Pharmaceutical Sciences Review & Research, vol.5 (1), Nov-Dec.2010, 124-130.
- ➤ R.N. Patil, R.Y. Patil, Bharti Ahirwar and Dheeraj Ahirwar. Evaluation of antidiabetic and related action of some Indian medicinal plants in diabetic rats. Asian Pacific Journal of Tropical Medicine, [Elsevier], 2011; 20-23.
- ➤ Raju Patil, Ravindra Patil, Bharati Ahirwar and Dheeraj Ahirwar. Isolation and characterization of anti-diabetic component (bioactivity-guided fractionation) from *Ocimum sanctum* L. (Labiateae) aerial part. Asian Pacific J. of Tropical Medicine, 2011, 278-282.
- ➤ Gupta Sandip, Ahirwar Dheeraj, Sharma Neeraj, Jhade DN, Ahirwar Bharti, Effect of plumbagin free alcohol extract of *Plumbago zeylanica* root on reproductive system of female Wistar rats, Asian Pacific J. of Tropical Medicine, 2011, 978-984.
- ➤ Raju Patil, Ravindra Patil, Bharati Ahirwar and Dheeraj Ahirwar, Current status of Indian medicinal plants with antidiabetic potential: A review, Asian Pacific J. of Tropical Biomedicine, 2011, 1-8.

- Ahirwar Dheeraj, Ahirwar Bharti and Kharya MD. Reversible Antifertility Activity of Hydroalcoholic Extract of *Ficus racemosa* L. in Male Mice. Journal of Reproduction and Contraception, 2011, 22(1), 37-44.
- ➤ S. Lanjhiyana, D. Garabadu, D. Ahirwar, AC Rana, B Ahirwar, and SK Lanjhiyana. Pharmacognostic Standardization and Hypoglycemic Evaluations of Novel Polyherbal Formulations. Der Pharmacia Lettre. 2011, 1 (3), 319-333.
- Ahirwar Bharti and Ahirwar Dheeraj. Insecticidal Activity of *Cleistanthus collinus* Roxb. Der Pharmacia Chemica, 2011, 3(1), 49-52.
- ➤ Bharti Ahirwar. Evaluation of in-process Quality Control Parameters of Kankasava. Der Pharmacia Lettre, 2011, 3(3), 374-377.
- ➤ Bharti Ahirwar, Evaluation of formulation variables for Ayurvedic formulation vasavaleha, Research J Sci Tech, 2012, 4(6), 295-297.
- ➤ Bharti Ahirwar, In-process quality control parameters of Ayurvedic formulation sitopaladi churna, Asian J Research Chem, 2012, 5(12), 1457-1459.
- ➤ Dheeraj Ahirwar, Bharti Ahirwar, Alpana Ram, Nanotechnology for herbal extract: A novel approach, APTI Bulletin, 2012, Nov-Dec, 14(79).
- ➤ Bharti Ahirwar, Evaluation of stability study of Ayurvedic formulation vasavaleha, Asian J Res. Pharm. Sci, 2013, 3(1), 1-4.
- ➤ Bharti Ahirwar , Stability study of Ayurvedic formulation kankasava, Asian J Pharm. Tech 2013, 3(1), 1-4.
- ➤ Bharti Ahirwar Bioavailability study of kankasava, Asian J Pharm. Res, 2013, 3(1), 1-2.
- ➤ Bharti Ahirwar Evaluation of plasma drug concentration of vasavaleha, Asian J Pharm. Ana., 2013, 3(1), 1-2.
- ➤ Dheeraj Ahirwar, Bharti Ahirwar, Anish Chandy, Microspheres for targeting an alkaloidal anticancer drug in colon cancer, RJPT, 2013, 6(6), 618-621.
- ➤ Tiwari P, Ahirwar D, Chandy A, Ahirwar B, Evaluation of hepatoprotective activity of alcoholic and aqueous extracts of Selaginella lepidophylla, Asian Pac J Trop Dis 2014; 4(Suppl 1): S81-S86.
- ➤ Swaha Satpathy, Arjun Patra and Bharti Ahirwar, Experimental techniques for screening of antiosteoporotic activity in postmenopausal osteoporosis, J. Complement Integr. Med. July 2015; aop, , 12(4), 251-266

- ➤ Harshita Jain, Prateek Jain, Bharti Ahirwar and Dheeraj Ahirwar, Ameliorating effect of piperine on NO-cGMP pathway in stress induced depression, Star Journal, International journal of Wollega University, Ethiopia.Jan-March 2015, 4(1): 109-114.
- Ruchi Singh Thakur, Rajesh Singh Pawar, Bharti Ahirwar, Evaluation of Saraca indica for the management of dexamethasone-induced osteoporosis, Journal of Acute Medicine 6 (2016) 7-10
- ➤ Ruchi S.Thakur, and Bharti Ahirwar ,Effect of Various Extracts of *Dryopteris Cochleata* against Cancer Cell Line, International Journal of Biotechnology and Biomedical Sciences ,Volume 2, Issue 2; January-June, 2016 pp. 139-141 e-ISSN 2454-7808,2454-4582
- ➤ Ruchi S.Thakur, Bharti Ahirwar, Natural compounds: A Weapon to ameliorate breast cancer cells: A Review, Anti- cancer Agents in Medicinal chemistry, 17,(3), 374-384, 2017[Impact factor 2.72].
- ➤ Ruchi S.Thakur, Bharti Ahirwar, Ethnopharmacological evaluation of medicinal plants for cytotoxicity against various cancer cell lines, International journal of Pharmacy & Pharmaceutical Sciences. Vol. 9 Issue 5,198-202 May 2017.
- ➤ Harshita Jain, Prateek Jain, Bharti Ahirwar and Dheeraj Ahirwar, Antidepressant like activity of Piperine in immobilization induced stress in mice, Asian Journal of Pharmacy and Pharmacology 2017; 3(3): 105-11
- ➤ Swaha Satpathy, Arjun Patra, M. Delwar Hussain & Bharti Ahirwar, Simultaneous estimation of genistein and daidzein in *Pueraria tuberosa* (Willd.) DC by validated high-performance thin-layer chromatography (HPTLC) densitometry method. J of Liquid chromatography &related technologies, Vol.40 (10), 499-505, 2017.
- ➤ Sinha Moumita, Vishwakarma Niketa, Pradhan Ashish, Rao I. Arjun, Ahirwar Bharti and Mitra Mitashree, The Role of Dopamine D2 Receptor Polymorphism Towards Susceptibility to Alcohol Dependence Among Male Cases of Bilaspur District: A Preliminary Study, European Journal of Biomedical and Pharmaceutical Sciences, 2017, Volume: 4 Issue: 12 851-857, ISSN:2349-8870,
- Arjun Rao, Akhilesh Tiwari, Moumita Sinha, Sujit Nayak, Sudhanshu Bhatt, Bharti Ahirwar, The role of ALDH2 and ADH1B polymorphism in Alcohol Dependence: A Case- Control Study from Bilaspur, Chhattisgarh, India, European Journal of Biomedical and Pharmaceutical Sciences, 2017, Volume: 4 Issue: 12 440-445, ISSN:2349-8870.

- ➤ Rao I. Arjun, Sahu Manju, Sallawad Sandip S, Sinha Moumita, Ahirwar Bharati, Characteristics and Identifying Features of Various Natural Toxins and Poisonous Plants used as Weapons in Forensic Cases, 10(12): December 2017, Research J. Pharm. and Tech., IF: 0.41.
- ➤ Rao I. Arjun, Sinha Moumita , Sahu Manju and Ahirwar Bharati, Disease Association of Mitochondrial DNA haplogroups, 10(12): December 2017, Research J. Pharm. and Tech.,
- ➤ Sallawad Shankar Sandip, Sahu Manju, Ahirwar Bharti, Examination of Simulated Forgery and its Investigation Protocol. 2017. 10(12): 4211-4214, Research Journal of Pharmacy and Technology.
- ➤ Manju Sahu, Moumita Sinha, Isukapatla Arjun Rao, Smriti Sahu, Bharati Ahirwar, Thin Layer Chromatography analysis of different Plant Growth Hormones, Research Journal of Pharmacy and Technology, 10 (12) 2017.
- ➤ Singh Akansha, Sinha Moumita, Sahu Manju, Ahirwar Bharti, Rao I Arjun, Examination of tobacco chewed saliva on different fabrics using Starch-Iodine test: A Forensic Perspective 10(12): December 2017.
- Sahu Manju, Sinha Moumita, Rao Arjun I, Sallawad S. Sandip, Ahirwar Bharati, Study of variation in ball point ink of different brands by Thin Layer Chromatography 10(12): December 2017, Research Journal of Pharmacy and Technology, IF: 0.41
- ➤ Microbial Biogeography and Specificity as a Tool of Identification in Forensic Caseworks- A Review based on Meta-analysis, 10(12): December 2017, 4451-4456, Research J. Pharm. and Tech., IF: 0.41.
- ➤ Vibhor K. Jain, Bindu Jain, Dheeraj Ahirwar, Bharti Ahirwar, Mast cell stabilizing effect of hydroalcoholic extract of *Jasminum sambac* leaves against compound 48/80-induced degranulation, International Journal of Green Pharmacy. 2018, 12 (2): S1-S8.
- ➤ Bindu Jain, Vibhor K. Jain, Dheeraj Ahirwar, Bharti Ahirwar Acute oral toxicity and *in vitro* leukotriene inhibitory property of hydroalcoholic extract of *Nicotiana tabacum* in guinea pig lung strips, International Journal of Green Pharmacy. 2018, 12 (2): 1-8.
- > Swaha Satpathy, Arjun Patra, Bharti Ahirwar & Muhammad Delwar Hussain, Antioxidant and anticancer activities of green synthesized silver nanoparticles using

- aqueous extract of tubers of *Pueraria tuberose*, Artificial Cells, Nanomedicine, and Biotechnology, An International Journal, 1-11, 2018.
- S. Satpathy, A. Patra, M.D. Hussain, B. Ahirwar, Amelioration of postmenopausal osteoporosis and anticancer properties of an antioxidant enriched fraction from Hygrophila spinosa T. Anders, South African Journal of Botany 117 (2018) 247–255.
- ➤ Ruchi Singh Thakur, Bharti Ahirwar, A steroidal derivative from *Trigonella foenum* graecum L. that induces apoptosis in vitro and in vivo, Journal of food and drug analysis 27(2019), 231-239, , ISSN 1021-9498.
- Arjun Rao Isukapatla, Moumita Sinha, Venugopal Pulamagatta, Adimoolam Chandrasekar and Bharti Ahirwar, Genetic Architecture of Southeast-coastal Indian tribal populations: A Y-chromosomal phylogenetic analysis, Egyptian Journal of Forensic Sciences, (2019) 9:30, 1-9.
- Ahirwar B, Ahirwar D, Antioxidant and Hepatoprotective Activity of Root extract of *Baliospermum montanum* (Willd) Muell Arg, Research J. Pharm. and Tech. 12(6): June 2019.
- ➤ Dheeraj Ahirwar, Bharti Ahirwar, Antidepressant effect of Nigella sativa in stress-induced depression, Research J. Pharm. and Tech. 13(4): April 2020.
- ➤ Bharti Ahirwar, Dheeraj Ahirwar, In vivo and in vitro investigation of cytotoxic and antitumor activities of polyphenolic leaf extract of *Hibiscus sabdariffa* against breast cancer cell lines, Research J. Pharm. and Tech 2020; 13(2):615-620...
- ➤ Swaha Satpathy Arjun Patra, Bharti Ahirwar & Muhammad Delwar Hussain Process optimization for green synthesis of gold nanoparticles mediated by extract of *Hygrophila spinosa* T. Anders and their biological applications, Physica E Low-dimensional Systems and Nanostructures, 121, 113830 July 2020,
- Lepadigathis cristata Wild. Traditional Plant of Chhattisgarh Tribes: An Alternative Cure, 14(6): June 2021, Research J. Pharm. and Tech.
- ➤ Swaha Satpathy, Arjun Patra , Muhammad Delwar Hussain, Mohsin Kazi , Mohammed S. Aldughaim, Bharti Ahirwar, A fraction of *Pueraria tuberosa* extract, rich in antioxidant compounds, alleviates ovariectomized-induced osteoporosis in rats and inhibits growth of breast and ovarian cancer cells, PLOS ONE ,January 14, 2021, 1-22.,
- ➤ Nirupama R Dewangan, Avantika Agrawal, Bharti Ahirwar. Novel Therapeutic approach of *Mollugo cerviana* (L.) Ser Plant: A Review. J. Pharm and Tech. 15(7); 2022.

Patent Grants

- ➤ Herbal Contraceptive composition, 335400, 20/03/2020.
- Formulation Derived from Phytoconstituents for Treatment of Diabetes, 2021103573, 21/07/2021.
- Contraceptive Composition, 2021103481, 04/08/2021.
- ➤ Nebivolol loaded poly (D, L-Lactic-co- glycolic acid) or (PLGA) Nanoparticles for high blood pressure, 2021106458, 23/08/2021.

Published Indian Patent

➤ Leaf decoction for crop protection and methodology, 1104/MUM/2013.

Conferences

Abstract/Paper Presented in Conferences/Seminars

- ➤ Insecticidal activity of *C. collinus* for rice crop Protection, 1st Chhattisgarh Young Scientist Congress, Raipur, September 2nd and 3rd2002, CCOST, Raipur.
- ➤ Effect of *Trigonella foenum-graecum* seeds on estrus cycle in female rats, In National Convention on Current Trends in Herbal Drugs at Gandhinagar Gujarat, January, 2003, 17-18.
- Antibacterial activity of alcoholic extract of *Vicoa indica* Dc. In: National Convention on Current Trends in Herbal Drugs at Gandhinagar Gujarat, Jan. 17-18, 2003.
- ➤ Antibacterial Ointment of Guggul and aqueous extract of Neem and Turmeric. In: National Convention on Current Trends in Herbal Drugs at Gandhinagar Gujarat, Jan. 17-18, 2003.
- Antifertility activity of n-Hexane extract of fenugreek seeds. 54th IPC Pune, 13-15 Dec. 2003.
- ➤ Evaluation of Standards of Quality Control Parameters of Herbal Drugs. National Seminar on Recent Trends in Herbal Therapy. SLT Inst. Of Pharm. Sci., GGV, Bilaspur. March 27-28, 2006.
- ➤ Effect of aqueous extract of *W. coagulance* on blood glucose level of rats. 2nd Chhattishgarh Young Scientist Congress. February 28th-29th 2004, CCOST, at Bilaspur.
- ➤ Product Management- Important aspect of Pharmaceutical Industry. 55th IPC, Chennai 2004.

- ➤ In vitro human sperm immobilization through Heena & Fenugreek. 55th IPC, Chennai, 2004.
- ➤ Effect of *Calotrois procera* on estrus cycle in female rats. 'Current Advances in Phytopharmaceuticals' National Seminar of Indian Society of Pharmacognosy, March 10-12, 2006. IOP, Raipur.
- Asthma and Herbs. National Seminar on "Emerging Trends in Pharma Research" Nov 17-18, 2006, GGV, Bilaspur.
- ➤ Effect of fenugreek on haematology in albino rats. National seminar on "Current Trends in Herbal Therapy" March 27-28 2006, GGV, Bilaspur.
- ➤ Effect of *Jatropha curcus* seeds on estrus cycle in female albino rats, National Conference on "Global Trends in Pharma Opportunities & Challenges", Chennai 2006.
- Antiimplantation activity of fenugreek, National Conference on "Current Trends in Pharma", University Institute of Pharmaceutical Sciences. Bangalore, 2007.
- ➤ Effect of alcoholic extract of *Trigonella foenum gracecum* and *Calotropic procera* on periodicity of estrus cycle of adult cyclic female rats. 58th IPC, Mumbai.
- Antianaphylactic activity of CHC a polyherbal formulation. 12th APTI, University Institute of Pharmaceutical Sciences. Bangalore, 2007.
- Antifertility potential of flavonoids from *Trigonella foenum-graecum* seeds. Second International Conference and Indo-Canadian satellite symposium on Pharmaceutical Sciences, Technology, Practice and Natural Products, Feb 24-26, 2007, JSS College of Pharmacy, Ooty.
- Comparative Quality parameter of Asava. Second International Conference and Indo-Canadian satellite symposium on Pharmaceutical Sciences, Technology, Practice and Natural Products, Feb 24-26, 2007, JSS College of Pharmacy, Ooty.
- Antifertility potential of fenugreek. IPC, New Delhi, 2008.
- ➤ Bronchodialating effect of Sitopaladi churna. 5th world congress on cellular and molecular biology, DAV, Indore, Nov. 2-6, 2009.
- Antihistaminic and Bronchodilator Activity of Kankasav: A Polyherbal Formulation. International Conference on Herbal Medicine- Evaluation of Quality, Efficacy and Safety. Al-Ameen College of Pharmacy, Banglore. Feb. 26-28, 2009.
- ➤ Vaginal contraceptive efficacy of *Ficus racemosa*, First International Convention of Society of Pharmacognosy, KLE University Belgum. 18-20 Feb 2011.

- ➤ Bioavailability study of Kankasava, First International Convention of Society of Pharmacognosy, KLE University Belgum. 18-20 Feb 2011.
- ➤ Preparation and evaluation of herbal contraceptive formulation, National conference, Jadavpur University, Kolkata, 7-8th Feb 2011.
- ➤ Evaluation of antiasthmatic effect of vasavaleha, International Conference, Jadavpur University, Kolkata, 17-19 Feb 2012.
- Antianaphylactic effect of Vasavaleha, National Conference, Boraon, 22nd Sep 2012.
- ➤ Evaluation of antiasthmatic effect of sitopaladi churna, 2nd Annual Conference of SPER, Jamia Hamdrd University, New Delhi, India, 9th March, 2013.
- ➤ Nano-scale based drug delivery system for targeting a plant based podopyllotoxin alkaloid for leukemia, National Seminar, DBT Sponsored, Columbia Institute of Pharmacy, Raipur, 17th March, 2013.
- ➤ Mast cell stabilizing activity of vasavaleha, Current Trends in Pharmaceutical Technology and Drug Design, 22nd September 2013, SIPS, Sagar (M.P.)
- Antiasthmatic activity of marketed Kankasava: An Indian Ayurvedic herbal formulation, Emerging Trends & application of Herbal Technology, 10-11th August, 2013, AKS Charitable trust's, Rajiv Gandhi Institute of Pharmacy, Satna (M.P.)
- Quality control parameters of sitopaladi churna, National Seminar, 5th March, 2013.
 Siddhi Vinayaka Institute of technology and Sciences, Bilaspur
- ➤ India's prospects to becoming drug discovery & pharmaceutical innovation hub GoI initiatives & your role, National Workshop, School of Pharmacy, CEC, Bilaspur, 15th Oct, 2011.
- Antimicrobial activity of *Acacia leucopholea* root, National Conference, Department of Botany, Govt. E.R.R. PG. Science College, Bilaspur, 16-17th Feb, 2013.
- Plasma drug concentration of sitopaladi churna, National Seminar, DBT & CSIR, New Delhi, 2-3rd Feb, 2013.
- ➤ Pharmacognostical standardization of sitopaladi churna, National Seminar, UGC-SAP Sponsored, Pt. Ravi Shankar Shukla University, Raipur, 31-2nd Feb, 2013.
- ➤ Role of complementary and alternative medicine in treatment of breast cancer, National Seminar on Recent Advancement in Drug delivery Techniques and Drug designing, MPCST Sponsored, Peoples College of Pharmacy, Bhopal, 26-27 Sept, 2014
- > Study of *Polyalthia longifolia* in treatment of osteoporosis induced by dexamethasone in female rats. International conference on Progress & Advances in human

- Managenment & healthcare reforms, SERB-DST sponsored, ADINA Institute of Pharm. Sciences. Sagar, 11-12 Oct 2014.
- ➤ Medicinal Plants for liver disorder, Advance technique for enhancement of fitness, wellness and sport skill with special reference to Tribal students, National seminar at Chouksey Engineering College Bilaspur, 2014
- > Evaluation of antiallergic effect of kankasava: An Ayurvedic herbal formulation,
- ➤ International Conference on Advances in Plant Sciences, University Technology MARA, Kuching, Sarawak, Malaysia 18-21 Nov 2014
- ➤ National seminar on Ethnomedicine and New drug Discovery: Opportunities and Challenges, April 10-11, 2015, organized by SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.)
- ➤ Simultaneous Estimation of Piperine and Atropine in Ayurvedic Formulation Kankasava by HPTLC Method, Innopharm 1, First International conference on Novel frontiers in Pharmaceutical and Health sciences, organized by Innovare Academic sciences on 10-11 Oct. 2015 at M.P. council of sciences and Technology, Bhopal.
- ➤ National seminar on Recent Trends in Green Therapies for Disease prevalent in Chhattisgarh state, Shri Rawatpura sarkar Institute of Pharmacy, Kumhari, Drug, C.G., 16-17 Oct. 2015.
- ➤ 3rd International congress Society for Ethnopharmacology, on Ethnopharmacology & Evaluation of Medicinal Plants Global perspective, 19-21 Feb. 2016, Organized by Pt. RSSU, Raipur & SFE, India
- ➤ National seminar on Traditional Knowledge and Biodiversity of Chhattisgarh, March 4-5, 2016, Organized by Royal College of Pharmacy, Raipur.
- ➤ Stability Study of laboratory prepared Ayurvedic formulation Sitopaladi churna, National Seminar on Bridging gap between Academic and Pharmaceutical Industries, 5-6th March, 2016, Organized by Columbia Institute of Pharmacy & CCOST, Raipur.
- ➤ Two day Workshop on Intellectual property Rights, IP Commercialization and prevention of plagiaanized, Organized by CCOST & GGV Bilaspur, on 26 & 27 Feb, 2016
- ➤ Antiasthmatic Effect of Kankasava in Ova-induced Asthma Mouse Model, International conference on innovations in Pharmaceutical sciences, ICIPS, Feb. 27-28, 2016, Shri Aurobindo Institute of Pharmacy, Indore
- ➤ Bio-pesticides: Eco-friendly Methods, National Seminar on Herbal drug research:current status with reference to Institution- Industry interaction opportunities

- and challenges in Chhattisgarh, 16th Feb 2016, Siddhi vinayaka Institute of technology & sciences, Bilaspur
- Screening of Antioxidant Potential of Edible Plants of Chhattisgarh used in the Treatment of Liver disorder. International conference on Nutraceuticals & Chronic diseases, September 9-11, 2016, Cochin, Kerala, India, Sponsored by IIT Guwahati
- ➤ Evaluation of antioxidant activity of medicinal plants of Chhattisgarh used in Liver Disorder and Identification of Phenolics through HPLC, Innovations and interpreneurship in biotechnology, National seminar, organized by department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur, from 26-27 December 2016.
- ➤ Recent advances in novel drug delivery system for herbal formulations against neurodegenerative diseases, 17-18 Feb 2017, organized by Siksha O anusandhan University Oridisa.
- ➤ Ethnomedicinal plants of Chhattisgarh and their therapeutic effect in liver diseases, oral presentation for the theme "Bhartiya Tribal Culture and Developement" International Conference on Bharat Rejuvenation (ICBR 2017), to be held at Guru Ghasidas Central University, Bilaspur, Chhattisgarh, India from 15-17 Oct 2017.
- ➤ In-Vitro antioxidants, cytotoxicity HPLC and GC-MS analysis of leaves extract of *Hibiscus sabdariffa*: edible plant of Chhattisgarh, 18th International Congress of International Society for Ethnopharmacology (ISE) & the 5th International Congress of the Society for Ethnopharmacology (SFE), India (ISE-SFEC 2018, January 13-15, 2018 at Dhaka, Bangladesh.
- ➤ Hibiscus sabdariffa L. 'Alternative Cure' for Breast Cancer, National seminar organized by Dept of Botany, GGV
- ➤ Phytochemical Investigation of *Hibiscus sabdariffa* L.: An attempt towards ethnobotanical inspired drug discovery, Recent Trends in drug discovery, development and delivery systems, National seminar, 12 february 2018, Dept of Pharmacy, GGV
- ➤ Cytotoxic potential of *Hibiscus sabdariffa* L. leaf polyphenol extract on breast cancer cell: *In vitro* and *In vivo* study, International conferenceon herbal medicine: research & commerce global prospective, Dec 27-29, 2018, L.M. college of Pharmacy, Ahmedabad Gujarat
- > "Screening of Holarrhena antidysenterica (Linn.) Wall used by tribes of Chhattisgarh

- for the management of liver diseases". Traditional medicine and modern drug research for better health care, National seminar on 7 th March 2019 organized by Institute of pharm sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur.
- ➤ Statistical analysis for Pharmaceutical Research, 3rd international conference, innovative research in science management and technology -ICIRSMT 2021 held virtually during 27-28 December 2021, by Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur, Chhattisgarh.
- ➤ Legacy of Traditional knowledge, National Symposium-Cum Workshop on "Biodiversity and Its Utilization and Conservation in Central India" (In Blended Mode) 21-22 February 2022.

Recent Books/Book Chapters/Monographs etc.

Books

- Industrial Pharmacognostical Technology, ISBN No. 97815-43345-82-7, 2022.
- Quality Control and standardization, ISBN No. 97815-43346-47-3, 2021
- ➤ Pharmacognosy Practical Book, 97893-85525-31-5, 2016.

Book Chapters

- An overview on pharmacological effects of few phytopolyphenols from dietary and herbal origins, In: Challenges and Advances in Pharmaceutical Research, ISBN No. 978-935547-352-3, 2022.
- ➤ Role of polysaccharides in advancement of pharmaceutical sustained and controlled release dosage forms, In: Current Aspects in Pharmaceutical Research and Development, ISBN N0. 978-93-5547-141-3, 2022.
- ➤ Colon directed drug transport by way of AZO prodrug, In: Challenges and Advances in Pharmaceutical Research, ISBN No. 978-935547-352-3, 2022.

Research Supervision

- ➤ 06 M. Pharm Awarded
- ➤ 02 M. Pharm Pursuing
- > 02 Ph.D. Awarded
- ➤ 01 Ph.D. Pursuing

Administrative/Academic Experiences

➤ Head of the Department (Pharmacy): Jan. 2022-till date

- ➤ Member, Executive Council GGV 2022-till date
- Member, Academic Council, GGV, 2012-2015, 2017, 2022- till date
- ➤ Member academic Planning Board 2022
- ➤ Member, Standing committee GGV, 2013-2015
- ➤ Member, Examination Committee ,2012-2015
- ➤ In-Charge Head of the Department (Forensic Science): Nov. 2016-March 2021
- ➤ Member, Advisory Committee of Equal Opportunity Cell GGV, 2011
- Member, Board of Studies, GGV, 2004, and 2015- till date
- ➤ Member, Department Research Committee 2015-16
- ➤ Member, Project Purchase Committee of Pharmacy 2015-17
- Member, Board of Studies, SoS Interdisciplinary Education and Research, GGV
- ➤ Worked as Central Superintendent of exam, GGV, 2006,2014, 2017-18
- Assistant Superintendent of exam, GGV,2004-2006, 2014-2016
- > In charge, Sessional Examination
- ➤ Member, Discipline committee
- ➤ Member, Antiragging committee 2011, 2012
- > Convener, Admission Committee
- ➤ Appointed Expert of research review committee, CSVTU 2010
- ➤ Reviewer of Indian journal/ foreign related to Pharmacy.
- Member, Verification committee of interview for teaching post
- Member, Scrutiny committee of various subject
- Member, 6th state young scientist congress organized by GGU
- ➤ In-charge, medicinal garden of the Department
- > Member, Local organizing committee of National seminar organized by GGU
- Guiding B. Pharm Students for Project
- ➤ Member, Fact Finding committee of IT GGV 2017
- ➤ Member, Physical verification of Department of GGV 2017-till date
- ➤ Member, technical purchase committee, GGV 2017
- ➤ Cultural Coordinator of the Department 2012-2016
- Member, Library committee, 2018 till date
- > Election officer, In student election 2017-18
- ➤ Appointed Expert of selection committee, CSVTU 2021

Additional Information

- ➤ Coordinator : Organized Skill development Workshops and National seminar
- ➤ Invited speakers 17
- ➤ Attended 02 refresher programmes, 01 SDP, 01 Quality Improvement program and 02 Short Term Training Program.
- ➤ Reviewers of Scientific Journals 04
- ➤ Editorial Board Member of Scientific Journals 06
- ➤ Registered Pharmacist(M.P. Pharmacy council Bhopal)
- ➤ Life Member of The Indian Pharmaceutical Association (IPA)
- ➤ Life Member of The Association of Pharmaceutical teachers of India (APTI)
- ➤ Life Member of The Indian Society of technical education (ISTE)
- ➤ Life Member of the Society of Pharmaceutical education and Research (SPER)
- ➤ Life Member of Society of Pharmacognosy