

FACULTY PROFILE: UMESH K. PATIL



Name	Prof. Umesh K. Patil					Date of Birth: 29-10-1973				
Designation	Professor					Date of holding Present Post			23-09-2016	
Name of the Department and School	Department of Pharmaceutical Sciences					School of Engineering and Technology				
Contact Details	Email :umeshpatil29@gmail.com					Mobile: 9425172165				
Additional Responsibility in the university, if any	- Coordinator, Council for Industry Higher Education Collaboration (CIHEC) - Professor in Charge, Training and Placement-Pharmacy - Member of various programme implementation committees									
Educational Qualifications (UG onwards)	B. Pharm, M. Pharm, Ph.D.									
Research Area/Specialization	Pharmacognosy									
Awards/ Honors / Fellowship Conferred (With details thereof)	- Merit of Excellence Award-2013 by Indian Society of Pharmacognosy (ISP). - Vice President, International Council for Medicinal and Aromatic Plants (ICMAP), [November 2019]									
Summary of Publications (Number only)	Research Papers	22	Books	01	Chapter in Books	01	Seminars/ Conferences Proceedings	40	Projects	01

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs.	Completed/ongoing
1.	Search and Evaluation of some Indigenous Medicinal Plants for Prevention and Management of Alzheimer's disease.	DST-SERB	2 Years	April, 2016	11 Lakh	ongoing

PUBLICATIONS – 2013 onwards :

National Publications (Details of Research Papers) – 2013 onwards:

2013	- Shrivastava T P, Patil U K, Garg S, Singh M A. Divers Pharmacological Significance of Imidazole Derivatives. Research Journal of Pharmacy and Technology. 6(1), 44-50, 2013. ISSN Number: 09743618, Impact Factor: 0.14. - Garg S, Patil U K, Shrivastava T P. Antimicrobial Potential of ViscumarticulumBrm: An Ethnomedicinal Plant. Research Journal of Pharmacy and Technology. 6(6), 649-651, 2013. ISSN Number: 09743618, Impact Factor: 0.14.
2014	- Shukla T, Pandey S P, Patil U K. Formulation of Gastroretentive Floating Drug Delivery System of Indomethacin. Indian Journal of Pharmaceutical Education and Research. 48(2), 41-47, 2014. ISSN Number: 0019-5464, Impact Factor: 0.428. - Singh S N, Patil U K. Solubility and Pre formulation Studies of Non Micronized Piroxicam SEDDS. Journal of Pharmaceutical Research & Clinical Practice. 4(1), 42-52, 2014. ISSN Number: 2231-4237.
2016	Awasthi M, Amin S K A, Shukla V, Jain S, Patil U K, Gayen S. Structural requirements of some derivatives based on natural alkaloid lycorine for their dengue inhibitory activity to accelerate dengue drug discovery efforts. Indian Journal of Natural Products and Resources. 7(3), 221-228, 2016. ISSN Number: 0976-0504, 0976-0512, Impact Factor: 0.57.
2017	S. Bhargava, T. Patel, R. Gaikwad, U.K. Patil & Shovanlal Gayen: "Identification of structural requirements and prediction of Inhibitory activity of natural flavonoids against Zika virus through molecular docking and Monte Carlo based QSAR Simulation", Natural Product Research, In Press, 33(6), 851-857, 2017 (published online: December 2017), 2019. Online ISSN: 1478-6427, Print ISSN: 1478-6419, Impact Factor: 1.999. - B.M. Dinnimath, S.S. Jalalpure, U.K. Patil, Antiulcer activity of natural constituents isolated from Aervalanata. Journal of Ayurveda and Integrative Medicine, 8(4):226-232, 2017. ISSN: 0975-9476. Impact Factor: 1.099.
2019	Vikas Sharma, N. S. Chauhan, Umesh K. Patil and V. K. Dixit: Effect of Vajikaran Rasayana herbs in sexual behavior of old age rats. Indian Journal of Natural Products. 33(1): 24-29, 2019. ISSN: 0970-129X.

International Publications (Details of Research Papers) – 2013 onwards:

2013	- Iyer D, Sharma B K, Patil U K. Isolation of bioactive phytoconstituent from <i>Alpinia galanga</i> L. with anti-hyperlipidemic activity. Journal of Dietary Supplements. 10(4), 309-317, 2013. ISSN Number: 1939-0211, Impact Factor: 1.05. - Patil U K. Ethno-medicinal study of Herbs used by Rural and Tribal community in Betul District of Madhya Pradesh, India. International Journal of Pharmaceutical Sciences and Research. 4 (12), 2013, 4798-4816. ISSN Number: 0975-8232,
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	Impact Factor: 1.11. Iyer D, Patil U K. A preliminary investigation of tumor inhibitory activity of ethanolic leaf extract of <i>Murray akoenigii</i> Linn. in mice. International Journal of Pharmaceutical Sciences and Research. 4(12), 4817-20, 2013. ISSN Number: 0975-8232, Impact Factor: 1.11.
2014	- Patil U K, Saraogi R. Natural products as potential drug permeation enhancer in transdermal drug delivery system. Archives of Dermatological Research. 306(5), 419-26, 2014. ISSN Number: 0340-3696, Impact Factor: 2.327. - Iyer D, Patil U K. Evaluation of antihyperlipidemic and antitumor activities of isolated coumarins from <i>Salvadoraindica</i>. Pharmaceutical Biology. 2014, 52(1), 78-85, 2014. ISSN Number: 13880209, 17445116, Impact Factor: 2.492. - Patil U K and Singh S N. Micronized Piroxicam-Liquid-Filled Dispersion (SEDDS) into Hard Gelatine Capsules: An Approach to Improve Dissolution and Stability of Piroxicam Formulation. International Journal of Pharma Research & Review. 3(7), 20-31, 2014. Impact Factor: 0.675. - Jain S and Patil U K. Effect of <i>Ipomeacarne</i> Jacq. Flowers on hematological changes in toluene diisocyanate-induced inflammation in Wistar rats. Chinese Journal Natural Medicines. 12(3), 161-166, 2014. ISSN Number : 1875-5364, Impact Factor: 1.773. - Iyer D and Patil U K. Efficacy of β-sitosterol isolated from <i>Evolvulus sinoides</i> L. as anti-hyperlipidemic and anti-tumor agent: Evidence from animal studies. Chinese Journal Integrative Medicines. September, 2014. ISSN Number: 1672-0415, Impact Factor: 1.445. - Patil U K, Tripathy M K. Antidiabetic activity of ethanolic extract of Heartwood of Bijasar (<i>Pterocarpus marsupium</i> Roxb.) in streptozotocin-nicotinamide induced type 2 diabetic rats. International Journal of Pharmaceutical Sciences and Research. 5(12), 5572-5577, 2014. ISSN Number: 0975-8232, Impact Factor: 1.11. - Singh S N and Patil U K. Estimation of Non micronized Piroxicam in SEDDS Formulation by HPLC Method. International Journal of Pharma Research & Review. 3(4), 12-19, 2014, ISSN Number: 2778-6074.
2015	- Srivastava A K, Patil U K, Singhai A, Kumar M. Anti-ulcer and Antioxidant Activity of <i>Nelumbo nucifera</i> Gaertn stalks in rats. International Journal of Pharmacy and Pharmaceutical Sciences. 7(3), 368-372, 2015. ISSN Number: 0975-1491, Impact Factor: 0.51. - Jain G, Patil U K. Strategies for enhancement of bioavailability of medicinal agents with natural products. International Journal of Pharmaceutical Sciences and Research. 6(12), 5315-24, 2015, ISSN (Online): 0975-8232, ISSN (Print): 2320-5148, Impact Factor: 0.83.
2017	Siti Nur Ashakirin, Minaketa Tripathy, U.K. Patil and Abu Bakar Abdul Majeed: Chemistry and Bioactivity of Cinnamaldehyde: A Natural Molecule of Medicinal Importance. International Journal of Pharmaceutical Sciences and Research, 2017, 8 (6): 2333-2340, ISSN (Online): 0975-8232, ISSN (Print): 2320-5148, Impact Factor: 0.83.
2018	Mandeep Kumar Singh, Bhriku Kumar Das, Sandeep Choudhary, Deepak Gupta, Umesh K. Patil: Diabetes and hepatocellular carcinoma: A pathophysiological link and pharmacological management. Biomedicine & Pharmacotherapy. 106: 991–1002, 2018, ISSN: 0753-3322 (print); 1950-6007 (web), Impact Factor: 3.743.
Books Published – 2013 onwards	
	U.P. Albuquerque, Umesh Patil, Akos Mathe. Medicinal and Aromatic Plants of South America-Brazil, Springer Nature B.V., Amsterdam, The Netherlands. December 2018. ISBN: 9789402415506.
Chapters in Books – 2013 onwards	
	Umesh K Patil, Garima Jain, Shovan L Gayen. Phytovesicular systems. In Advancement in carrier based drug delivery. Woodhead Publishing Ltd., First Edn., 2019 (In Press).
National Seminar/Conference/Workshops (Attended) – 2013 onwards	
2013	- Invited lecture on "Separation techniques for natural products" in Workshop on separation techniques for natural products, M.P. Council of Science & Technology, Bhopal, 26-28 September, 2013 - Invited lecture on "Metabolomics: Potential tool for evaluation of HMPs" in National Seminar on Drug Scene-2014, National Seminar on Drug Scene-2014, November, 2013.
2014	- Chairperson in 18th Annual Convention of Society of Pharmacognosy on Promotion and Globalisation of Indian Herbal Products- Perspectives and Prospects, Rohtak, 21st February 2014. - Invited lecture on "Current Trends and Challenges in Herbal Drug regulations" in 2nd National Seminar on Drug Scene-2014, Bhagyodaya Tirth Pharmacy College, Sagar, 11-12 November, 2014. - Chairperson and Resource Person in Annual National convention of Association of Pharmaceutical Teachers of India, Pune, 28-30 November, 2014.
2015	- Invited lecture on "Recent Advances in Quality control & Standardization of Herbal products" in National conference on Industry-Academia interaction, Sri Sai College of Pharmacy, Badhani, Pathankot (Punjab), 13-14 February, 2015. - Invited lecture on "Standardization of HMPs with Ethnopharmacology and Metabolomics: A Multidisciplinary Approach for Drug Discovery from Natural Sources" in National Conference Ethno medicine and New Drug Discovery: Opportunity and Challenges, Institute of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), 10-11 April, 2015. - Invited lecture on "Biodiversity and its role in Medicinal Plant Cultivation" in One day Seminar on Challenges in Medicinal Plant Cultivation, Local Chapter of CDACR, Bhubaneswar, 08 June, 2015. - Invited lecture on "Microlearning and its Role in Skill Based Education" in a Symposium on Current Trends and Challenges in Skill Based Education, ISP State Chapter of Orissa, Bhubaneswar, 09 June, 2015.
2016	Chairperson in 20th Annual Convention of Society of Pharmacognosy on Newer Approaches in Development and

	Promotion of Natural Products, Belgaum, 26-27 March, 2016. - Invited lecture on "Challenges in Protocol development for Ethnomedicinal Studies in Symposium on Ethnomedicine and its role in Sustainable Community Development, State Chapter of Indian Society of Pharmacognosy and CDACR, Belgaum, 09 May, 2016. - Invited lecture on Emerging trends & technology in Natural Product Research in National Workshop on Breaking Barriers to Redefine Pharmacognosy, Gujarat State Chapter of ISP, Ahmedabad, 09 July, 2016.
2017	- Invited lecture on "Recent Advances in Quality Control & Standardization of Herbal Medicinal Products in 104th Session of Indian Science Congress, Indian Science Congress Association (ISCA), SV University, Tirupati, 3-7 January, 2017. - Invited lecture on "Integrating Ethno-medicinal and Biochemical-omics data sets to develop and evaluate herbal medicinal products in National Seminar on Recent Advancement in Herbal Medication, Indore Institute of Pharmacy, Indore, M.P., 07 March, 2017. - Chairperson and Invited lecture on "Current trends and challenges in standardization of Herbal Medicinal Products" in 21st Annual Convention of Society of Pharmacognosy on Exploring Herbal Domain: Past, Present and Future of India on Global Map, Government College of Pharmacy, Aurangabad, Maharashtra, 16-17 March, 2017. - Invited expert lecture on "Recent Advances in Quality Control & Standardization of Herbal Medicinal Products" in Workshop on "Modern Practices and Challenges in Quality Assessment of Herbal Products" organized by State Chapter of Indian Society of Pharmacognosy, Belgaum at KLE University, Belagavi (Karnataka) on October 07, 2017. - National Seminar on "Progression in Pharmaceutical Chemistry", organized by Department of Pharmaceutical Sciences, Dr. H.S. Gour University, Sagar, M.P. on 8 December 2017.
2018	- Invited lecture on "Role of Micro-learning in Pharmacy Education" in Workshop-Continuing in Education programme-Challenges and Opportunities to Pharmacy Teachers organized by Indore Institute of Pharmacy, Indore, M.P. on September 1-3, 2018. - Organizing committee member in National seminar on Future India: Science and Technology organized by Indian Science Congress Association-Sagar Chapter, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2018.
2019	Organizing committee member in National seminar on Science and Technology: Rural Development organized by Indian Science Congress Association-Sagar Chapter, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2019.
2020	- Organizing secretary in a workshop on Intellectual Property Rights (IPR) organized by Department of Pharmaceutical Sciences, Dr. HarisinghGour Vishwavidyalaya, Sagar, M.P., on 10 February, 2020. - Steering committee member in National conference on Recent Developments in Pharmaceutical Sciences: Academia-Industry Interaction Initiative organized by Department of Pharmaceutical Sciences, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on March 06-07, 2020.
International Seminar/Conference/Workshops (Attended) – 2013 onwards	
2013	Chairperson in 17th Annual Convention of Society of Pharmacognosy and International Symposium on Frontier in Herbal Cosmetics and Nutraceuticals, Gyaninder Singh Institute of professional studies, Dehradun, Uttarakhand, 23-24 February, 2013.
2014	Invited lecture on "Metabolomics based Investigations on HMPs" in 5th World Congress on Medicinal and Aromatic Plants (WOCMAP)-2014, International Council for Medicinal and Aromatic Plants (ICMAP), Brisbane, Australia, 17-22 August, 2014.
2015	- Chairperson in 19th Annual Convention and International Conference of Society of Pharmacognosy, Andhra University, Vishakhapatnam, A.P., 20-22 March, 2015. - Invited lecture on "Challenges in Modern Pharmacognosy in Pharmacognosy-2015, International Conference, Hyderabad International Convention Centre, Omics International, 26 October, 2015. - Invited lecture on "Metabolomics and ethno-pharmacology: A multidisciplinary approach in novel drug discovery from natural sources Theme: Advanced trends for the future of herbal drugs and its products in 3rd International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products, Hyderabad, 26-28 October, 2015.
2016	Chairperson in International Conference in Pharmaceutical Sciences, with the theme- Innovations in Pharmaceutical Sciences, Aurobindo Institute of Pharmacy, Indore, M.P., 27-28 February, 2016.
2017	- Chairperson in International conference on Interface of Physical, Chemical and Biological Sciences, Dr. HarisinghGour Vishwavidyalaya, Sagar, M.P., 11-13 January, 2017. - Expert talk on "Metabolomics and its role in safety and therapeutic assessment of herbal medicinal products" in laboratory of fundamental of Pharmaceutics, Fakulti of Farmacy, Universiti Teknologi Mara, Malaysia, 26-28 July 2017.
2018	22nd National Convention & International Conference of Indian Society of Pharmacognosy (ISP) on the theme "Integrating Ayurveda & Herbal Drugs for Next Generation Therapeutics & Supplements: Opportunities & Challenges", 20-21st January 2018, Mehsana [As General Secretary of ISP]. - Expert lecture on "Challenges & Opportunities in Nutrition Sensitive Secondary Metabolite Containing Product Development for Maternal and Child Health: Modern Pharmaceutical Perspectives of Functional Foods" in International Workshop on Nutri-sensitive Agriculture and Nutrition Literacy organized by Women and Child Development Department, Govt of Madhya Pradesh on May 14-16, 2018 at Bhopal (M.P.). - Regional Workshop of South Asian Region of International Council for Medicinal and Aromatic Plants (ICMAP) on "Functional Foods and Metabolomics" organized at Avani Atrium, Bangkok (Thailand) on December 2, 2018. - Expert lecture on "Recent Challenges and Advances in Quality control & Standardization of Herbal products" in 6th

	International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products held on December 03-04, 2018 at Avani Atrium, Bangkok, Thailand. International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018.
2019	23rd National Convention of Society of Pharmacognosy and International Conference on New age opportunities and challenges for quality, safety and GMPs in herbal drug development during February 22-23, 2019 at CSIR-NBRI, Lucknow. - A symposium organized during SIXTH WORLD CONGRESS ON MEDICINAL AND AROMATIC PLANTS (WOCMAP-VI) at Famagusta, North Cyprus on November 16, 2019.
2020	Co-Convener of International Conference on Indigenous Knowledge and Prevalent Practices organized by Department of Anthropology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P., on 27-29 February, 2020.
National Seminar/Conference/Workshops (Organised) – 2013 onwards	
2013	Chairperson in 17th Annual Convention of Society of Pharmacognosy and International Symposium on Frontier in Herbal Cosmetics and Nutraceuticals, Gyaninder Singh Institute of professional studies, Dehradun, Uttarakhand, 23-24 February, 2013.
2014	- Chairperson in 18th Annual Convention of Society of Pharmacognosy on Promotion and Globalisation of Indian Herbal Products- Perspectives and Prospects, Rohtak, 21st February 2014. - Chairperson and Resource Person in Annual National convention of Association of Pharmaceutical Teachers of India, Pune, 28-30 November, 2014.
2015	Chairperson in 19th Annual Convention and International Conference of Society of Pharmacognosy, Andhra University, Vishakhapatnam, A.P., 20-22 March, 2015.
2016	- Chairperson in International Conference in Pharmaceutical Sciences, with the theme- Innovations in Pharmaceutical Sciences, Aurobindo Institute of Pharmacy, Indore, M.P., 27-28 February, 2016. - Chairperson in 20th Annual Convention of Society of Pharmacognosy on Newer Approaches in Development and Promotion of Natural Products, Belgaum, 26-27 March, 2016.
2017	- Chairperson in International conference on Interface of Physical, Chemical and Biological Sciences, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P., 11-13 January, 2017. - Chairperson in 21st Annual Convention of Society of Pharmacognosy on Exploring Herbal Domain: Past, Present and Future of India on Global Map, Government College of Pharmacy, Aurangabad, Maharashtra, 16-17 March, 2017. - National Seminar on "Progression in Pharmaceutical Chemistry" 8th December 2017, Department of Pharmaceutical Sciences, Dr. H.S. Gour University, Sagar, M.P.
2020	- Organizing secretary, Workshop on Intellectual Property Rights (IPR) organized at Department of Pharmaceutical Sciences, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P., on 10 February, 2020. 24th National Convention of Society of Pharmacognosy and International Conference on the theme "Phytomedicines for human health: Scope, Challenges and Emerging Trends" organized at Rajamundry (A.P.) on 21st and 22nd February 2020.
International Seminar/Conference/Workshops (Organised) – 2013 onwards	
2018	22nd National Convention & International Conference of Indian Society of Pharmacognosy (ISP) on the theme "Integrating Ayurveda & Herbal Drugs for Next Generation Therapeutics & Supplements: Opportunities & Challenges", 20-21st January 2018, Mehsana [As General Secretary of ISP]. - Regional Workshop of South Asian Region of International Council for Medicinal and Aromatic Plants (ICMAP) on "Functional Foods and Metabolomics" organized at Avani Atrium, Bangkok (Thailand) on December 2, 2018.
2019	23rd National Convention of Society of Pharmacognosy and International Conference on New age opportunities and challenges for quality, safety and GMPs in herbal drug development during February 22-23, 2019 at CSIR-NBRI, Lucknow.
2020	Co-Convener of International Conference on Indigenous Knowledge and Prevalent Practices organized by Department of Anthropology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P., on 27-29 February, 2020.
Research Papers in Proceedings (National Seminar/Conference/Workshops) – 2013 onwards	
2018	- Deepak Gupta and U. K. Patil presented paper on "Novel potential biomarkers for pathogenesis and control of visceral leishmaniasis" in National seminar on Future India: Science and Technology organized by Indian Science Congress Association-Sagar Chapter, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2018. - Manvi Bhatnagar, Neeraj Patel and U.K. Patil presented paper on "Probiotics and prebiotics: Current status and future perspectives on metabolic diseases" in National seminar on Future India: Science and Technology organized by Indian Science Congress Association-Sagar Chapter, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2018. - Devayani Rajput, Riya Sarkar and U. K. Patil presented paper on "Medicinal plants as potential source of antihyperpigmentation agents for management of melasma" in National seminar on Future India: Science and Technology by Indian Science Congress Association-Sagar Chapter, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2018.
2019	Arghya Banik, Kalyan Ghosh, U. K. Patil and S. L. Gayen presented paper on "Anticancer drug discovery from natural compounds: Identification of molecular fingerprints for inhibition of breast cancer resistance protein (BCRP) by Monte Carlo Optimization and Machine Learning Approaches" in National seminar on Science and Technology: Rural

	Development organized by Indian Science Congress Association-Sagar Chapter, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2019. • Devyani Rajput, Swati Sahu and U. K. Patil, presented paper on "Antihyperpigmentation activity of polyherbal cream" in National seminar on Science and Technology: Rural Development organized by Indian Science Congress Association-Sagar Chapter, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2019. • Nancy Jain, Priyanshu Jain and U. K. Patil, presented paper on "Medicinal potentials of boswellic acid" in National seminar on Science and Technology: Rural Development organized by Indian Science Congress Association-Sagar Chapter, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on November 15-16, 2019.
2020	• Deepak Gupta and U. K. Patil presented paper on "Development and characterization of nanoparticulate system for macrophage targeting" in National conference on Recent Developments in Pharmaceutical Sciences: Academia-Industry Interaction Initiative organized by Department of Pharmaceutical Sciences, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on March 06-07, 2020.
Research Papers in Proceedings (International Seminar/Conference/Workshops) – 2013 onwards	
2016	• U.K. Patil presented paper on Effect of Piperine in combination with 4-Hydroxyisoleucine enriched Trigonellafoenum-graecum extract and Silymarin on Paracetamol induced liver damage in rats in Annual National Convention of ISP on Newer Approaches for Development and Promotion of Natural Products, KLE University, Belagavi on 26 March, 2016.
2017	• Garima Jain and U.K. Patil presented paper on "Acetylcholinesterase inhibition activity of secondary metabolites of Plants" in International conference on Interface of Physical, Chemical and Biological Sciences organized by Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on 11-13 January, 2017. • Deepak Gupta and U.K. Patil presented paper on "Potential drug targets for treatment of leishmaniasis" in International conference on Interface of Physical, Chemical and Biological Sciences, Dr.HarisinghGour Vishwavidyalaya, Sagar, M.P. on 11-13 January, 2017.
2018	• Bhaskar K. Gupta and U. K. Patil presented paper on "Formulation and standardization of homeopathic mother tincture of leaves of Gymnemasylvestre" in International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018. • Shuchi Dave Mehta and U. K. Patil presented paper on "Bioactive fractionation of Cassia torra Linn. seeds for antidiabetic potential" in International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018. • Smita Jain, Ashish Jain, U. K. Patil presented paper on "Effect of ethanol extract of Ipomoea carnea Jacq. flowers on hematological changes in toluene diisocyanate induced inflammation in wistarrats" in International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018. • Richa Kankane and U. K. Patil presented paper on "Assessment of anti-diabetic activity of Ventilagocalyculatatul. (bark) in alloxan induced diabetic rats" in International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018. • A. K. Jain, Anki Jain, Ashish Jain and U. K. Patil presented paper on "Development and characterization of soya phosphatidyl choline complex of coumestans from Eclipta alba for the effective management of hepatotoxicity" in International conference on Herbal Medicines: Research and Commerce-Global Perspectives organized by L. M. College of Pharmacy, Ahmedabad, Gujarat, India on December 27-29, 2018.
No. of Patents Filed (with date, title and other details)	
2020	Date of file: 01 April 2020 No.: 202021014497 App. No.: TEMP/E-1/15474/2020-MUM Title: 3-(3-OXOARYL) INDOLE DERIVATIVES AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF Inventors: GAYEN, Shovanlal; PATIL, Umesh Kumar; DAS, Kalpataru; GHOSH, Balaram; PATEL, Tarun; GAIKAWAD, Ruchi
2020	Date of File: 01 April 2020 No.: 202021014498 App. No.: TEMP/E-1/15487/2020-MUM Title: 3-(1H-INDOL-3-YL)-1,3-DIPHENYL PROPAN-1-ONE DERIVATIVES AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF Inventors: GAYEN, Shovanlal; PATIL, Umesh Kumar; DAS,Kalpataru; GHOSH, Balaram; MONDAL, Dipayan
Invited Lectures delivered(Outside University) with title, date and place – 2013 onwards:	
2013	• Invited lecture on "Separation techniques for natural products" in Workshop on separation techniques for natural products, M.P. Council of Science & Technology, Bhopal, 26-28 September, 2013 • Invited lecture on "Metabolomics: Potential tool for evaluation of HMPs" in National Seminar on Drug Scene-2014, National Seminar on Drug Scene-2014, November, 2013.
2014	• Invited lecture on "Metabolomics based Investigations on HMPs" in 5th World Congress on Medicinal and Aromatic Plants (WOCMAP)-2014, International Council for Medicinal and Aromatic Plants (ICMAP), Brisbane, Australia, 17-22 August, 2014. • Invited lecture on "Current Trends and Challenges in Herbal Drug regulations" in 2nd National Seminar on Drug Scene-2014, BhagyodayTirth Pharmacy College, Sagar, 11-12 November, 2014.

2015	- Invited lecture on "Recent Advances in Quality control & Standardization of Herbal products" in National conference on Industry-Academia interaction, Sri Sai College of Pharmacy, Badhani, Pathankot (Punjab), 13-14 February, 2015. - Invited lecture on "Standardization of HMPs with Ethnopharmacology and Metabolomics: A Multidisciplinary Approach for Drug Discovery from Natural Sources" in National Conference Ethno medicine and New Drug Discovery: Opportunity and Challenges, Institute of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), 10-11 April, 2015. - Invited lecture on "Biodiversity and its role in Medicinal Plant Cultivation" in One day Seminar on Challenges in Medicinal Plant Cultivation, Local Chapter of CDACR, Bhubaneswar, 08June, 2015. - Invited lecture on "Microlearning and its Role in Skill Based Education" in a Symposium on Current Trends and Challenges in Skill Based Education, ISP State Chapter of Orissa, Bhubaneswar, 09June, 2015. - Invited lecture on "Challenges in Modern Pharmacognosy in Pharmacognosy-2015, International Conference, Hyderabad International Convention Centre, Omics International, 26October, 2015. - Invited lecture on "Metabolomics and ethno-pharmacology: A multidisciplinary approach in novel drug discovery from natural sources Theme: Advanced trends for the future of herbal drugs and its products in 3rd International Conference and Exhibition on Pharmacognosy, Phytochemistry& Natural Products, Hyderabad,26-28 October, 2015.	
2016	- Invited lecture on "Challenges in Protocol development for Ethnomedicinal Studies in Symposium on Ethnomedicine and its role in Sustainable Community Development, State Chapter of Indian Society of Pharmacognosy and CDACR, Belgaum, 09May, 2016. - Invited lecture on Emerging trends & technology in Natural Product Research in National Workshop on Breaking Barriers to Redefine Pharmacognosy, Gujarat State Chapter of ISP, Ahmedabad, 09July, 2016.	
2017	- Invited lecture on "Recent Advances in Quality Control & Standardization of Herbal Medicinal Products in 104th Session of Indian Science Congress, Indian Science Congress Association (ISCA), SV University, Tirupati, 3-7January, 2017. - Invited lecture on "Integrating Ethno-medicinal and Biochemical-omics data sets to develop and evaluate herbal medicinal products in National Seminar on Recent Advancement in Herbal Medication, Indore Institute of Pharmacy, Indore, M.P.,07March, 2017. - Invited lecture on "Current trends and challenges in standardization of Herbal Medicinal Products in 21st National Convention of Indian Society of Pharmacognosy (ISP) on the theme Exploring Herbal Domain: Past, Present and Future of India on Global Map, Aurangabad, Maharashtra, 16-17th March 2017. - Expert talk on "Metabolomics and its role in safety and therapeutic assessment of herbal medicinal products" in laboratory of fundamental of Pharmaceutics, Fakulti of Farmacy, UniversitiTeknologi Mara, Malaysia, 26-28 July 2017. - Invited expert lecture on "Recent Advances in Quality Control & Standardization of Herbal Medicinal Products" in Workshop on "Modern Practices and Challenges in Quality Assessment of Herbal Products" organized by State Chapter of Indian Society of Pharmacognosy, Belgaum at KLE University, Belagavi (Karnataka) on October 07, 2017.	
2018	- Expert lecture on "Integrating Ayurveda & Herbal Drugs for Next Generation Therapeutics & Supplements" in International Conference organized by Ganpat University, Mehsana (Gujarat) on January 20, 2018. - Expert lecture on "Challenges & Opportunities in Nutrition Sensitive Secondary Metabolite Containing Product Development for Maternal and Child Health: Modern Pharmaceutical Perspectives of Functional Foods" in International Workshop on Nutri-sensitive Agriculture and Nutrition Literacy organized by Women and Child Development Department, Govt of Madhya Pradesh on May 14-16, 2018 at Bhopal (M.P.). - Invited lecture on "Role of Micro-learning in Pharmacy Education" in Workshop-Continuing in Education programme-Challenges and Opportunities to Pharmacy Teachers organized by Indore Institute of Pharmacy, Indore, M.P. on September 1-3, 2018. - Expert lecture on "Recent Challenges and Advances in Quality control & Standardization of Herbal products" in 6th International Conference and Exhibition on Pharmacognosy, Phytochemistry& Natural Products held on December 03-04, 2018 at Avani Atrium, Bangkok, Thailand.	
No. of Ph.D. Awarded:		01
No. of Ph.D. Scholars working:		04
No. of Foreign Visits : 04		
2014	Invited lecture on "Metabolomics based Investigations on HMPs" in 5th World Congress on Medicinal and Aromatic Plants (WOCMAP)-2014, International Council for Medicinal and Aromatic Plants (ICMAP), Brisbane, Australia, 17-22 August, 2014.	
2017	- Regional Meeting of ICMAP at Kuala Lumpur and Expert Lecture on "Metabolomics and its role in safety and therapeutic assessment of Herbal Medicinal Products" organized by Laboratory of Fundamentals of Pharmaceutics at University of Teknologi, Mara, PuncakAlam, Kuala Lumpur (Malaysia) Faculty of Pharmacy on July 26-28, 2017. - Expert talk and workshop conducted on "Techniques of Metabolomics" for Researchers of Laboratory of Fundamentals of Pharmaceutics at University of Teknologi, Mara, PuncakAlam, Kuala Lumpur (Malaysia) Faculty of Pharmacy on July 29-30, 2017.	
2018	- Regional Workshop of South Asian Region of International Council for Medicinal and Aromatic Plants (ICMAP) on "Functional Foods and Metabolomics" organized at Avani Atrium, Bangkok (Thailand) on December 2, 2018. - Expert lecture on "Recent Challenges and Advances in Quality control & Standardization of Herbal products" in 6th International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products held on December 03-04, 2018 at Avani Atrium, Bangkok, Thailand.	
2019	Invited lecture on "Challenges and Advances in Quality Control & Standardization of Herbal Products: An Ethnomedicinal Perspective" in 6th World Congress on Medicinal and Aromatic Plants (VI WOCMAP) 2019, International Council for	

Medicinal and Aromatic Plants (ICMAP), Nicosia, Famagusta, North Cyprus (Turkish Republic), 13-17 November, 2019.	
Memberships in Academic Bodies:	
International Council for Medicinal and Aromatic Plants (ICMAP)	Association of Pharmaceutical Teachers of India (APTI)
International Society for Medicinal Plant Research (GA), Germany	Indian Pharmaceutical Association (IPA)
International Pharmaceutical Students Federation (IPSF), The Netherlands	Indian Pharmacy Graduates Association (IPGA)
International Society of Natural Product Development (ISNPD), Switzerland	Indian Science Congress Association (ISCA)
International Association for the Study of Traditional Asian Medicine (IASTAM)	Madhya Pradesh Pharmacy Graduates Association (MPPGA)
International Pharmaceutical Federation (FIP)	Indian Association of Hospital Pharmacists (IAHP)
International Society of Ethnopharmacology (ISE)	InPharm Association (IPhA)
Indian Society of Pharmacognosy (ISP)	Indian Society for Technical Education (ISTE)
Other Academic Achievements :	
(i) Membership of Editorial Boards: National/ International (With details of the journal(s) and duration)	
Indian Journal of Natural Products [January 2008 to till date]	
ISP News Letters [January 2017 to till date]	
(ii) Reviewer of the Journal(s) (With details of the journal(s) and duration)	
Indian Journal of Pharmaceutical Education and Research (IJPER) [January 2010 to till date]	
3 Biotech-Springer [April 2018 to till date]	
American Botanical Council-Herbal Clips [December 2019 to till date]	
(iii) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)	
Member of BOS-Pharmacy	
Member of School of Engineering and Technology	