



Professor & Deputy Director, Centre for IPR Studies

Maharshi Dayanand University, Rohtak, India

PROFESSIONAL AND ACADEMIC JOURNEY

- Professor and Deputy Director, Centre for Intellectual Property Rights Studies, MDU Rohtak (2025–Present).
- Associate Professor, Department of Microbiology, MDU Rohtak (2022–2025).
- Assistant Professor, Department of Microbiology, MDU Rohtak (2010–2022).
- Visiting Scientist, University of Arkansas, USA (2013–2014).

CORPORATE/INDUSTRIAL EXPERIENCE

- Project Manager, Evalueserve Pvt. Ltd. (2006–2010).
- Business Development Executive, Genetix India Pvt. Ltd. (1999).
- Product Specialist, GE Life Sciences. (1998–1999).

EDUCATION

- Post-Doctoral Research, University of Arkansas, USA.
- Ph.D. in Microbiology, University of Delhi South Campus.
- M.Sc. Biotechnology, Maharshi Dayanand University.
- PG Diploma in Biochemical Technology, University of Delhi.
- B.Sc. Life Sciences, University of Delhi.

SELECTED ACHIEVEMENTS

- Editor-in-Chief, Journal of Commercializable Technologies
- Certified Indian Patent Agent IN/PA-1779
- Empanelled National Felicitator of Patents for Startups
- C.V. Raman Fellowship for Postdoctoral Research in USA.
- Author of Springer Nature book on Lignocellulosic Biomass and Enzymes.
- Technology transfer and patent commercialization experience.
- Coordinator/Manager, Erasmus+ Capacity Building in Higher Education (CBHE) Project – ENPRENDIA (2018–2022)
- Coordinated project activities and collaborations with European partner institutions and participated in consortium meetings, training programs, and study visits at:
 - ✦ University College Dublin, Ireland
 - ✦ Glasgow Caledonian University, United Kingdom
 - ✦ University of Santiago de Compostela, Spain
 - ✦ Instituto Superior Técnico, University of Lisbon, Portugal
 - ✦ Kinderbüro Universität Wien gGmbH Vienna, Austria

PROFESSIONAL AND ACADEMIC JOURNEY

Current Position (Sept. 2025–Present)

- Professor and Deputy Director, Centre for Intellectual Property Rights (IPR) Studies, Maharshi Dayanand University, Rohtak, India
- Responsible for postgraduate teaching and research in microbiology and industrial biotechnology.
- Conducting research on industrial enzymes, lignocellulosic bioprocesses, and bioenergy.
- Managing intellectual property activities, including patent drafting, filing, prosecution, and IP awareness initiatives.
- Promoting innovation, technology transfer, and commercialization activities within the university ecosystem.

ACADEMIC POSITIONS

Associate Professor, Department of Microbiology, Maharshi Dayanand University (2022–2025)

- Taught postgraduate courses in microbiology and biotechnology.
- Supervised M.Sc. and Ph.D. research scholars.
- Conducted research in enzyme technology, bioethanol production, mushroom biotechnology, and environmental biotechnology.
- Published research articles, books, and book chapters in reputed journals and publishers.
- Visiting Scientist, Department of Biological and Agricultural Engineering, University of Arkansas, USA (December 2013 – July 2014)
- Worked on advanced bioprocess engineering and biomass utilization technologies.
- Collaborated on research involving lignocellulosic biomass conversion and biofuel production.
- Gained international exposure to fermentation technology and enzyme applications.

Assistant Professor, Department of Microbiology, Maharshi Dayanand University (2010–2022)

- ✚ Engaged in teaching, research, curriculum development, and student mentoring.
- ✚ Established research programs in industrial enzymes, bioethanol production, and mushroom biotechnology.
- ✚ Guided postgraduate and doctoral students.
- ✚ Secured research projects and contributed to academic administration.

CORPORATE POSITION

Project Manager, Evalueserve Pvt. Ltd., Gurgaon, India (June 2006 – October 2010)

- Led patent analytics and technology intelligence projects in biotechnology, healthcare, and life sciences.
- Conducted patent landscape analysis, prior art searches, freedom-to-operate studies, and technology assessments.
- Served as subject matter expert in:
 - ✚ Industrial Enzymes
 - ✚ Microbiology and Fermentation Technology
 - ✚ Biofuels and Biomass Conversion
 - ✚ Enzyme Purification and Characterization
 - ✚ Recombinant DNA Technology
 - ✚ Gene Cloning and Expression Systems
 - ✚ Recombinant Protein Production

Research Training and Doctoral Work

Doctoral Research, University of Delhi South Campus (July 2001 – June 2006)

- Conducted experimental research for Ph.D. thesis titled: “Biochemical, Molecular Characterization and Application Studies of Laccase from *Cyathus stercoreus*.” Investigated enzyme production, purification, biochemical characterization, molecular studies, and industrial applications of fungal laccase.
- Technical Assistant, DBT-Sponsored Project, University of Delhi South Campus (August 1999 – June 2001)
- Worked on the project: “Cellulase-Free Thermostable and Alkalostable Xylanase for Pulp and Paper Industry.”
- Performed enzyme production, optimization, purification, and characterization studies. Contributed to the development of industrially relevant xylanases for biobleaching applications.

Industrial Marketing Experience

Business Development Executive, Genetix India Pvt. Ltd. (June 1999 – August 1999)

- Promoted molecular biology and biotechnology products from Qiagen, Diversa, and Nunc-Nalgene.
- Provided technical support and interacted with researchers and academic institutions.
- Product Specialist, Amersham Pharmacia Biotech Asia Pacific Ltd. (Presently GE Healthcare) (August 1998 – May 1999)
- Promoted life science instruments, consumables, and molecular biology products.
- Supported researchers and laboratories in selecting suitable technologies and analytical platforms.

Professional Training

National Institute of Immunology (NII), New Delhi (January–April 1997)

- Undertook professional training in Bio-organic Chemistry.
- Project:
- “Purification of Phosphatidyl Inositol from Soybean and Purification of myo-Inositol-1-Phosphate Synthase from Baker’s Yeast.”
- Supervisor: Dr. A. Vishwakarma
- Acquired expertise in enzyme purification and biochemical techniques.

Master’s Dissertation

Institute of Genomics and Integrative Biology (IGIB), New Delhi (January–July 1998)

- Completed M.Sc. dissertation entitled:
- “Clinico-Immunological Studies of Pollen Allergens.”
- Supervisor: Dr. A. B. Singh
- Gained experience in immunological assays and allergy research.

Major Academic and Technological Contributions

- **Authored a Springer Nature Book (2025):** Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications (613 pages), co-authored with Kalavathy Rajan, published by Springer Nature.

- **Technology Commercialization:** Successfully transferred and licensed the technology “Preparation of Rice Bran Protein” to M/s Hauch Ecovations Pvt. Ltd., Ludhiana, India, enabling industrial-scale utilization.
- **Granted Indian Patent:** “Fractionation of Lignocellulosic Biomass for a Biorefinery” (Patent Application No. 201711030982), demonstrating innovation in biomass valorization and biorefinery technologies.

❖ Professional Awards/Merits

- Shortlisted as Patent facilitator for “Start-up India-2016” initiative of Prime Minister Shri Narendra Modi.
- Awarded C.V Raman Fellowship for Post Doctoral Studies in US December, 2013.
- Awarded best poster presentation in international conference of Association of Microbiologists of India. November 17-20, 2013, Maharshi Dayanand University, Rohtak.
- Qualified Indian Patent Agent Examination 2010
- Judged as best presenter in In National conference on “Bio-Diversity: Challenges and Opportunities” on 18 February, 2011, at Maharshi Dayanand University (MDU), Rohtak.
- Honoured with ‘Leadership Award’ for exceptional performance in June-Dec 2009.
- Honoured with ‘Star Performer Award’ for distinguished work capabilities in Jan-Feb 2009 at Evalueserve.
- Awarded J.R.F by Department of Biotechnology, Government of India in the project entitled “Cloning and characterization of laccase/ligninase gene from White-rot fungi”.
- Vice President of Botanical society, Deshbandhu College. (1991-94)
- College Topper of University Examination.

Publications (Reverse Chronological Order)

- Rathi, Deepti; Kapoor, Rajeev Kumar; Maini, Jayant; Sharma, Vineeta; Nandal, Preeti; (2026). Lignocellulose: A sustainable solution to produce high-value molecules. AIP Conference Proceedings, 3387.0(1), 080004.
- Tushir, Surya; Yadav, Deep Narayan; Kapoor, Rajeev Kumar; Bala, Manju; Mann, Sandeep; Kataria, Kashish; (2026). Evaluating the effect of desolventization temperature on de-oiled rice bran properties: insights into flow, rheology, and its pasting behavior. Journal of Food Measurement and Characterization, 20.0(1), 833-846.
- Bhardwaj, Nishi K; Pathak, Puneet; Sango, Chakarvati; Sabharwal, Anshul; Kapoor, Rajeev K; Shukla, Pratyosh; (2025). Evaluation of recycling potential of virgin mixed hardwood pulp treated with cellulase and chemicals. Cellulose Chemistry & Technology, 59.0(9/10), 1081.
- Tushir, Surya; Bala, Manju; Yadav, Deep Narayan; Kapoor, Rajeev Kumar; Kataria, Kashish; (2025). Effect of particle size fractionation and solvent-assisted de-oiling on the physico-chemical properties and protein solubility of rice bran. Indian Journal of Agricultural Biochemistry, 38.0(1), 92-100.
- Pathak, Gaurav; Mangla, Swati; Gupta, Guddu Kumar; Bhan, Veer; Kapoor, Rajeev Kumar; (2025). Toxicological assessment and risk management of nanoparticles mediated composite materials- critical review: state of the art. Discover Polymers, 2.0(1), 12.
- Kapoor, Rajeev Kumar; Rajan, Kalavathy; (2025). Lignocellulosic Biomass and Enzymes.
- Gupta, Guddu Kumar; Coxe, Tallon; Chot, Eetika; Kapoor, Rajeev Kumar; Chhabra, Deepak; Bhardwaj, Nishi Kant; Azad, Rajeev K; Shukla, Pratyosh; (2025). Improved GA-ANN based optimized bio-

deinking strategy for laccase produced from *Trametes versicolor* GGRK18, and its gene co-expression network analysis. JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 13.0(6)

- Kumar, Pradeep; Pragma; Gupta, Puja; (2025). Metabolic/genetic engineering approaches for efficient lignocellulolytic enzyme production. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 85-98.
- Kapoor, Rajeev Kumar; Hafeez, Atifa; Kumar, Sanjay; Mishra, Dhirender; Gupta, Manish Kumar; (2025). Intellectual property rights of medicinal products. Medicinal Biotechnology, 327-341.
- Saini, Nikita; Rawat, Gaurav; Devesh; Gupta, Guddu Kumar; Kapoor, Rajeev Kumar; (2025). Lignocellulolytic Enzymes Used for the Biodeinking of Recycled Waste Paper: A Sustainable Feasibility. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 453-474.
- Pretreatment, Biomass; Rathi, Deepti; Kapoor, Rajeev Kumar; Singh, Preeti; (2025). Applications of Nanotechnology in the Production of Biofuels: Emphasis on Nanomaterials and Lignocellulosic. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 271.
- Saharan, Vicky; Tushir, Surya; Yadav, Monika; Dhaka, Nitika; Kapoor, Rajeev Kumar; (2025). Hydrolysis: Challenges and Future. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications; Springer: Berlin/Heidelberg, Germany, 127.
- Saharan, Vicky; Tushir, Surya; Yadav, Monika; Dhaka, Nitika; Kapoor, Rajeev Kumar; (2025). Optimization of Cellulase Enzyme System for Lignocellulosic Biomass Hydrolysis: Challenges and Future Perspectives. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 127-154.
- Rathi, Deepti; Kapoor, Rajeev Kumar; Singh, Preeti; Nandal, Preeti; (2025). Applications of Nanotechnology in the Production of Biofuels: Emphasis on Nanomaterials and Lignocellulosic Biomass Pretreatment. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 271-294.
- Yadav, Monika; Dhaka, Nitika; Saharan, Vicky; Kapoor, Rajeev Kumar; (2025). Future-Forward: Emerging Methods for Optimizing Lignocellulolytic Enzyme Production from Microorganisms. Lignocellulosic Biomass and Enzymes: Fundamentals, Emerging Technologies and Applications, 99-123.
- Dhaka, Nitika; Yadav, Monika; Saharan, Vicky; Kumar, Sanjay; Kapoor, Rajeev Kumar; (2025). Transformation of lignocellulosic biomass into value-added cellulose nanocrystals and their applications. Lignocellulosic biomass and enzymes: fundamentals, emerging technologies and applications, 295-309.
- Gupta, Guddu Kumar; Coxe, Tallon; Chot, Eetika; Kapoor, Rajeev Kumar; Chhabra, Deepak; Bhardwaj, Nishi Kant; Azad, Rajeev K; Shukla, Pratyosh; (2025). Improved GA-ANN based optimized bio-deinking strategy for laccase produced from *Trametes versicolor* GGRK18, and its co-expression gene network analysis. Journal of Environmental Chemical Engineering, 119688.
- Tushir, Surya; Yadav, Deep Narayan; Kapoor, Rajeev Kumar; Narsaiah, K; Bala, Manju; Wadhwa, Ritika; (2024). Low temperature desolventization: effect on physico-chemical, functional and structural properties of rice bran protein. Journal of Food Science and Technology, 61.0(3), 516-527.
- Raman, Neha; Kumar, Naveen; Saharan, Vicky; Aggarwal, Neeraj K; Rana, Mohit; Kumar, Rajeev; (2024). Optimization of Alkali-catalyzed Pretreatment for the Production of Fermentable Sugars from Wheat Straw: a Response surface Approach.
- Goyat, Nikita; Kapoor, Rajeev Kumar; Saharan, Baljeet Singh; Kapoor, Preksha; Kumari, Kajal; Singh, Namita; (2024). Production, purification and immobilization of laccase from *Trametes versicolor*

HBB 7328 for its role in decolorization of textile dyes. Indian Journal of Microbiology, 64.0(4), 1870-1883.

- Goyat, Nikita; Kapoor, Rajeev Kumar; Saharan, Baljeet Singh; Kapoor, Preksha; Dhanda, Deepika; (2024). Optimizing mycelial growth of *Trametes versicolor* HBB 7328 for enzyme production and green energy. Academia Green Energy, 1.0(2)
- Saharan, Vicky; Tushir, Surya; Singh, Jagdeep; Kumar, Naveen; Chhabra, Deepak; Kapoor, Rajeev Kumar; (2024). Application of MOGA-ANN tool for the production of cellulase and xylanase using de-oiled rice bran (DORB) for bioethanol production. Biomass Conversion and Biorefinery, 14.0(11), 11987-11999.
- Rasgania, Jyoti; Gavadia, Renu; Sahu, Neetu; Sharma, Pinki; Chauhan, Nar S; Saharan, Vicky; Kapoor, Rajeev K; Jakhar, Komal; (2024). Design, synthesis and exploration of novel triazinoindoles as potent quorum-sensing inhibitors and radical quenchers. Future Medicinal Chemistry, 16.0(5), 399-416.
- Gupta, Guddu Kumar; Koli, Devesh; Kapoor, Rajeev Kumar; (2024). Statistical optimization for greener synthesis of multi-efficient silver nanoparticles from the *Hypocrea lixii* GGRK4 culture filtrate and their ecofriendly applications. Frontiers in Nanotechnology, 6.0, 1384465.
- SAHARAN, BS; GOYAT, N; KAPOOR, RK; KAPOOR, K; DHANDA, D; (2024). OPTIMIZING MYCELIAL GROWTH OF *TRAMETES VERSICOLOR* HBB 7328 FOR ENZYME PRODUCTION AND GREEN ENERGY. ACADEMIA GREEN ENERGY Учредители: Academia. edu
- Gupta, Guddu Kumar; Kapoor, Rajeev Kumar; Chhabra, Deepak; Bhardwaj, Nishi Kant; Shukla, Pratyosh; (2024). Synergistic effect of cellulose-xylanolytic and laccase enzyme consortia for improved deinking of waste papers. Bioresource Technology, 408.0, 131173.
- Gupta, Guddu Kumar; Kapoor, Rajeev Kumar; (2024). Recent advances in eco-friendly technology for decontamination of pulp and paper mill industrial effluent: A review. Environmental Monitoring and Assessment, 196.0(3), 275.
- Singh, Preeti; Dhankhar, Jyotika; Kapoor, Rajeev Kumar; Kumar, Dharendra; Bhatia, Saurabh; Al-Harrasi, Ahmed; Sharma, Asha; (2023). *Ficus benghalensis*—A comprehensive review on pharmacological research, nanotechnological applications, and patents. Journal of Applied Pharmaceutical Science, 13.0(10), 059-082.
- Chamoli, Shivangi; Singh, Amrita; Kapoor, Rajeev Kumar; Singh, Surender; Singh, RK; Saini, Jitendra Kumar; (2023). Purification and characterization of laccase from *Ganoderma lucidum* and its application in decolorization of malachite green dye. Bioresource technology reports, 21.0, 101368.
- TUSHIR, SURYA; BALA, MANJU; YADAV, DN; KAPOOR, RAJEEV; MANN, SANDEEP; NARSAIAH, K; (2023). Rice Bran: Valorization Approaches and Nutritional Dimensions. Indian J Agric Biochem, 36.0(2), 111-119.
- Mishra, Sugandha; Sharma, Asha; Dutta, Amit Kumar; Kapoor, Rajeev Kumar; Jha, Dilip Kumar; Kumar, Dharendra; (2023). An introduction to current and future aspect on growth promoting microbiome. Plant-Microbe Interaction-Recent Advances in Molecular and Biochemical Approaches, 87-110.
- SINGH, P; DHANKHAR, J; SHARMA, A; KAPOOR, RK; (2023). NANOBIOREMEDIATION: A POTENTIAL AND SUSTAINABLE STRATEGY TO COMBAT ENVIRONMENTAL POLLUTION. SCAFFOLD PRESS BOOKS Учредители: The Applied Biology & Chemistry Journal
- Singh, Preeti; Kapoor, Rajeev Kumar; Kumar, Dharendra; Bhatia, Saurabh; Al-Harrasi, Ahmed; Sharma, Asha; (2023). Online First.
- Singh, Preeti; Dhankhar, Jyotika; Kapoor, Rajeev Kumar; Sharma, Asha; (2023). A comparative study on GC-MS analysis and antimicrobial activity of bioactive compounds present in aerial parts (leaf and fruit) of *Ficus benghalensis* L.. Journal of Applied and Natural Science, 15.0(2), 870.

- Gupta, Guddu Kumar; Pathak, Gaurav; Shukla, Pratyosh; Kapoor, Rajeev Kumar; (2023). Bioresources, environmental aspects, and patent scenario for biobleaching in pulp and paper industry. *Microbial Bioprocesses*, 299-318.
- Gupta, Guddu Kumar; Dixit, Mandeep; Pandey, Dharini; Kapoor, Rajeev Kumar; Kango, Naveen; Shukla, Pratyosh; (2023). Microbial enzyme bioprocesses in biobleaching of pulp and paper: technological updates. *Microbial Bioprocesses*, 319-337.
- 2022
- Gupta, Guddu Kumar; Dixit, Mandeep; Kapoor, Rajeev Kumar; Shukla, Pratyosh; (2022). Xylanolytic enzymes in pulp and paper industry: new technologies and perspectives. *Molecular biotechnology*, 64.0(2), 130-143.
- Dixit, Mandeep; Gupta, Guddu Kumar; Yadav, Monika; Chhabra, Deepak; Kapoor, Rajeev Kumar; Pathak, Puneet; Bhardwaj, Nishi K; Shukla, Pratyosh; (2022). Improved deinking and biobleaching efficiency of enzyme consortium from *Thermomyces lanuginosus* VAPS25 using genetic Algorithm-Artificial neural network based tools. *Bioresource technology*, 349.0, 126846.
- Kumar, Sanjay; Singh, Sawraj; Kapoor, Rajeev Kumar; (2022). Microbial melanin: role, biosynthesis, and applications. *Microbial Products*, 25-34.
- Pathak, Puneet; Sango, Chakarvati; Sabharwal, Anshul; Kapoor, Rajeev; Shukla, Pratyosh; Bhardwaj, Nishi Kant; (2022). Cellulase-assisted deinking approach for the recycling of mixed office waste papers and its quality improvement.
- Kapoor, Rajeev; Ahuja, S; Kadyan, V; (2021). DEVELOPMENT OF PREDICTION MODEL USING MACHINE LEARNING FOR VECTOR BORNE DISEASES IN INDIA.
- Mehta, Lovekesh; Dhankhar, Rakhi; Gulati, Pooja; Kapoor, Rajeev Kumar; Mohanty, Aparajita; Kumar, Sanjay; (2020). Natural and grafted cyclotides in cancer therapy: an insight. *Journal of Peptide Science*, 26.0(4-5), e3246.
- Makkar, Vanshika; Kamboj, Mala; Narwal, Anjali; Kapoor, Rajeev Kumar; (2020). Potency of Pfeiffer's crystallization to analyze oral leukoplakia and squamous cell carcinoma. *Asian Pacific journal of cancer prevention: APJCP*, 21.0(2), 517.
- Gupta, Guddu Kumar; Kapoor, Rajeev Kumar; Shukla, Pratyosh; (2020). Advanced techniques for enzymatic and chemical bleaching for pulp and paper industries. *Microbial enzymes and biotechniques: interdisciplinary perspectives*, 43-56.
- Dhankhar, Rakhi; Gupta, Vatika; Kumar, Sanjay; Kapoor, Rajeev Kumar; Gulati, Pooja; (2020). Microbial enzymes for deprivation of amino acid metabolism in malignant cells: biological strategy for cancer treatment. *Applied Microbiology and Biotechnology*, 104.0(7), 2857-2869.
- 2019
- Singh, Jagdeep; Kumar, Punit; Saharan, Vicky; Kapoor, Rajeev Kumar; (2019). Simultaneous laccase production and transformation of bisphenol-A and triclosan using *Trametes versicolor*. *3 Biotech*, 9.0(4), 129.
- Megha Kaushik, Megha Kaushik; Sanjay Kumar, Sanjay Kumar; Kapoor, RK; Pooja Gulati, Pooja Gulati; (2019). Integrons and antibiotic resistance genes in water-borne pathogens: threat detection and risk assessment.
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- Dhankhar, Rakhi; Gulati, Pooja; Kumar, Sanjay; Kapoor, Rajeev Kumar; (2018). Arginine-lowering enzymes against cancer: a technocommercial analysis through patent landscape. *Expert Opinion on Therapeutic Patents*, 28.0(8), 603-614.
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- Singha, Tapan Kumar; Gulati, Pooja; Mohanty, Aparajita; Khasa, Yogender Pal; Kapoor, Rajeev Kumar; Kumar, Sanjay; (2017). Efficient genetic approaches for improvement of plasmid based expression of recombinant protein in *Escherichia coli*: A review. *Process Biochemistry*, 55.0, 17-31.
- Pannu, Jagdeep Singh; Kapoor, Rajeev Kumar; (2015). The green blood" wheatgrass juice, a health tonic having antibacterial potential. *World Journal of Pharmaceutical Research*, 4.0(3), 46-54.
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- Kapoor, Rajeev Kumar; Rajan, Kalavathy; Carrier, Danielle Julie; (2015). Applications of *Trametes versicolor* crude culture filtrates in detoxification of biomass pretreatment hydrolyzates.. *Bioresource Technology*, 189.0, 99-106.
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- Vasdev, Kavita; Dhawan, Shikha; Kapoor, Rajeev Kumar; Kuhad, Ramesh Chander; (2005). Biochemical characterization and molecular evidence of a laccase from the bird's nest fungus Cyathus bulleri. Fungal Genetics and Biology, 42.0(8), 684-693.
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Research Project (s) awarded

- Optimizing Production of Laccase Enzyme from Selected White-Rot Fungi and Developing a Process for the Degradation of Endocrine Disruptors. UGC, Rs.10.39 lakhs
- Screening and Isolation of Microbial Strains for Inulinase Production from Haryana UGC
- As Co-PI, Process development for the cost effective production of fungal endoglucanase, lipase and amylase for deinking of newsprints and mixed office waste papers Rs. 62.91 Lakhs.
- As Manager, Erasmus+ Capacity Building in Higher Education-“Enhancing female entrePREneurship in InDIA (ENPRENDIA)” Project No: 597932-EPP-1-2018-1-IN-EPPKA2-CBHE-JP (2018-3768/001-001)
- Empowering Women and Cultivating Sustainability in Haryana through a Mini Mushroom Cultivation Plant for the session 2024–25 under the Chaudhry Ranbir Singh Institute of Social and Economic Change (CRSI&EC).
- Consultancy Project for Development of “Pressure Bioreactor for Wastewater Treatment”

Details of Extension lecture(s) delivered with topic, date and place.

- Resource Person: Two Week Interdisciplinary Refresher Course (Online) on “Basics of Research Methodology”, conducted by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi, from 08th–22nd March, 2025. (National)
- Presentation: “Technological Innovations and Patent Trends at MDU Rohtak: A Departmental Perspective” presented at the National Seminar on “Multidisciplinary Research in Science” organized by the Department of Zoology, Maharshi Dayanand University, Rohtak, on 22nd April, 2025. (National)
- Presentation: “Patent Landscape Study on Hyaluronic Acid and its Diverse Applications” presented at the Centre for Bioinformatics, Maharshi Dayanand University, Rohtak, on 25th April, 2025. (National)
- Resource Person: Refresher Course on “Academic Ethics” conducted by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, in collaboration with Miranda House, University of Delhi and the Department of Commerce, Hansraj College, on 12th July, 2025. (National)

- Patentability Assessment and Structuring a Patent Impact lecture session entitled: "An overview of Intellectual 13 th July, 2022 Conducted by Lloyd Institute of Management & Technology, Greater Noida
- National Biodiversity Act and its implications on Patents One-week UGC- STRIDE workshop on "Microbial Metabolites: Biotechnological Advances" 14 th to 19 th February 2022 Organized by Department of Microbiology, MD University, Rohtak and UGC-STRIDE Programme.
- Fermentation technology for commercial production of enzymes Online certificate course on Microbiological and Biological techniques used in Industries 11-20 January , 2022 ICAR-CIPHET, Ludhiana
- Developing a culture of Patenting in Academia A series of lectures on 2 nd July, 2021 ICAR-DPR, Hyderabad
- Entrepreneurial ideas from Microbiology Extension Lectures 07/03/2021 Department of Microbiology, Chaudhary Bansi Lal University, Bhiwani
- Biochemistry lab experiments exercise One- week National online Workshop in applied sciences, organized by Department of Microbiology, Nizam College, Osmania university, Hyderabad 24-30 July, 2020 -- National
- Resource person Faculty Development Programme on 'Enhancement of Knowledge 25/05/2020 to 26/05/2020 Department of Botany, PSGR Krishnammal College for Women, Coimbatore.
- Stimulating Academic Patenting and Entrepreneurship in a University Ecosystem Intellectual Property Rights: Protection of Intellectual Property and Way forward May 22-23, 2020
- Intellectual Property Rights cell, Veer Bahadur Singh Purvanchal University, Jaunpur- 222003
- Utilization of agro biomass as a source of additional income Model Training Course on 'Novel processing technologies for enhancement of income in production catchment' 26/11/ 2019 to 03/12/2019 Organized by ICAR-central institute of Post-Harvest Engineering and Technology, Ludhiana.
- The role of science in developing a prosperous nation -- 30 August, 2019 Organized by Kautilya Govt. Sarvodaya Bal Vidyalaya, New Delhi- 110048
- Dr. Rajeev Kumar Kapoor, Session-I Career Prospects for students pursuing their degrees in various disciplines of Life Sciences. Session-II Patent Application: drafting and Filing. Sri Pratap College Srinagar, NAAC re-accredited grade -a, cluster university Srinagar, M. A. Road Srinagar, 20-21st November, 2017.
- Dr. Rajeev Kumar Kapoor, How to protect plant varieties. DBT Sponsored Short Term Training Course on Plant Transgenic Technologies, 1-16th October, 2014. Organized by Department of Biotechnology, Maharshi Dayanand University, Rohtak (Haryana).
- Dr. Rajeev Kumar Kapoor, National Level Summit on Management and Biotechnology Corporate Orientation, Saturday, 20th September, 2014. Organized by Department of Biotechnology, GVM girls collage, Sonipet (Haryana).
- Advanced Instrumentation in Biological Engineering BENG 5103, 3rd April, 2014, at White Engineering Hall, Department of Biological and Agricultural Engineering University of Arkansas, USA
- 'Intellectual Property and Generating Research Ideas using Patent landscaping" on April 10, 2014. RALPH E. MARTIN DEPARTMENT OF CHEMICAL ENGINEERING, University of Arkansas, USA.
- International Panelist and resource person in the panel discussion on 'Entrepreneurship in Engineering' held at White Engineering Hall, Department of Biological and Agricultural Engineering, University of Arkansas, USA on February 17th 2014.

- Creating and Protecting Intellectual Assets on March 17, in Room D-2, Food Science building, 2650 N. Young Ave University of Arkansas, USA

Patent Analytics and Technology Intelligence Experience

Type of Study / Service	Approximate Number of Studies
Novelty / Patentability Search	120
Patent Drafting Support	60
Invalidity / Validity / Opposition Search	80
Freedom-to-Operate (FTO) Search	90
Patent Landscape / State-of-the-Art Search	50
Chemical Structure Search	4
Patent Paralegal Support (Sequence Verification)	2
Biosequence Search (Nucleic Acid and Amino Acid)	40
Non-Patent / Scientific Literature Search	80
Patent Monitoring / Technology Watch Services	5
Document Discovery Search (Laboratory Notes)	1
Total Patent and Technology Intelligence Studies	532

Scholastic Achievements

- Topped the Delhi University examinations during Bachelors of Science degree
- Awarded J.R.F by Department of Biotechnology, Government of India in the project entitled "Cloning and characterization of laccase/ligninase gene from White-rot fungi".

Referees/Research Collaborators

Prof. Danielle Julie Carrier, PhD
Department of Biological and Agriculture
Engineering
University of Arkansas,
Fayetteville AR, USA
carrier@uark.edu

Dr. Kalavathy Rajan
Assistant Professor of Circular Bio-products,
Fiber and Biopolymer Research Institute,
Department of Plant and Soil Science, Texas
Tech University, Lubbock, TX
krajan@ttu.edu

Prof. R.C. Kuhad
Dept. of Microbiology
University of Delhi
Delhi-110022 India
kuhad@hotmail.com

Prof. T. Satyanarayana
Dept. of Microbiology
University of Delhi
New Delhi-110022 India
tsnarayana@vsnl.net

Prof. Rup Lal
Dept. of Zoology
University of Delhi Delhi-110007
India
ruplal@hotmail.com