NAME	Dr. Deepshikha Pande Katare	
DESIGNATION	Professor, Deputy Director & Centre Head	
EMAIL ID	dpkatare@amity.edu	
CONTACT NUMBER	120-4392410	
Scholarly Achievements: **ORCID-ID: 0000-0002-1881-3566.** **Google Scholar ID:** **https://scholar.google.co.in/citations?user=S-9bAecAAAAJ&hl=enWe** **Scopus ID : 54399844200**	H-index: 27 I-10: 54 Total Citations: 2650	
RESEARCH INTERESTS	Medical Biotechnology; Proteomics for biomarker discovery in Hepatocellular carcinoma, lung cancer, Neurodegenerative diseases, type III Diabetes, Novel drug delivery & drug targeting in cancer, Alzheimer's, Parkinson's, Epilepsy, Type II & III Diabetes	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
Rani Durgawati University, Jabalpur, M.P.	B.Sc	1989
Barkatullah University Bhopal, MP Hamdard	M.Sc. Genetics Ph.D.	1991
University, New Delhi	Biotechnology	1996

EXPERIENCE (in chronological order)

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Professor, Deputy Director & Centre Head	Administration, Research & Teaching	Centre for Medical Biotechnology, Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida	July 2022-till date
Professor, Assistant Director & Centre Head	Administration, Research & Teaching	Centre for Medical Biotechnology, Amity Institute of Biotechnology, AUUP, Noida	April 2014-June 2022
Professor & Assistant Director	Administrati on, Teaching & Research	Amity Institute of Biotechnology, AUUP, Noida	Sept 2011- April 2014
Professor , Assistant Director &	Teaching & Research	Amity Institute of Pharmacy, AUUP, Noida	Feb 2010-Aug 2011

Head Pharm Biotech			
Assistant Professor, Assistant Director & Head Pharm Biotech	Teaching & Research	Amity Institute of Pharmacy, AUUP, Noida	Sept, 2004- Sept 2007
Sr. Lecturer & WOS (A) Scientist	Teaching & Research	Department of Biotechnology, Hamdard University, New Delhi	Sept, 2004- Sept 2007
Lecturer	Teaching & Research	Department of Biotechnology, Hamdard University, New Delhi	Oct 2002-Sept 2004

Lecturer (InterFaculty)	Teaching	Faculty of Pharmacy, Hamdard University, New Delhi	Jan, 2002-Sept 2007
Research Associate (Independent; CSIR)	Research & Teaching	Department of Biotechnology, Hamdard University, New Delhi	Jan.1997- Dec.2001
Research Scientist Research	Research	Dept. of Natural Products, National Institute of Pharmaceutical Research (NIPER), Mohali, Chandigarh	Jan.1998- Dec 1998

No. of Ph.D. students supervised	Awarded: (no. only) : **23**
	Ongoing: (no. only) : **04**
No of M. Pharm Supervised	**Awarded 48**
No of M. Tech/M.Sc Supervised	**Awarded 72**
Administrative Experience	• **Administrative work: Total Experience 24 years of Administration as Assistant Director, Deputy Director & Officiating Director** • **Deputy Director: 2022-till date** • **Assistant Director: 2008-2022** • **Officiating Director AIHA 2018-2019**: Administration of all Processes • **Centre Head of Medical Biotechnology: 2015- till date** • **National Committees:** ♦ Peer Review Team Member of **NAAC GOI** have visited 02 Universities for accreditation since 2022 till date ♦ Task force Member: **TDB DST, 2016-2018** ♦ Vision Group Member **UPCST, 2022 till date** ♦ DRC Member of ACC; External DRC Member of **Hamdard University, New Delhi, 2016-2024** ♦ External Examiner of **DIPSARU, New Delhi, 2022-2024** ♦ **Project Reviewer at National Science Centre Poland, 2024** • **University Committee** ♦ Member of Academic Council

	♦ QAE Member & IQAC Coordinator of AIB, Member Secretory Domain IQAC ♦ Member of University Ethic Committee, ♦ Member of Biosafety Committee, DRC, BOS ♦ Chairperson: PROAC, SRC ♦ Core committee member NAAC accreditation team, WASCU, IACBE for the University Other Duties ✓ Chairperson Purchase & Repair Committee of AIB ✓ IQAC Coordinator of AIB till 2023 ✓ Mentor ✓ Lab and Nonteaching Staff Coordination ✓ Mentoring ✓ DRC Member of AICCRS ✓ FRC Member ✓ DRC Member of AINST ✓ BOS Member of AIVI, AINN ✓ SRAC Member, Faculty of Pharmacy, Hamdard University ✓ DRC Member Faculty of Science Hamdard University
PUBLICATIONS ***(mention total no. here)*** Research Papers: 107 Book Chapter : 38 Abstract Published: 154 Invited Lectures: 64	**Research Papers/Book Chapters/Books Published: Total Papers:133 (102 Research papers & 31 Book Chapters); (Cumulative Impact factor: 531.47); Total Citations: 2650; h-index: 27; i10:54.** **03 Textbooks Published & 01 Accepted** 1. Dr. Gregory A. Roth et al., Deepshikha Pande Katare et al., (2025). Global, Regional, and National Burden of Cardiovascular Diseases and Risk Factors in 204 countries and territories, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. JACC (Journal of the American College of Cardiology**) (IF: 21.7)** (Accepted). 2. VL Feigin, T Vos, BS Nair, SI Hay, Deepshikha Pande Katare, YH Abate et.al.(2025) Global, regional, and national burden of epilepsy, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. - The Lancet Public Health, 10 (3), e203-e227 **(IF: 25.5).** 3. M Sikander, S Malik, SK Jain, DP Katare, MM Yallapu, SC Chauhan, **(2025).** Simultaneous expression of MUC13 and N-Myc contributes to diethylnitrosamine-induced hepatocellular carcinoma in rats, Cancer Research 85 (8_Supplement_1), 5700-5700, **(IF: 12.7)** 4. Valery L Feigin, Melsew Dagne Abate, Yohannes Habtegiorgis Abate, Samar Abd ElHafeez, **Deepshikha Pande Katare**, Demelash Areda **et.al.,** Global, regional, and national burden of stroke and its risk factors, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021**, 23 (10): 973-1003, (IF:46.5)** 5. Nitu Dogra, Ruchi Jakhmola Mani, **Deepshikha Pande Katare (2024).** Tiny Carriers, Tremendous Hope: Nanomedicine in the

Fight against Parkinson's. Journal of Dementia and Alzheimer's Disease, vol1 (1): 3-21.

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9. R Singh, S Shukla, S K Shukla & **Deepshikha Pande Katare (2024).** Chemical profiling of endangered Citrus macroptera leaf extracts and evaluation of its cytotoxic activity. Plant Science Today. https://doi.org/10.14719/pst.3044.
10. S Asthana, A Sharma, **Deepshikha Pande Katare (2024).** Greening India's fuel: bacillus velezensis daa1, a game-changer in sustainable lipid synthesis for bioenergy. Journal of microbiology, biotechnology and food sciences, Vol 13 (6): e10729-e10729.
11. Ravina Yadav, Ruchi Jakhmola Mani, Arun Kumar, Saif Ahmad, **Deepshikha Pande Katare (2024).** Comprehending the rationale for repurposing Type 2 Diabetes Mellitus medications for Alzheimer's Disease patients via gene network studies and its associated molecular pathway. Biomedical and Pharmacology Journal volume 17, issue 2): 1847-1874 (IF: 1.03).
12. Ruchi Jakhmola-Mani, Vikash Sharma, Sohini Singh, Tanu Allen, Nitu Dogra, **Deepshikha Pande Katare (2024).** Drug Repurposing and Molecular Insights in the Fight Against Breast Cancer. Biomedical and Pharmacology Journal,17 (2) :831-861.
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14. Ruchi Jakhmola Mani, Nitu Dogra, **Deepshikha Pande Katare (2023).** The Connection between Chronic Liver Damage and Sporadic Alzheimer's Disease: Evidence and Insights from a Rat Model. Brain Science, 13 (10): 1391-1397. (IF:3.33)
15. Ruchi Jakhmola Mani, Mridul Anand, Kritie Agarwal, Avi Tiwari, Qazi Amanur Rahman Hashmi, Tumul Vikram Singh,

Potshangbam Nongdam, **Deepshikha Pande Katare,** Angamba Meetei Potshangabam **(2023).** A Systematic Review of Molecular Pathway Analysis of Drugs for Potential Use in Liver Cancer Treatment. **Drugs and Drug Candidates**,2: 210-231.

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20. Shabnam Malik, Mohammed Sikander, Swatantra K Jain, Deepshikha P Katare, Subhash C Chauhan, Meena Jaggi (2022). High Expression of MUC13 Is Associated with Tumor Development in Chemically Induced Hepatocellular Carcinoma. International Journal of BioLife Sciences (IJBLS) 3: 192-196 DOI: 10.22034/JBS.2022.162524.
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	24. N Dogra, RJ Mani, **Deepshikha Pande Katare (2021).** The gut-brain axis: Two ways signaling in Parkinson's disease. ***Cellular and Molecular Neurobiology***, 1-18 **(IF: 5.046)** 25. N Dogra, D Nagpal, V Aeri, S Ahmad, **Deepshikha Pande Katare (2021)**. Evaluating the Synergistic Effect of Mucuna purines Extract and Sesame Oil

Against the Parkinson's Disease Zebrafish Model: In- Vivo/In-Silico Approach. ***All Life*** (Accepted) **(IF: 3.237)**.

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Katare, (2020). Protein interaction studies for understanding the tremor pathway in Parkinson's disease. ***CNS & Neurological Disorders Drug Targets*** PMID: 32888283. **(IF: 4.388).**

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37. M. Ilyas, **Deepshikha Pande Katare** & V. Aeri **(2020)**. Densitometric validation of phyllanthin, oleanolic acid, and betulinic acid in *Phyllanthus maderaspatensis linn* by high-performance thin layer chromatography. ***Pharmacognosy Magzine***. DOI: 10.4103/0973-1296.251402. **(IF: 1.07).**

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39. **Deepshikha Pande Katare**, Ruchi Jakhmola Mani **(2020)**. Molecular Mechanisms behind Initiation of Focal Seizure in Temporal Lobe Epilepsy: Computational Study. Neurodegenerative Diseases-Molecular Mechanisms and Current Therapeutic Approaches. Intech Open. DOI 10.5772/Intechopen.92846.

40. G Sharma, M Sahu, A Kumar, AK Sharma, V Aeri, **Deepshikha Pande Katare (2019**). Temporal dynamics of pre and post myocardial infarcted tissue with concomitant preconditioning of aerobic exercise in chronic diabetic rats. ***Life Sciences*** 225, 79-87**. (IF:**

3.65)

41. M Asad, S Wajid, **Deepshikha Pande Katare**, RJ Mani, SK Jain **(2019).** Differential Expression of TOM34, AL1A1, PADI2 and KLRBA in NNK Induced
Lung Cancer in Wistar Rats and their Implications. ***Current cancer drug targets.*****DOI:** 10.2174/1871525717666190717162646 **(IF: 3.428).**

42. S Saxena, S Singh, S Bawa, **Deepshikha Pande Katare (2019).** A New Pharmacological model for Hepatocellular carcinoma in Channa Punctatus and its Pharmaco networking studies. ***Research Journal of Pharmacy and Technology*** 12 (7), 3559-3563. Scopus.

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44. **Deepshikha Pande Katare,** Shabnam Malik, Ruchi Jakhmola Mani, Maryam Ranjpour & SK Jain **(2018)**. Novel Mutations in Transthyretin Gene Associated With Hepatocellular Carcinoma. ***Molecular Carcinogenesis.*** 57 (1), 70-77. (**IF: 3.825)** .

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Das **Deepshikha Pande Katare (2018).** Sustained Release Tablets of Sorafenib-Silibinin Combinations for the Treatment of Hepatocellular Carcinoma. ***International Journal of Applied Pharmaceutics*** 10 ((5)), 117-124.

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(2013) Neuroproteomics: progress in biomarker discovery for neurodegenerative diseases. International Journal of Pharm. Pharmaceutical Sciences. 5 (3): 14-22. ISSN No-0975-1491-2012. Indexed: Scopus. **(IF:1.59).**

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8. Mani, Ruchi Jakhmola, Singh, Suyashi, Sonu, Subham, **Deepshikha Pande Katare,** (2025). Tech-Driven Harvest: Blockchain's Role in Sustainable Food Systems and Waste-Free Future, ***Blockchain and Digital Twin Applications in Smart Agriculture***, **Publisher,** CRC Press, Scopus, **DOI:** 10.1201/9781003507390-13, Pages 215 – 236.
9. Mani, Ruchi Jakhmola, Masood, Saba, Bhalerao, Piyush , **Deepshikha Pande Katare,** (2025). Smarter Yields, Sustainable Practices: Predictive Modelling for Informed Decision Making in Smart Farming. In: ***Blockchain and Digital Twin Applications in Smart Agriculture*** , CRC Press, Scopus, Pages 192 – 214, **DOI** 10.1201/9781003507390-12.
10. Deepshikha Pande Katare Ruchi Jakhmola Mani, Yusra Ashfaque Ali, Snigdha Bhattacharjee, Prathum Pathak **(2024)**. Exploring the Role of Natural Learning Processing in Alzheimer's Disease Research and Prediction, 350-363.
11. S Saxena, G Singh, DP Katare **(2024).** Electrochemical Exfoliation a Green Approach: Waste to Wealth, Electrochemical Exfoliation of Graphene and Its Derivatives: Commercial Applications, Pages, 137-159. Publisher Springer Nature Singapore.
12. Tumul Vikram Singh, Qazi Amanur Rahman Hashmi, Nitu Dogra, Ankur Saxena, Deepshikha Pande Katare, Ruchi Jakhmola Mani **(2024).** 16 Critical Analysis of Current Healthcare Applications for

Diagnosis of Diseases. Handbook of AI-Based Models in Healthcare and Medicine: Approaches, Theories, and Applications, CRC Press, pp: 303-315.

13. Yusra Ashfaque Ali, Prathum Pathak, Nitu Dogra, Angamba Meetei Potshangbam, Shikha Tuteja, Deepshikha Pande Katare, Snigdha Debashis Bhattacharjee, Muhammad Ashraf Hussain, Ruchi Jakhmola Mani **(2024).** Exploring the Role of Natural Learning Processing in Alzheimer's Disease Research and Prediction. AI-Driven Alzheimer's Disease Detection and Prediction, Pages:419-432.
14. Rishita Singh, Ravina Yadav, Ruchi Jakhmola Mani, **Deepshikha Pande Katare (2024)** Digital Histopathology: Paving Future Directions Towards Predicting Diagnosis of Disease via Image Analysis". Handbook of AI-Based Models in Healthcare and Medicine,CRC Press,pp: 347-377.
15. S Saxena & Deepshikha Pande Katare (2022) 3D-printed device with integrated biosensors for biomedical applications. Biosensor Based Advanced Cancer Diagnostics, Academic Press. pp 271-283.
16. N Dogra, RJ Mani, Deepshikha Pande Katare (2022). Biosensor-based early diagnosis of hepatic cancer, Biosensor Based Advanced Cancer Diagnostics, Academic Press. Pp 97-111.
17. Nikita Sehgal, Ruchi Jakhmola Mani, Nitu Dogra and **Deepshikha Pande Katare (2021)**. Biosensor-based early diagnosis of Hepatic Cancer. Biosensor Based Advanced Cancer Diagnostics, 97-111. Elsevier.
18. Shikha Saxena and Deepshikha Pande Katare **(2021**). 3D- printed device with integrated biosensors for biomedical applications, In Biosensor Based Advanced Cancer Diagnostics 271-283, Elsevier.
19. N Dogra, S Mishra, RJ Mani, V Aeri, & **Deepshikha**

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6. **Katare Pande Deepshikha**, Savita Mishra 7SK Jain **(2016).** Protein Drug Conjugates: A new class of Biotherapeutics. In: Natural Polymers for Drug Delivery, CABI Publication UK. pp 93-106

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11. **Katare Pande Deepshikha**, Aeri V and Chakravarty GS **(2009).** Propagation of Chlorophytum Borivilianum San and fern-A review. In: Plant tissue culture Molecular Markers and their role in crop productivity by Kumar A and Shekhawat NS (Eds). IK Intl. Publ. New Delhi. pp 332-339.

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14. Srivastava PS, **Pande Deepshikha**, Datta A, and Das S **(2001)** Biotechnological approaches to potenial anit- cancerous herbal drugs for the future. In: Khan, I.A. and Khanum, A. (eds.) Role of Biotechnology in Medicinal and aromatic Plants Vol. V (Ukaaz, Publications: Hyderabad, India) pp: 1-20.

15. Purohit M, **Pande Deepshikha,** and Srivastava PS **(2000)** Conservation of vegetation through tissue culture technique. In: Iqbal, M., Srivastava, P.S. and Siddiqui, T.O. (eds). Environmental Hazards- Plants and People. pp. 367-377. (CBS India: New Delhi)

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17. Srivastava PS and **Pande Deepshikha (1998)** In vitro propagation and conservation of medicinal plants. In: P.S. Srivastava (ed.). Plant tissue culture and molecular biology: Applications and prospects. pp. 254-281. (Narosa Publishing House: New Delhi).

BOOKS :

1. TEXT BOOK : 2008

Pharmaceutical Biotechnology : Basics and Applications

By Deepshikha Pande Katare et al.,(2008) ; Capital Publishing Company Ansari Road, Dariya Ganj ,New Delhi

ISBN: 81-85589-59-3

2. Text Book Intl Edition (2009)

Pharmaceutical Biotechnology : Basics and Applications

***By Deepshikha Pande Katare et al.,(2009*)**

Anshan Publisher UK : 11 Little Mount Sion, Tunbridge Wells, Kent.,TN1 1YS, UK Tel: +44 (0) 1892 557767, Fax: +44 (0) 1892 530358, info@anshan.co.uk

ISBN 1848290152, 9781848290150

	3. Text Book Intl Publisher (2012) "Parkinson's Disease: Progress & Prospects", ***By Deepshikha Pande Katare et.al., 2012*** LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG,Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, **Germany.** **ISBN : 978-3-659-20550-7,**
PATENTS ***(total no.)*** **Patents Granted: 25** **Patents Filed & Published: 42**	***Details: Annexure I***
RESEARCH PROJECTS Completed: ***(total no.):07*** Ongoing: ***(total no.):04 Under Review:02***	**Completed Projects :** **DBT North East:** *In vitro* mass multiplication, conservation and characterization of some rare endangered *Citrus* species for enhancing bioactive compounds and therapeutics". **DBT Twinning, 122 Lakhs, BT**/PR16132/NER/95/160/2015; **2015-2019.** **2. DBT:** Studies on the effect of plant superoxide dismutases on human cancer cells: Molecular and in silico analysis; **35 Lakhs BT/03/10237/2013-14 DBT New Delhi,**;**2014-2018.** **3. NMPB, New Delhi (Collaborative Joint PI):** Bioactivity Guided Fractionation of Extracts of Hepatoprotective and Immunomodulatory Medicinal Plants", **Z/-18017/187/CSS/ IEC/UP/01/2009-10 NMPB, New Delhi, 59.99 Lakhs; 2011-2015.** **4. DRDO (Collaborative with Hamdard University)**: Development of Molecular Biomarkers for Early Detection and Prediction of Lung Cancers and Biosensors**. DRDO, New Delhi ~ 45 Lakhs; 2011-2014.** **5. DST:** Transformation of *Psoralea Corylifolia* An Endangered Medicinal Plant By a*dc* and o*dc* Genes", **SR/WOS-A/LS-265/2003;** 30 Lakhs **DST, New Delhi; 2004-2007.** **6. CSIR:** Production and Characterization of secondary metabolites in stress tolerant plants of *Ammi majus* and *Psoralea corylifolia.*" **9/591/(26)/96/ EMR 1-219136**. **CSIR, New Delhi; 1997-2001.** **7. CSIR:** "Enhanced secondary metabolites in cultures of *Ammi majus* and *Lepidium sativum."***9/591 (22)/95-EMR1**. **CSIR, New Delhi; 1995 -1996.** **Projects Ongoing :**

	1. **DST FIST**: Proteomics and Metabolomics, DST, New Delhi, SR/FIST/LS II/2019/492; **2.20 Crores**.; **2020-2025** 2. **Collaborative Project with Amity University Gurugram: ICMR: ID: 2020-1500** with title **Identification of biomarker candidate for early diagnosis of myocardial reperfusion injury and reoccurrence centralizing GSK3β using metanalysis**. Proposal has been technically approved on 31st March 2020; **44.80 Lakhs**. 3. **Collaborative Project with DIPSARU, Dr Sushma Talegaonkar:** "Development of functionalized dual loaded herbal nano-colloidal carrier: Active targeting and repositioning of teriflunomide for synergistically enhancing role of sulphoraphane in combating triple negative breast cancer". CRG/2020/002873,**66.66 LKHS** **Consultancy Project Completed: 01** 1. **BRICS 2020: Advisor for setting-up of Incubator and Bio-technology laboratories at BRIC, Kochi for Kerala Start Up Mission (KSUM). BCIL/BRIC-KSUM/SKS/2019-1712.** **PROJECTS IN PIPELINE AS PI (Under Review)** 1. **DBT-NMPB Project (Under Consideration cleared 2 rounds);** Bioactivity Guided Fractionation of *Withania somnifera* and *Bacopa monnieri* Extracts for Their Therapeutic Potential Against Alzheimer's Disease and Deciphering their Molecular Mechanism [BT/PR38926/TRM/120/374/2020]". 2. **DST POWER GRANT Project:** Evaluating the Efficacy of Solid Lipid Nanocarriers Containing Diosgenin and Sesame Oil Against the Parkinson's Disease in Wistar Rat Model (Reference No: 182021003754; Under Review).
AWARDS & HONOURS/ DISTINCTIONS	**Fellowships Received:**

1. **Jan.1995 - Dec. 1996 :Senior Research Fellowship**
(**Independent**) CSIR, New Delhi
Project Title: "Enhanced secondary metabolites in cultures of *Ammi majus* and *Lepidium sativum.*"

2. **Jan. 1994 - Dec. 1994** : **Senior Research Fellowship**
DBT, New Delhi
Project Title: "In vitro regeneration of genetically defined clones of *Pinus* and *Betula*"

3. **Jan. 1992 - Dec. 1993: Junior Research Fellowship,** DBT, New Delhi

Awards:

1. Women Scientist Award by DST 2004
2. Travel Grant DST 2004
3. Travel Grant DBT 2015
4. Achievers Award 2024, ISHRE.ORG
5. Real Superwomen Award for Type 3 Diabetes work 2022. Star AFSIA.

6. **1st Prize (1990)** for best seminar presentation at Barkatullah Univ. Bhopal.
7. **2nd Position (1991)** in M.Sc. Genetics Barkatullah University, Bhopal (M.P.) **(Silver Medal).**
8. **1st Prize (1997)** for paper presentation at the National Symposium on Emerging Trends in Plant Tissue Culture and Molecular Biology, Hyderabad. India.
9. **2nd Prize (2000)** for paper presentation at the National Seminar on Frontiers of Research and Development in Medicinal Plants, CIMAP, Lucknow, India.
10. **1st Prize (2001) (GALSTON BEST PAPER)** for paper presentation at the 'National Symposium on Plant Biotechnology and Molecular Biology' 24 Annual Meeting of the Plant Tissue Culture Association India , New Delhi.
11. **2nd Prize (2005)** Differential protein expression in seedlings of *Psoralea corylifolia* under salt stress In: Intl 3rd Intl Conference on Plants and Environmental pollution 4th December, Jamia Hamdard, New Delhi.
12. **2nd prize (2006)** Differential protein expression in neurodegenerative disease In: Intl Symposium on frontiers of genetics and biotechnology 8-10th Jan, Osmania University, Hyderabad.
13. **2nd prize (2012)** "Production of novel theraputics from medicinal plant" Medicinal Plants research in India held

	at Department of Botany, Jamia hamdard, New Delhi during March 16-17, 2012. 14. **2nd prize (2014)** *Synergistic effect of Combination of Chemotherapeutic Drugs for the treatment of Hepatocellular carcinoma.* International Conference on"Future Prospects of Advancements in Biological Sciences, Health Issues &

	Environmental Protection" on 07–08 Feb'14 at Lucknow. 13. **2nd prize (2016).** "Drug Delivery Systems of Herbal Drugs for Improving Health Care", Poster presented **(2nd prize)** at: FICCI HEAL, 2016 Aug31st –Sept 1st, FICCI Federation House, Tansen Marg. 14. **2nd prize (2016).** "New strategies in herbal formulations: Implications in Drug Discovery", Poster presented **(2nd prize)** at: International Conference on Nurturing Global Healthcare, 2016 March 11-12, Amity University Uttar Pradesh, U.P.
MEMBERSHIP with Professional/ Academic bodies	**MEMBERSHIPS/AFFILIATION:** • DST-TDB, Task force Member 2018,2019 • DRC member in Biotech Department Hamdard University • SRAC Member in Pharmacy Department Hamdard University • External Examiner of PhD at Jaipur National University, Bansthali Vidyapith, Jamia Milia Islamia, Jamia Hamdard • External Examiner for M. Pharm Thesis, DIPSARU, Hamdard University • ZEBRAFISH NETWORK RESEARCH CONSORTIUM, USA Life Member • International Society for Neurochemistry (ISN) Life Member **Member of Editorial Board :** 1. Intl. Journal of Pharmacy & Ph Sciences (ICV,4.2) (2010-2013) 2. Intl Journal of Green Pharmacy (2010) 3. World Academy of Science Engineering & Technology (WASET)(2010-2013) 4. International Journal of Biological and Life Sciences Impact factor 3.24 (2010-2013) 5. International Journal of Chemical and Biomolecular Engineering (2011-2013) 6. International Journal of Medicine and Medical Sciences (2011-2013) 7. International Journal of Pharmacology & Toxicology (2011-2013). 8. Biotechnology & Molecular Biology Reviews (2013,2014) 9. Intl. Journal of Pharmacy & Ph Sciences (ICV,4.2) (2010-2013) 10. Intl Journal of Green Pharmacy (2010) 11. World Academy of Science Engineering & Technology (WASET)(2010-2021) Member of Review Board **Reviewer in Journal :** 1. BBA Cancer reviews 2011,2012, Impact factor 11.68 2. Critical Reviews in Biotechnology, 2011,Impact Factor 6.5 3. Protoplasm Journal, Impact factor 1.5, 2011,2012 4. Applied Biochemistry & Biotechnology.2006 5. Scientific Reports. Impact Factor: 5.5, 2017. 6. Drug Design, Development and Therapy. Impact Factor: 3.208.

	2018 7. Clinical Pharmacology: Advances and Applications during 2019.Dove Press

	8. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy Impact Factor: 3.319, 2019. 9. Clinical Pharmacology: Advances and Applications during 2019 10. Neuropsychiatric Disease and Treatment during 2020.Dove Press 11. Nutrients, MDPI,2019,2020 12. Molecules, MDPI,2019,2020 13. Scientific Reports, Nature 14. Neuropsychiatric Disease and Treatment during 2020. **ACADEMIC RECOGNITION:** ➢ **Recognition as PhD Co-Supervisor: Hamdard University letter dated 23.05.2011. (Guiding 03 students of PhD)**

ANNEXURE 1

- **International & Indian Patents and Copyrights**

- **PATENTS GRANTED: 25**

1. **Deepshikha Pande Katare** and T Basu **(2009)**. Process of synthesis of a novel transducer matrix and its application thereof in biosensors, **Patent Application No:**704/DEL/2009 (**Granted Patent Number).** Intellectual Property India, GOI, New Delhi.
2. **3251/DEL/2011**, An Efficient Method of Fungal Elicitation of callus cultures of Lepidium sativum for Enhanced and Mass Production of Lepidine**", Published 17.5.2013, Deepshikha Pande Katare**, AC Kharkwal . **Granted Application, Patent Number :529576, March 2024.**
3. **Deepshikha Pande Katare,** AC Kharkwal **An** Efficient Method of Regeneration and Genetic Transformation of *Psoralea corylifolia* for Enhanced and Early Production of Psoralen and Daidzein and Resistance to Abiotic Stress. **Patent Application Number: 733/Del/2009, (In Amendment stage).**
4. **Deepshikha Pande Katare**, Ruchi Jakhmola Mani **(2011). "**A method for preparing the quercetin loaded nanoparticle**" Patent Application No: 3154/DEL/2011:. (Granted Patent Number; 332159; Feb 2020**). Intellectual Property India, GOI, New Delhi.
5. **Deepshikha Pande Katare**, Shikha Saxena **(2012). "Synthesis of a novel analogue of Sorafenib for the treatment of hepatocellular carcinoma". Patent Application No: 1661/DEL/2012, (Granted Patent Number: Grant under section 43, awaiting NBA approval).** Intellectual Property India, GOI, New Delhi.
6. Harsha Kharkwal**, Deepshikha Pande Katare (2012).** Carbohydrate-Based Biodegradable and Hydro-biodegradable Plastics**' Patent Application No:2140/DEL/2012 (Granted Patent Number: Grant under section 43, awaiting NBA approval, 2020).** Intellectual Property India, GOI, New Delhi.
7. Harsha Kharkwal**, Deepshikha Pande Katare (2012) "Shampoo for Dry and Greasy Hair" Patent Application No: 467/DEL/2012, (Granted Patent Number: Grant under section 43, awaiting NBA approval).** Intellectual Property India, GOI, New Delhi.
8. Harsha Kharkwal and **Deepshikha Pande Katare**, **(2012)** Polymer Based Gelatin Free Capsules'. **Patent Application No:1031/DEL/2012, (Granted Patent Number:** Grant under section 43, awaiting NBA approval March 2021). Intellectual Property India, GOI, New Delhi.
9. H Kharkwal, DD Joshi, **Deepshikha Pande Katare (2012).** Herbal Colors for Food and Cosmetic Industry, **Patent Application No:**40/DEL/2012, (Patent Grant Number: G**rant under section 43, awaiting NBA approval).** Intellectual Property India, GOI, New Delhi.
10. K Bala, Deepshikha Pande Katare, H Kharkwal **(2012)** "Profound effect of curcumin along with vitamin-c on malathion induced toxicity reduction". **Patent Application No:**1321/DEL/2012, (**Granted Patent Number 422085, 16/02/2023)**. Intellectual Property India, GOI, New Delhi.
11. **Deepshikha Pande Katare**, Harsha Kharkwal **(2012).** Novel Formulation for treating NASH. **Patent Application No:102/DEL/2012, (Grant No: 436231; June 2023).** Intellectual Property India, GOI, New Delhi.

12. **Deepshikha Pande Katare, Neha Mathur (2012).** 'Novel Formulation of Standardized Extract of Psoralea corylifolia for the Treatment of Liver Cirrhosis**'. Patent Application No:**2103/DEL/2012, **(Granted Patent Number 407958 , 29.9.2022).** Intellectual Property India, GOI, New Delhi.
13. **Deepshikha Pande Katare**, Ruchi Jakhmola Mani **(2013)** Tacrine and Quercetin conjugate form for treatment of Alzheimer's Disease. **Patent Application No: 3280/DEL/2013 Granted Patent Number: 338130,June 2020).** Intellectual Property India, GOI, New Delhi.
14. **Deepshikha Pande Katare,** Lotika Chawla **(2013).** A novel therapeutic dicyclopenthyl compound and its method of preparation thereof. **Patent Application No:2581/DEL/2013, (Granted Patent Number: 389141**; **Feb 2022).** Intellectual Property India, GOI, New Delhi.
15. **Deepshikha Pande Katare**, Dr Harsha Kharkwal **(2013).** Antiovulatory lepidin based novel formulation and a method for the preparation thereof, **Patent Application No:**2986/DEL/2013; (**Granted Patent Number 415591**, Dec 2022). Intellectual Property India, GOI, New Delhi.
16. **Deepshikha Pande Katare and Savita Mishra (2013).** A novel synergistic formulation for inhibition of tumor growth and method of preparation Thereof. **Patent Application No:**2372/DEL/2013, (**Granted Patent Number :397163, May 2022).** Intellectual Property India, GOI, New Delhi.
17. **Deepshikha Pande Katare**, Ruchi Jakhmola, Khyati Mittal **(2017).** Filomicelles of Combination Drugs for the Treatment of Brain Diabetes, **Patent Application No:**201711005476, (G**ranted Patent Number: 420647; Feb 2023).** Intellectual Property India, GOI, New Delhi.
18. 201611031454, "Natural Multipurpose Dye", Filed, Sep 2016, Published March 2018, H, Kharkwal, **Deepshikha Pande Katare**.(**Reply Filed. Application in amended examination).**
19. **Deepshikha Pande Katare**, Khyati Mittal, D Nagpal **(2018).** A combination therapy for the treatment of type III diabetes **Patent Application No:**201711005477, (G**ranted Patent Number**: **484258; 18.12.2023).** Intellectual Property India, GOI, New Delhi.
20. **Deepshikha Pande Katare,** Gunjan Sharma, Vidhu Aeri **(2018)** 'A Method of Preparing Phytosomal Nanoemulsion for the Treatment of Type 2 Diabetes Mellitus' Patent **Application No:**201711028601, **(**G**ranted Patent Number: Grant under section 43, awaiting NBA approval, 7th Dec 2023).** Intellectual Property India, GOI, New Delhi.
21. **Deepshikha Pande Katare**, Gunjan Sharma **(2018)**. A process to develop type 2 diabetes mellitus in Wistar albino rat mimicked to human pathology, **Patent Application No:**201811042801, (Granted **Patent Number: 201811042801; 13.2.2024).** Intellectual Property India, GOI, New Delhi.
22. 201611028636, "A Novel low-cost medium based on rotten tomato" Aug 2016, Published March 2018, Aarti Sharma, **Deepshikha Pande Katare, Granted Application, Patent Number :533664, April 2024.**
23. **Deepshikha Pande Katare**, Shikha Saxena **(2019).** A novel Benzylamine analogue of Sorafenib as Angiogenic Inhibitor, Filed June 2017, Published March 2019. **Patent Application No:**201711021881, (**Granted Patent Number :457828. Dt: 10.10. 2023).** Intellectual Property India, GOI, New Delhi.
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- **Patents Filed /Published 2009-2024: 23 (Indian & International Patent)**

- **International Patents:**

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1. 260924"Method for enhancing lipid production in bacterial strain using xylose for biodiesel applications" Deepshikha Pande Katare, Sugandha Asthana, PM Kakkar, RJ Mani 2024.
2. 202311062576, Deepshikha Pande Katare; Ravina Yadav, Ruchi Jakhmola Mani, Solid Lipid Formulation of Metformin and Berberine for Enhanced Neuroprotective Effects and Preparation Method Thereof. 19th Oct 2023.
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7. 202011001182, A novel formulation for the treatment after an induction of Parkinson Disease via multi low dose of rotenone, Filed, Jan 2020. **Deepshikha Pande Katare**, Nitu Dogra; Published **16th June 2021, (RQ Filed).**
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12. 1374/DEL/2012, Filed May 2012, Published Dec2014, Novel synergistic drug for HCC, **Deepshikha Pande Katare**, Savita Mishra, Jhon Moses.
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18. 2414/DEL/2013, entitled, Rivastigmine and Quercetin conjugate form for treatment of Alzheimer's disease'**. Deepshikha Pande Katare, Ruchi jakhmola Mani, Published Feb 2015.**
19. **Deepshikha Pande Katare. (2011).** Novel formulation for non-small cell lung cancer. **Patent Application No:3473/DEL/2011.**

- **Copyright Granted:**

1. Public health alert system in India: utilizing social media and news for early detection. l-153565/2024. Granted. Deepshikha Pande Katare et.al.
2. Transforming brain tumor diagnosis with cutting-edge machine learning models. l-153564/2024. Granted. Deepshikha Pande Katare et.al.

3. Chemical design and synthesis of a dual action Alzheimer's disease treatment: rivastigmine and quercetin conjugation. l-146838/2024. Granted. Deepshikha Pande Katare et.al.

Product Commercialization In Progress:

1. 'A smart solid lipid nanocarriers loaded with n-Hexadecanoic acid, 9-12-Octadecadienoic acid, Levodopa and Sesame oil for the Treatment of Parkinson's Disease'. NDA Signed with Emami

2. Novel Synergistic Drug for HCC. NDA Signed with LARK Laboratories.
3. 260924"Method for enhancing lipid production in bacterial strain using xylose for biodiesel applications" Deepshikha Pande Katare, Sugandha Asthana, PM Kakkar, RJ Mani 2024.Indian Oil discussion in progress.

- **PhD Supervised as Guide & External Guide: Total 23 students (16 students as Guide from Amity University & 05 students as External Guide from Hamdard University)**

- **PhD Students Under Supervision as Supervisor: (02) (Ongoing at Amity University)**

1. **Ravina Yadav (2020 Ongoing):** Elucidating Crosstalk between Different Regulatory Pathways Involved in Type 2 Diabetes Induced Alzheimer's Disease and Nanocarriers Development.
2. **Mukesh Kumar Jogi (2022 Ongoing),** Synthesis of chitosan-folic acid conjugated nanoparticles loaded with nimbolide and its effect on pancreatic cancer cell lines.

- **Thesis Submitted & Degree Awarded as Supervisor (15) (Amity University)**

1. **Neha Mathur (Jan 2010-2016):** "Formulation of a Hepatoprotective Herbal Extract and assessment of pharmacodynamic and pharmacokinetic parameters"
2. **Dheeraj Nagpal (Nov 2010-2016):** Formulation and Characterization of Phytosomes of Gossypin for the treatment of Epilepsy.
3. **Savita Mishra (Aug 2013-2017)** Evaluation of Efficacy of Drug Combinations and Drug Conjugate for the Treatment of Hepatocellular Carcinoma (HCC).
4. **Khyati Mittal (Aug 2014-2018).** Liposomal Mediated Drug Delivery of Drug Combinations for the Treatment of Type III Diabetes.
5. **Sandhya Hora (Jan 2015-2019):** Identification of Protein Markers for Staging and Prognosis of Hepatocellular Carcinoma.
6. **Gunjan Sharma (Jan 2012-2019)** Identification of Signature Proteins as Diabetic Biomarkers & Evaluation of Antidiabetic Activity of *Euphorbia Hirta.*
7. **Shikha Saxena (Jan 2012- July 2020)** Synthesis of Analogues of Sorafenib for the treatment of Hepatocellular Carcinoma.
8. **Ruchi Jakhmola Mani (15/07/2015 to Aug 2021).** "Efficacy of Rivastigmine and Quercetin in Combination and Conjugate form for Treatment of Alzheimer's Disease and its Modelling and Docking Studies."
9. **Oyesolape Basirat DBT-TWAS Fellow (2018- Aug 2021 Degree Awarded)** Formulation of Diosgenin incorporated oil in water nanoemulsion for the transdermal treatment of Diabetes.
10. **Neetu Dogra (2017-2022)**: Formulation and Characterization of Drug-Loaded Nanocarriers for the Treatment of Parkinson's Disease.
11. **Priyam Tyagi (2016-2022)** Production and Characterization of Polyhydroxyalkanoate (PHA) from Cost-effective Substrates and Synthesis of PHA Nanoparticles.
12. **Kanagarethinam S. (2016-2022)**. Effect of plant protein tyrosine phosphatase and its inhibitors on human cancer cells: biochemical and *in silico* analysis.
13. **Nitesh Kumar Saxena (2015- 2022).** Isolation and Characterization of Polyhydroxyalkanoate (PHA) Producing Bacterial Strains from Industrial Waste.
14. **Asiya Khan (2019- 2024)** Role of Complement Regulatory Proteins and NF-κB Signaling Pathway in HPV Mediated Cervical Carcinogenesis.
15. **Ritupriya Singh (2020-2024):** In Vitro Regeneration of Citrus macroptera Montr. and Evaluation of its Neuroprotective Effect.
16. **Sugandha Asthana (2020 – Submitted 2024**): Isolation and characterization of microorganisms for industrially

important triacylglycerol(s) production.

- **PhD Supervisor as External Supervisor: 05 Students Degree awarded from Hamdard University (2012-2020). (Outcome of Joint Collaborative DRDO& DBT Projects)**

    1. **Shilpa Bhatnagar (Aug 2008-Dec 2012)** "Serum Proteomics in Biomarker Discovery for Lung Cancer". (In DRDO Collaborative Project).
    2. **Naveen Chaudhary (July 2010-July 2015).** Tissue specific biomarkers for lung cancer(JRF DRDO); (In DRDO Collaborative Project).
    3. **Ilyas UK** (2011-2015). Bioactivity guided fractionation of *Boerhavia Diffusa* L, *Ocimum sanctum* L and *Phyllanthus maderaspatensis* L for hepatoprotective and immunomodulatory Activity (NMPB Project).
    4. **Shabnam Malik (2012-2016).** Development of Proteomic based Biomarkers for Early Detection of Liver Cancers (DBT Project)
    5. **Md Asad (July 2016- March 2020).** Prospective Biomarker(s) for Lung Cancer: Identification, Characterization and Correlation with Pathophysiology. (DBT Project)

- **M. Phil Thesis Submitted & Degree Awarded as Supervisor:**

    1. Jasmine Kaur Kharbanda (2010): *"Early Detection of Serum Based Biomarkers in Lung Cancer"*

- **M. Pharm Thesis Supervisor from AIP, AUUP:08 Students**

    1. **Ms. Anjali Mahendru (2011**):- "Formulation of a herbal drug against animal models of Hepatitis".
    2. **Ms Nisha: (2011)"** Neuroprotemic study on animal model of Epilepsy".
    3. **Mr Pradeep (2011)"**Development of sustained release formulation against liver cirrhosis".
    4. **Ms Shruti (2011)** "A Neuroprotemic study on animal models of Alzheimer's disease".
    5. **Ms.Sunanda (2011)"**Development of Biomarker in Parkinson's disease".
    6. **Ms.Sonam Dhingra (2011)** "Characterization of certain biopolymers used in targeted drug delivery".
    7. **Ms Shimmi (2011)** Proteomics in biomarker discovery in HepatoCellular Carcinoma
    8. **Ms.Rekha(2011)** " DNA fingerprinting and Metabolite Fingerprinting in *Chicorium intybus*".

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