


NAME	Dr. Deepshikha Pande Katare	
DESIGNATION	Professor, Asst. Director & Centre Head	
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CONTACT NUMBER	120-4392410	
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, Alzheimers, 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	M.Sc. Genetics	1991
Hamdard University, New Delhi	Ph.D. Biotechnology	1996

Title of Ph.D. thesis :

EXPERIENCE (in chronological order)

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Professor, Assistant Director & Centre Head	Teaching & Research	Centre for Medical Biotechnology, Amity Institute of Biotechnology, AUUP, Noida	April 2014-Till Date
Professor & Assistant Director	Teaching & Research	Amity Institute of Biotechnology, AUUP, Noida	Sept 2011- Till Date
Professor , Assistant Director & Head Pharm Biotech	Teaching & Research	Amity Institute of Pharmacy, AUUP, Noida	Feb 2010-Aug 2011
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) : 12	
		Ongoing: (no. only) : 06	
No of M. Pharm Supervised		Awarded 29	
No of M. Tech/M.Sc Supervised		Awarded 38	
Administrative Experience		<ul style="list-style-type: none"> ➤ Assistant Director : 07 Years (Continuing) ➤ HOD: Medical Biotechnology : 02 Years (Continuing) ➤ HOD : M.Pharm & PhD Programme: 02 Years ➤ Academic & Administrative coordinator : 05 Years ➤ Chairperson Interview Board : 04 Years. ➤ Animal House Coordinator : 02 Year ➤ QAE Convenor: 04 years (Continuing) ➤ Member Secretary UEC; 03 years ➤ Member: BOS,DRC & Biosafety Committee ➤ Chairperson: SRC ➤ Member: University Strategic Planning Committee 	
PUBLICATIONS (mention total no. here) Research Papers: 83 Book Chapter : 15 Abstract Published : 154 Invited Lectures: 42		RESEARCH PAPERS : (IF: Impact Factor) <ol style="list-style-type: none"> 1. M. Ilyas, V Aeri & Deepshikha Pande Katare (2022) Densitometric validation of phyllanthin, oleanolic acid, and betulinic acid in <i>Phyllanthus maderaspatensis</i> linn by high-performance thin layer chromatography. <i>Pharmacognosy Magazine</i> 2. N Dogra, RJ Mani, Deepshikha Pande Katare (2021). The gut-brain axis: Two ways signaling in Parkinson's disease. <i>Cellular and Molecular Neurobiology</i>, 1-18 (IF: 5.046) 3. N Dogra, D Nagpal, V Aeri, S Ahmad, Deepshikha Pande Katare (2021). Evaluating the Synergistic Effect of <i>Mucuna purines</i> Extract and Sesame Oil 	

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

4. U Ilyas, **Deepshikha Pande Katare**, PP Naseef, MS Kuruniyan, M Elayadeth-Meethal, V Aeri (2021). Immunomodulatory Activity of *Phyllanthus maderaspatensis* in LPS-Stimulated Mouse Macrophage RAW 264.7 Cells. *Separations* 8 (9), 129, (IF: 2.777)
5. S Hora, M Asad, SK Jain, **Deepshikha Pande Katare** (2021) Identification of potential targets with high centrality indicated by diethylnitrosamine + thioacetamide-induced hepatocellular carcinoma model, *Journal of Cancer Research and Therapeutics* 17 (4), 1081 (IF:1.25)
6. OB Oyelaja-Akinsipo, EO Dare, FO Oladoyinbo, DP Katare, LO Sanni (2021). Nanoemulsion: a promising and novel nanotherapeutic vehicle for transdermal drug delivery application. *Journal of Chemical Society of Nigeria* 46 (4).
7. K Selvaraj, **Deepshikha Pande Katare**, S Chand, N Chaudhary(2021).*Trachyspermum ammi* and *Cinnamomum verum* as nutraceuticals: Spices rich in therapeutically significant protein tyrosine phosphatases. *Journal of Food Biochemistry*, e13750. (IF: 2.72).
8. R.J. Mani, A. Islam & **Deepshikha Pande Katare** (2020). Liver-Brain Axis in Sporadic Alzheimer's Disease: Role of Ten Signature Genes in a Mouse model. *CNS & Neurological Disorders Drug Targets*.
, DOI: 10.2174/1871527319666201209111006 PMID: 33297922 (IF: 4.388)
9. Ruchi Jakhmola Mani, Nikita Sehgal, Nitu Dogra, Shikha Saxena & **Deepshikha Pande Katare** (2020) Deciphering underlying mechanism of Sars-CoV-2 infection in humans and revealing the therapeutic potential of bioactive constituents from *Nigella sativa* to combat COVID19: *in-silico* study, *Journal of Biomolecular Structure and Dynamics*, DOI: 10.1080/07391102.2020.1839560. (IF: 3.549).
10. N. Dogra, R Jakhmola-Mani, **Deepshikha Pande**

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

11. OB Oyelaja-Akinsipo, EO Dare and **Deepshikha Pande Katare (2020)** Nanoemulsion: A Promising and Novel Nanotherapeutic Vehicle for Transdermal Drug Delivery Application.. *Journal of Engineering and Applied Sciences* 15, 3214-3225.
12. OB Oyelaja-Akinsipo,, EO Dare and **Deepshikha Pande Katare (2020)** Protective role of diosgenin against hyperglycaemia-mediated cerebral ischemic brain injury in zebrafish model of type ii diabetes mellitus. *Heliyon Cell Press* 6 (1), e03296. (IF: 2.85).
13. S Saxena, S Bawa, **Deepshikha Pande Katare (2020).** Statistical and Continuous Manufacturing approach by Design of Experiment (DoE) for a Robust Synthetic Process of a Sorafenib Analogue. *Research Journal of Pharmacy and Technology* 13 (1), 1-8. (IF: 1.20).
14. S Saxena, **Deepshikha Pande Katare (2020).** Channa Punctatus as an Alternative to Rodent Animal Models. *Research Trends in Fisheries and Aquatic Science*. 7: 49-65.
15. 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 Magazine*. DOI: 10.4103/0973-1296.251402. (IF: 1.07).
16. R Jakhmola-Mani, K Mittal, **Deepshikha Pande Katare, (2020).** Alarm Test: A Novel Chemical-Free Behavioural Assessment Tool for Zebrafish. *Zebrafish in Biomedical Research. Intech Open*.
17. **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.
18. 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:

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19. 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).
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22. **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) .
23. G Sharma, MU Ashhar, V Aeri, **Deepshikha Pande Katare** (2018). Development and characterization of late-stage diabetes mellitus and-associated vascular complications *Life sciences* 216, 295-304. (IF: 3.65).
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27. Savita Mishra, Sandhya Hora, Vibha Shukla, Mukul

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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33. **Deepshikha Pande Katare (2017)**. Type 3 Diabetes: A new health crisis. QS WOW News Newsletter November 2016- January 2017. Pp 19.
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36. Khyati Mittal and **Deepshikha Pande Katare (2016)**. Shared links between Type 2 Diabetes mellitus and Alzheimers Disease. Diabetes and Metabolic Syndrome: *Clinical Research and Reviews*. 10 (2), S144-S149. Scopus. (IF: 0.445). ISSN: 1871-4021.
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46. D Nagpal, N Srivastava & **Deepshikha Pande Katare (2014)**. Development and Characterization of liposomal Drug Delivery System of Gossypin. *International Journal of Pharmaceutical Sciences Review and Research*. Volume 27: (2): 11-15. Scopus. (IF: 2.191).
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48. Savita Mishra, Vidhu Aeri and **Deepshikha Pande Katare (2014)** Hepatoprotective medication for liver injury. *WJPPS*, 3: (5) 891-932. ISSN 2278 – 4357. Scopus. (IF: 2.786).
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50. S Malik, **Deepshikha Pande Katare** & SK Jain (2013). Proteomic Profiling of Hepatocellular carcinoma: Elevated circulating complement C3 Level displays role for potential early cancer biomarker. *Molecular Immunology*; ISSN No 0161-5890 56 (3): 284-284. Indexed: Scopus, NCBI, Pub Med (IF: 2.917).
51. H Kharkwal, k Bala & **Deepshikha Pande katare (2013)**. Biodegradable Capsules: A Review. *World Journal of Pharmacy and Pharmaceutical Sciences*. ISSN 2278 – 4357. 2(6): 4474-4484. **Impact Factor SJIF: 5.02**.
52. **Deepshikha Pande Katare**, H.Malik & MZ Abdin

(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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55. Illyas Ahamd,**Deepshikha Pande Katare** & V. Aeri (2013). Phytochemical investigations of *B. Diffusa*. *International Journal of Phytopharmacology* 4(3): 184-189. ISSN No: 2229-7472. (IF: 1.02).

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BOOK CHAPTERS (National & International)

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2. 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.
3. 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.
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Pande Katare (2021). Pharmacodynamic biomarker for Hepatocellular carcinoma C: Model-based evaluation for pharmacokinetic–pharmacodynamic responses of drug. *Translational Biotechnology*, 311-325.

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
7. **Katare Pande Deepshikha & Bora M (2011).** Environmental stress enhances the levels of secondary metabolite production in medicinal plants. In : *Medicinal Plants in Changing Environment* by Ahmad A, Siddiqui TO & Iqbal M Capital Publishing House, New Delhi pp:98-108.
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9. **Katare Pande Deepshikha & Aeri V (2009)** Metabolic Engineering for stress tolerance. In *Plant Physiology Current Trends* .By PC Trivedi. Pointer Publisher, Jaipur, India. pp: 120-134.
10. **Katare Pande Deepshikha, Bhargav S & Aeri V (2009)** Enhancement of Secondary metabolite by Elicitation & Metabolic Engineering. In: *Plant Tissue Cultures and Molecular Markers and their role in crop Productivity* by Kumar A and Shekhawat NS (Eds) IK Intl. Publ. New Delhi pp. 353-368.
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13. Bharti N, **Pande Deepshikha**, Srivastava S and Srivastava P.S. (2002) Role of mycorrhiza in invitro micropropagation of plants. In: Techniques in Mycorrhizal studies, Kluwer Publ. Pp.443-468.
14. Srivastava PS, **Pande Deepshikha**, Datta A, and Das S (2001) Biotechnological approaches to potencial anticancerous 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)
16. Saba, Srivastava PS, Iqbal M, and **Pande Deepshikha** (1999) In vitro studies and the analysis of bioactive ingredients of Ammi majus L. In: Khan, I. A. and Khanum, A. (ed.). Role of biotechnology in medicinal and aromatic plants. Vol.II. (Ukaaz Publications: Hyderabad, India).
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,
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ISBN 1848290152, 9781848290150

	<p style="text-align: center;">3. Text Book Intl Publisher (2012)</p> <p style="text-align: center;">"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,</p>
<p>PATENTS (total no.) Patents Granted: 14 Patents Filed & Published: 38</p>	<p style="text-align: center;"><i>Details: Annexure I</i></p>
<p>RESEARCH PROJECTS Completed: (total no.):07 Ongoing: (total no.):04 Under Review:02</p>	<p>Completed Projects :</p> <p>DBT North East: <i>In vitro</i> mass multiplication, conservation and characterization of some rare endangered <i>Citrus</i> species for enhancing bioactive compounds and therapeutics”. DBT Twinning, 122 Lakhs, BT/PR16132/NER/95/160/2015; 2015-2019.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5. DST: Transformation of <i>Psoralea Corylifolia</i> An Endangered Medicinal Plant By <i>adc</i> and <i>odc</i> Genes”, SR/WOS-A/LS-265/2003; 30 Lakhs DST, New Delhi; 2004-2007.</p> <p>6. CSIR: Production and Characterization of secondary metabolites in stress tolerant plants of <i>Ammi majus</i> and <i>Psoralea corylifolia</i>.” 9/591/(26)/96/ EMR 1-219136. CSIR, New Delhi; 1997-2001.</p> <p>7. CSIR: “Enhanced secondary metabolites in cultures of <i>Ammi majus</i> and <i>Lepidium sativum</i>.”9/591 (22)/95-EMR1. CSIR, New Delhi; 1995 -1996.</p> <p>Projects Ongoing :</p>

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 GSK3 β 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 Ongoing: 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 PIPE LINE 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. **1st Prize (1990)** for best seminar presentation at Barkatullah Univ. Bhopal.
5. **2nd Position (1991)** in M.Sc. Genetics Barkatullah University, Bhopal (M.P.) (**Silver Medal**).
6. **1st Prize (1997)** for paper presentation at the National Symposium on Emerging Trends in Plant Tissue Culture and Molecular Biology, Hyderabad. India.
7. **2nd Prize (2000)** for paper presentation at the National Seminar on Frontiers of Research and Development in Medicinal Plants, CIMAP, Lucknow, India.
8. **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.
9. **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.
10. **2nd prize (2006)** Differential protein expression in neurodegenerative disease In: Intl Symposium on frontiers of genetics and biotechnology 8-10th Jan, Osmania University, Hyderabad.
11. **2nd prize (2012)** [“Production of novel therapeutics from medicinal plant” Medicinal Plants research in India held at Department of Botany, Jamia hamdard, New Delhi during March 16-17, 2012.](#)
12. **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 &

	<p>Environmental Protection” on 07–08 Feb’14 at Lucknow.</p> <p>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.</p> <p>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.</p>
<p>MEMBERSHIP with Professional/ Academic bodies</p>	<p>MEMBERSHIPS/AFFILIATION:</p> <ul style="list-style-type: none"> • 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 in Jaipur National University, Bansthali Vidyapith, Jamia Milia Islamia, Jamia Hamdard • External Examiner for M.Pharm Thesis, DIPSARU, Hamdard University • ZNRC,USA <p>Member of Editorial Board :</p> <ol style="list-style-type: none"> 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) <p>Member of Review Board</p> <p>Reviewer in Journal :</p> <ol style="list-style-type: none"> 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

	<p>8. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy Impact Factor: 3.319, 2019.</p> <p>9. Clinical Pharmacology: Advances and Applications during 2019</p> <p>10. Neuropsychiatric Disease and Treatment during 2020. Dove Press</p> <p>11. Nutrients, MDPI, 2019, 2020</p> <p>12. Molecules, MDPI, 2019, 2020</p> <p>13. Scientific Reports, Nature</p> <p>14. Neuropsychiatric Disease and Treatment during 2020.</p> <p>ACADEMIC RECOGNITION:</p> <p>➤ Recognition as PhD Co-Supervisor: Hamdard University letter dated 23.05.2011. (Guiding 03 students of PhD)</p>
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ANNEXURE 1

PATENT RECORD FROM 2009-2021: Total Patent Granted: 11

PATENTS GRANTED:

1. **3251/DEL/2011**, An Efficient Method of Fungal Elicitation of callus cultures of *Lepidium sativum* for Enhanced and Mass Production of Lepidine” (In order of grant awaiting NBA approval, May 2019) **Deepshikha Pande Katare**, AC Kharkwal
2. **3154/DEL/2011**: “A method for preparing the quercetin loaded nanoparticle”. (Grant Patent Number; **332159**; Feb 2020). **Deepshikha Pande Katare**, Ruchi Jakhmola Mani
3. **1661/DEL/2012**: “Synthesis of a novel analogue of Sorafenib for the treatment of hepatocellular carcinoma”. (In order for grant under section 43, awaiting NBA approval) , **Deepshikha Pande Katare**, Shikha Saxena.
4. **467/DEL/2012**: “Shampoo for Dry and Greasy Hair” (In order for grant under section 43, awaiting NBA approval). Harsha Kharkwal, **Deepshikha Pande Katare**.
5. **3473/DEL/2011**, Novel formulation for non-small cell lung cancer. (In order for grant under section 43, awaiting NBA approval) **Deepshikha Pande Katare**.
6. **102/DEL/2012**: Novel Formulation for treating NASH (In order for grant under section 43, awaiting NBA approval). **Deepshikha Pande Katare**, Harsha Kharkwal
7. **733/Del/2009** : 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. (In Amendment stage) . **Deepshikha Pande Katare**, AC Kharkwal.
8. **3280/DEL/2013**. Tacrine and Quercetin conjugate form for treatment of Alzheimer’s Disease. Granted Application Patent Number: **338130 (June 2020)**. **Deepshikha Pande Katare**, Ruchi Jakhmola Mani.
9. **2140/DEL/2012** Carbohydrate Based Biodegradable and Hydro-biodegradable Plastics’(In order for grant under section 43, awaiting NBA approval, 2020). Harsha Kharkwal, **Deepshikha Pande Katare**
10. **1031/DEL/2012** Polymer Based Gelatin Free Capsules’. (In order for grant under section 43, awaiting NBA approval March 2021). **Deepshikha Pande Katare**, Harsha Kharkwal
11. **2581/DEL/2013**, A novel therapeutic dicyclopenthyl compound and its method of preparation thereof. (In order for grant under section 43, awaiting NBA approval, March 2021). **Deepshikha Pande Katare**, Lotika Chawla.

Patents Filed /Published 2009-2021

1. 202011010374, A Novel Transdermal Delivery System of Diosgenin in Nanoemulsion for the Treatment of Type II Diabetes, Filed, March 2020, Published 17-09-2021. **Deepshikha Pande Katare**, Oyesolape Basirat.
2. 202011024407, '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', Filed, June 2020., **Deepshikha Pande Katare**, Nitu Dogra
3. 202011020448, 'A method for isolating thermo-resistant superoxide free radical scavenging enzyme from Ajwain and its growth inhibitory effect against human cervical cancer cells (HeLa)', Filed May 2020, Nidhee Chawdhary, **Deepshikha Pande Katare**.
4. 202011001182, Neurotoxin model of Parkinson's disease: a novel tool for drug discovery, Filed, Jan 2020. **Deepshikha Pande Katare**, Nitu Dogra
5. 201911010632, A method to develop a chronic model of Parkinson's disease in Zebrafish imitating Human pathophysiology, Filed, Jan 2019. **Deepshikha Pande Katare**, Nitu Dogra.
6. 201711026346 Electrochemical Biosensor towards Point-of-Care of Hepatocellular Carcinoma Prognosis, Filed, July 2017, Published, March 2019. **Deepshikha Pande Katare**, Sandhya Hora.
7. 201811045271, "Molecular interactions of hepatocarcinogenesis specific proteins in transgenic and chemically induced animal model of liver cancer" Filed, Nov 2019, Published Aug 2020. **Deepshikha Pande Katare**, Sandhya Hora, Savita Mishra
8. Filomicelles of Combination Drugs for the treatment of Brain Diabetes, 201711005476, August, 2018. **Deepshikha Pande Katare**, Ruchi Jakmola, Khyati Mittal.
9. 201811042801, A process to develop type 2 diabetes mellitus in wistar albino rat mimicked to human pathology, Filed, Nov 2018, Published, May 2020. **Deepshikha Pande Katare**, Gunjan Sharma.
10. 201711026345, A Novel Composition for the Treatment of Hepatocellular Carcinoma, Filed, June 2017, Published March 2019, **Deepshikha Pande Katare**, Shikha Saxena.
11. 201711021881, A novel Benzylamine analogue of Sorafenib as Angiogenic Inhibitor, Filed June 2017, Published March 2019, **Deepshikha Pande Katare**, Shikha Saxena.
12. 201711005477, A combination therapy for the treatment of type III diabetes Filed, Feb 2017, Published Aug 2019, **Deepshikha Pande Katare**, Khyati Mittal, D Nagpal.
13. 201611031454, "Natural Multipurpose Dye", Filed, Sep 2016, Published March 2018, H, Kharkwal, **Deepshikha Pande Katare**.
14. 201611028636, "A Novel low-cost medium based on rotten tomato" Aug 2016, Published March 2018, Aarti Sharma, **Deepshikha Pande Katare**.
15. 201611028635, "Nanocarriers of natural L-Dopa for the treatment of Parkinson's disease" Filed, Aug 2016, Published March 2018, **Deepshikha Pande Katare**, Khyati Mittal.
16. 69413/DEL/2016, Pharmaceutical Compositions of natural L-DOPA for the treatment of Parkinson's Disease, Filed Aug 2016, Published Nov 2018, **Deepshikha Pande Katare**, D Nagpal, K Mittal.
17. 3280/DEL/2013, Tacrine-quercetin conjugates form for treatment of Alzheimer's disease, Filed Nov 2013, Published Feb 2015, **Deepshikha Pande Katare**, Ruchi Jakhmola Mani.
18. 2986/DEL/2013, Antiovolatory lepidin based novel formulation and a method for the preparation thereof, Filed Oct 2013, Published Oct 2015, **Deepshikha Pande Katare**, H Kharkwal.
19. 3154/DEL/2011, A method for preparing the quercetin loaded nanoparticle, Filed, Nov 2011, Published Oct 2013, **Deepshikha Pande Katare**, Ruchi Jakhmola Mani
20. 733/DEL/2009, Method of Agrobacterium mediated transformation and regeneration of Psoralea carylifolia Filed, April 2009, Published, Jan 2011 **Deepshikha Pande Katare**, AC Kharkwal.
21. 704/DEL/2009, Filed April 2009, Published January, 2011, Process of synthesis of a novel

- transducer matrix and its application thereof in biosensors, **Deepshikha Pande Katare**.
22. 1374/DEL/2012, Filed May 2012, Published Dec 2014, Novel synergistic drug for HCC, **Deepshikha Pande Katare**, Savita Mishra, Jhon Moses.
 23. 1239/DEL/2012, Filed, April 2012, Published Jan 2015, Targeted drug delivery for liver carcinoma using silymarin-drug conjugates **Deepshikha Pande Katare**, H Kharkwal, Jhon Moses.
 24. 40/DEL/2012, Herbal Colors for Food and Cosmetic Industry, Filed 2012, Published March 2014, H Kharkwal, DD Joshi, **Deepshikha Pande Katare**.
 25. 3306/Del/2011, Filed, Dec 2011, Published March 2013, High fiber Dietary supplement for Diabetes, H Kharkwal, **Deepshikha Pande Katare**.
 26. 2984/Del/2011, Novel Formulation for Cancer, March 2011, Dec 2013, H Kharkwal, **Deepshikha Pande Katare**.
 27. 424/Del/2013, A novel Biomarker for Detection of Hepatocellular carcinoma, ,Filed Nov 2013, Published May 2015, SK Jain, S Malik, **Deepshikha Pande Katare**.
 28. 2831/Del/2013, Hepatoprotective drug by using Cichorium intybus extract in novel polysaccharide Filed Nov 2013, Published July 2015, **Deepshikha Pande Katare**, Neha Mathur.

PhD Supervised:

PhD Students Under Supervision as Guide : (03) (Ongoing at Amity University)

1. **Neetu Dogra (2017 Ongoing)**: Formulation and Characterization of Drug-Loaded Nanocarriers for the Treatment of Parkinson's Disease.
2. **Ravina Yadav (2020 Ongoing)**: Elucidating Cross-Talk between Different Regulatory Pathways Involved in Type 2 Diabetes Induced Alzheimer's Disease and Nanocarriers Development.
3. **Pratika (July 2021)**. Synopsis in progress.

PhD Students Ongoing as Internal Co-Guide (04) (Ongoing at Amity University)

1. Priyam Tyagi (15/07/2016) Production and Characterisation of Polyhydroxyalkanoate (PHA) from Cost-effective Substrates and Synthesis of PHA Nanoparticles.
2. Nitesh Kumar Saxena (15/07/2015). Isolation and Characterization of Polyhydroxyalkanoate (PHA) Producing Bacterial Strains from Industrial Waste.
3. Kanagarethinam S. (07/08/2016). Effect of plant protein tyrosine phosphatase and its inhibitors on human cancer cells: biochemical and *in silico* analysis

Thesis Submitted & Degree Awarded as Guide (09) (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 PhD Degree Awarded)**. Liposomal Mediated Drug Delivery of Drug Combinations for the Treatment of Type III Diabetes.
5. **Sandhya Hora (Jan 2015-2019 PhD Degree Awarded)**: Identification of Protein Markers for Staging and Prognosis of Hepatocellular Carcinoma.
6. **Gunjan Sharma (Jan 2012-2019 PhD Degree Awarded)** Identification of Signature Proteins as Diabetic Biomarkers & Evaluation of Antidiabetic Activity of *Euphorbia Hirta*.

7. **Shikha Saxena (Jan 2012- July 2020 PhD Degree Awarded)** Synthesis of Analogues of Sorafenib for the treatment of Hepatocellular Carcinoma.
8. **Ruchi Jakhmola Mani (15/07/2015 to Aug 2021 Degree Awarded).** "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)** Nanogel formulations for Type 2 Diabetes.

Thesis Submitted & Degree Awarded (2012,2015,2020) as External Guide in Hamdard University New Delhi

1. **Shilpa Bhatnagar (Aug 2008)** " Serum Proteomics in Biomarker Discovery for Lung Cancer". (In DRDO Project) : **06TH December 2012.**
2. **Naveen Chaudhary(July 2010).** Tissue specific biomarkers for lung cancer(JRF DRDO);July 2015.
3. **Md Asad (March 2020).**

M. Phil Thesis Submitted & Degree Awarded as Supervisor:

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

Dr Deepshikha Pande Katare