



**Name: Dr Veena B Kushwaha**

**Designation:** Professor

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**Date of Birth:** 30-10-1966

**Sex:** Female

**Education:**

S.NO.	Institution	Degree	Year	Division/Award
1.	K V Jorhat, Assam, CBSE	AISSE	1982	I
2.	K V Jorhat, Assam, CBSE	AISSCE	1984	I
3.	Govt. Degree College, Faridabad (M.D.University, Rohtak)	B.Sc.	1986	I
4.	M.D.University, Rohtak	M.Sc.	1988	I Gold Medal for first position.
5.	CSIR-Delhi	JRF	1988	
6.	M.D.University, Rohtak	Ph.D	1993	

**Research Experience in various institutions:**

Duration	Institution	Designation	Nature of work done
2 years	M.D. University Rohtak	JRF-CSIR (1988-90)	Research in field of drug delivery system
3 years	M.D. University Rohtak	SRF-CSIR (1990-93)	Research in field of drug delivery system
1 year	IIT-Delhi	Project Scientist (1995-96)	Development of bio-degradable polymers for drug delivery
1 year	IIT-Delhi	RA-CSIR (1996-97)	Controlled release of biologically active compounds
3 years 9 months	DDU Gorakhpur University, Gorakhpur	RA-CSIR (1997-2001)	Controlled release of biologically active compounds
4 years	DDU Gorakhpur	Lecturer	Teaching and research on plant

	University, Gorakhpur	(2001-05)	based molluscicides, Controlled release of biologically active compounds
5 years	DDU Gorakhpur University, Gorakhpur	Senior Lecturer (2005-2010)	Teaching, Research on natural products, Controlled release of biologically active compounds
3 years	DDU Gorakhpur University, Gorakhpur	Reader (2010-2013)	Teaching, Research on natural products, Controlled release of biologically active compounds
3 years	DDU Gorakhpur University, Gorakhpur	Associate Professor (2013-2016)	Teaching, Research on natural products, Controlled release of biologically active compounds
	DDU Gorakhpur University, Gorakhpur	Professor (since 2016)	Teaching, Research on natural products, Controlled release of biologically active compounds

### Research Publications

1. Chaudhary Krishma, **Kushwaha Veena Batra** and Srivastav Sunil Kumar, **2023**, Turmeric (*Curcuma longa*) Rhizome Extract and Selenium Protect Effects of *Nerium indicum* Leaf Extract on Serum Calcium and Phosphate of Male Wistar Rats, *International Journal of Zoological Investigations*, Vol. 9, No. 2, 1355-1364, ISSN: 2454-3055, <https://doi.org/10.33745/ijzi.2023.v09i02.152>
2. Pratima Vishwakarma, Nijendra Nath Tripathi, **Veena B. Kushwaha**, Siddhartha Kumar Mishra, **2023**, Orally Administered Aqueous Extract of *Pleurotus ostreatus* Ameliorates Hyperglycemia in Streptozotocin-Induced Diabetic Rats, **INNOSC Theranostics and Pharmacological Sciences** Vol. 6 (No. 1) pp: 1-14, ISSN 2705-0823, DOI: 10.36922/itps.273
3. Nikahat Fatma, **Kushwaha V.B.** and Srivastav Sunil K, **2023**, Ameliorative Effects of Amla (*Embllica officinalis*) Fruit Pulp Extract and Selenium on Dimethoate Induced Changes in Biochemical Parameters of Kidney in Rats, **International Journal of Zoological Investigations** Vol. 9, No. 2, 1050-1057, ISSN 2454-3055, <https://doi.org/10.33745/ijzi.2023.v09i02.117>
4. Ram Pratap, **Kushwaha V.B.** and Srivastav Sunil K, **2023**, Ameliorative Effects of Jamun Seed (*Syzygium cumini*) and Orange Peel (*Citrus sinensis*) Extracts on Cadmium Induced Alterations in Blood Urea, Uric Acid and Creatinine of Rat, **International Journal of Zoological Investigations**, Vol. 9, No. 2, 821-829, ISSN 2454-3055, <https://doi.org/10.33745/ijzi.2023.v09i02.092>

5. Yadav Ram Pratap, **Kushwaha V.B.** and Srivastav Sunil Kumar, **2023**, Toxicity of Cadmium and Lead in Mammal: A Brief Review, **International Journal of Zoological Investigations**, Vol. 9, No. 2, 722-729, ISSN 2454-3055, <https://doi.org/10.33745/ijzi.2023.v09i02.081>
6. Pratima Vishwakarma, Pooja Singh, **Veena B Kushwaha** and Nijendra Nath Tripathi, **2018** The effect of aqueous extract of some wild edible macrofungi on *in vitro* diffusion of glucose **KAVAKA**, 50: 34-37, ISSN 0379-5179 ISSN-L 0379-5179
7. **Veena B Kushwaha** and Preeti Singh, **2017** Effect of Ethanolic Extract of Different Parts of Plant (*Annona Squamosa*) on the Fertility of Male Rats, Biomedical Journal of scientific & Technical Research, 1(5) ISSN: 2574-1241, DOI: [10.26717/BJSTR.2017.01.000429](https://doi.org/10.26717/BJSTR.2017.01.000429)
8. Preeti Singh and **Veena B Kushwaha**, **2017**, Effect of ethanolic extract of the leaves of plant *Annona squamosa* on hematological and biochemical parameters in normal rats, **International Journal of Environment Agriculture and Biotechnology** 2(1), 273-276, ISSN:2456-1878.
9. **Veena B Kushwaha** and Mugdha Agarhari, **2016**, Effect of anthropogenic activities on the physico-chemical quality of river Rapti at Gorakhpur, India, **International Journal of Environmental Sciences** 5(1), 39-42, ISSN No.: 2319 1414.
10. **Veena B Kushwaha** and Mugdha Agarhari, **2015**, Effect of domestic sewage on Phytoplankton community of river Rapti at Gorakhpur, **International Journal of Life Sciences**, 3(2) 131-140, ISSN No.: 2320 7817(P), ISSN No.: 2320 964X(O).
11. **Veena B Kushwaha** and Geeta Bharti, **2015**, Effect of tartrazine on acid and alkaline phosphatases in the liver of albino rats, **World Journal of Pharmaceutical Research**, 4(10) 2867-2876, ISSN: 2277 7105.
12. **Veena B Kushwaha** and Geeta Bharti, **2015**, Effect of monosodium glutamate (MSG) administration on some antioxidant enzymes in muscles of adult male mice, **Journal of Applied Bio sciences**, 41(1) 54-56, ISSN: 0975 685X, eISSN: 0975 864X
13. **Veena B Kushwaha** and Aradhana Singh, **2014**, Molluscicidal capacity of Latex of *Calotropis procera* , **International Journal of Research in Engineering and Biosciences**, 2(6) 261-266, ISSN: 2321 743X
14. **Veena B Kushwaha** and Preeti Singh, **2014**, Effect of ethanolic effect of the seeds of *Annona squamosa* on mammalian blood, **American Eurasian Journal of Toxicological Sciences**, 6 (3) 52-57, ISSN: 2079 2050.
15. **Veena B Kushwaha** and Mugdha Agarhari, **2014**, Effect of domestic sewage on zooplankton community of river Rapti at Gorakhpur, India, **World Journal Zoology**, 9 (2) 86-92, ISSN: 1817 3098.
16. **Veena B Kushwaha**, **2014**, Management of Disaster in India, **Strategic Viewpoint**, 2(1 & 2) 95-100.

17. **Veena B Kushwaha** and Geeta Bharti, **2013**, Toxicological effect of Disodium 6-Hydroxy-5-[(4-Sulfophenyl)azo]-2-Naphthalenesulfonate on behavior of albino rats, **Advances in Biological Research**, 7(6) 223-227, ISSN 1992 0067.
18. **Veena B Kushwaha** and Geeta Bharti, **2013**, Tartrazine induced changes in rat, **Trends in Bio sciences**, 6(4) 366-369, ISSN: 0974 8431 print/ 0976 2485 online.
19. **Veena B Kushwaha**, **2013**, Biodiversity and War, **Strategic Viewpoint**, 1(2) 135-141.
20. **Veena B Kushwaha** and Shivani Maurya, **2013**, Alterations in liver biochemistry of albino rats exposed to ethanolic extract of *Parthenium hysterophorus*, **World Journal Zoology**, 8(1) 01-08, ISSN 1817-3098.
21. **Veena B Kushwaha** and Mugdha Agarhari, **2012**, Seasonal variations and diversity of planktons in river Rapti at Gorakhpur, **Advances in Life Sciences**, 1(2) 130-132, ISSN: 2278 3849 print/ 2278 4705 online.
22. **Veena B Kushwaha** and Shivani Maurya, **2012**, Biological utilities of *Parthenium hysterophorus*, **Journal of Applied and Natural Science**, 4(1) 137-143, ISSN: 0974-9411 print/ 2231-5209 online.
23. **Veena B Kushwaha** and Shivani Maurya, **2012**, Variation in acid and alkaline phosphatase activity in the liver of albino rats on exposure to sub lethal concentration of ethanolic extract of *Parthenium hysterophorus*, **International Journal of Current Research**, 4(8) 17-20, ISSN: 0975-833X, SJIF- 3.845
24. Mugdha Agarhari and **Veena B Kushwaha**, **2012**, Effect of domestic sewage on the physico-chemical quality of river Rapti at Gorakhpur, **The Bioscan**, 7(1) 135-138, ISSN: 0973 7049.
25. **Veena B Kushwaha** and Shivani Maurya, **2011**, Toxic effect of ethanolic extract of *Parthenium hysterophorus* on mammalian blood biochemistry, **J. Env. Bio-Sci**, 25(2) 155-160, ISSN: 0976 6913 print/ 0976 3384 online.
26. Aradhana Singh and **Veena B. Kushwaha**, **2011**, Toxicological evaluation of *Calotropis procera* against Freshwater Snails. **Journal of herbs spices and medicinal plants**. 17(1) 35-46, ISSN: 1049-6475 print/1540-3580 online, H index: 16
27. Shivani Maurya and **Veena B Kushwaha**, **2010**, Effect of ethanolic extract of *Parthenium hysterophorus* on Haematological parameters in rats. **The Bioscan**, 5(3) 437-440, ISSN: 0973 7049
28. **Veena B Kushwaha** and Shivani Maurya, **2010**, Toxicity study ethanolic extract of *Parthenium hysterophorus* in rats. **Trends in Bio sciences**, 3(2) 216-219, 6(4) 366-369, ISSN: 0974 8431 print/ 0976 2485 online.

29. S. K. Sen and **V. B. Kushwaha**, 2010, Cross-linked sodium carboxy methyl cellulose as swellable, degradable matrix for controlled release of pesticide, **Journal of Applied Biosciences**, 36(2) 148- 150, ISSN: 0975 685X print/ 0975 864X online.
30. **Veena B Kushwaha** and Aradhana Singh, 2010, Effect of uscharin on the reproduction of the snail *Lymnaea Acuminata*. **World Journal of Zoology**, 5(1) 15-19, ISSN 1817-3098
31. Amrita Singh, D.K.Singh and **V.B.Kushwaha**, 2008, Effect of acetogenins of *Annona Squamosa* on different developmental stage of *Anopheles stephensi* (Diptera: culcidae). **International Journal of Natural and Applied Sciences**, 4 (3) 266-269, ISSN: 0794 4713.
32. Amrita Singh, D.K.Singh and **V.B.Kushwaha**, 2007, Alginates as binding matrix for biomolluscicides against harmful snail *Lymnaea acuminata*. **J. Appl. Polym. Sci.**, 105(3), 1275-1279, ISSN: 0021 8995 print/1097 4628 online.
33. **V. B. Kushwaha**, S.K.Sen and D. K. Singh, 2004, Molluscicidal properties of leaves of four local plants against snail *Lymnaea acuminata*, **Biol. Memoirs.**, 30(2), 97-101.
34. **Veena B Kushwaha**, 1999, Permeation of molecules through different polymeric membranes, **J. Appl. Polym. Sci.**, 74, 3469-3472.
35. **V. Kushwaha**, A. Bhowmick, A.R. Ray and B.K.Behera, 1998, Sustained release of antimicrobial drugs from polyvinyl alcohol and gum arabica blends. **Biomat. Art. Cells, Blood Subs and Immob. Biotech.**, 26(2), 159-172.
36. **V. Batra**, A. Bhowmick, A.R. Ray and B.K.Behera, 1994, Sustained release of ferrous sulphate from polymer coated gum arabica pellets, **J. Pharm. Sci.**, 83(5),632-636.
37. **V. Batra**, A. Bhowmick, A.R. Ray and B.K.Behera, 1993, Controlled release of Diphtheria toxoid from biodegradable poly(d,l lactide-glicolide) microcapsules. Published in the Proceedings of **Polymer in Medicine and Surgery**, 1-3 Sept, The Netherlands.
38. **V. Batra**, A. Bhowmick, A.R. Ray and B.K.Behera, 1993, Modeling of drug release from polymer coated pellets. Published in the proceedings of Sixth National Conference on **Biomaterials and Artificial Organs**. SBAO, Calcutta, Feb. 14-15.

### Books

1. **Veena B Kushwaha** and Shivani Maurya (2012) Toxicological and biochemical evaluation of *Parthenium hysterophorus* against rat: Nuisance or boon?, Lambert Academic Publishing Gmbh &Co. KG, Germany. ISBN: 978-3-8484-1152-8.
2. **Veena B Kushwaha** and Aradhna Singh (2012) Toxicological and biochemical evaluation of *Calotropis* against snails: Herbal molluscicide, Lambert Academic Publishing Gmbh &Co. KG, Germany. ISBN: 978-3-659-19121-3.

3. **Veena B Kushwaha** and Subrat K. Sen (2012) Controlled release of molluscicides: formulation and evaluation, Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN: 978-3-659-12318-4.

#### Chapters in Book

1. **Veena B Kushwaha (2013)** Biopesticides in Transdisciplinary Environmental Issues in Environment in the focus of Science, arts, law, Humanities, literature, commerce and medicine, Ed. A. K. Dwivedi, Lambert Academic Publishing, AV Akademikverlag GmbH & Co. KG, Germany. ISBN: 978-3-659-35410-6.
2. Aradhna Singh and **V.B. Kushwaha (2010)** Potentials of *Calotropis procera*: an overview in Bioresources as a tool for rural livelihood: Vol 3: Biodiversity and Ecology, Ed. G.K.Kulkarni, Narendra Publishing House Delhi, India. ISBN: 978-93-80428-19-2.
3. **Veena B Kushwaha (2019)** Bioweapons and Biodiversity in Local Environmental Changes have Global Effect, vol 3, published by Swaranjali Publications, Ghaziabad, U.P., India, ISBN: 9789388838382
4. Pratima Vishwakarma, Pooja Singh, **Veena B Kushwaha** and N N Tripathi (2020) Evaluation of Edible Mushroom *Pleurotus florida* (Mont.) Singer in prevention and control of diabetes mellitus in Current Status of Research In Bio Sciences published by Today and Tomorrow Printers and Publishers, Daryaganj, New Delhi, ISBN: 9788170196617
5. **Veena B Kushwaha** and Preeti Singh (2020) Antifertility Effect of Ethanolic Extract of Seeds of Plant *Annona squamosa* in Male rats in Biodiversity and Development: Challenges of 21<sup>st</sup> Century published by Swaranjali Publications, Ghaziabad, U.P., India, ISBN: 9789389703085.
6. **Veena B Kushwaha (2022)** *Annona squamosa* and Its Bioactive Compounds: Their Biological Actions and Medicinal Applications in Environment & unsustainable Human Life (Volume IV) Biodiversity and its Conservation, VL Media Solutions, New Delhi, [www.vlmspublications.com](http://www.vlmspublications.com), ISBN: 978-93-91308-47-6.
7. **Veena B Kushwaha (2023)** Primary Sector in Uttar Pradesh: Status Issues and a Way Forward in Sustainable Development of Poorvanchal Issues, Strategies and Way Forward, Vol. II, pp199-231, Kitabwaley, 7/31, Ansari Road, Darya Ganj, New Delhi-110002, ISBN:978-93-90702-67-1
8. **Veena B Kushwaha (2023)**, Potential role of plants in regulation of male fertility in Sustainable Barebones of Animal Physiology pp1-16, Narendra Publishing House Delhi, India, ISBN: 978-56511-96-95

#### Research papers presented in seminars/conferences

1. Preeti Singh and **Veena B Kushwaha**, (2016) Effect of ethanolic extract of leaves of *Annona squamosa* on haematological parameters in rats in National Conference on changing environment, plant diseases and human health –vulnerability and impact assessment for adaptation to climate change :the road to future organized by Department of Botany, St. Andrew’s College, Gorakhpur.
2. **Veena B Kushwaha**, (2016), Hydrogels as wound dressing material in National conference on “Functional materials” organized by the Department of Physics, DDU Gorakhpur University, Gorakhpur. March 10-12.
3. Geeta Bharti and **Veena B Kushwaha**, (2014) Effect of MSG on some antioxidant enzymes in muscles of male mice, National Conference on “Challenges in Biological and Environmental Sciences in 21<sup>st</sup> century” organized by Department of Zoology, Sarswati Vidya Mandir Mahila P.G. College, Gorakhpur. December 19-20.
4. **Veena B Kushwaha**, (2014) Understanding differences between men and women, National seminar on “Bhartiya sanskriti mein sah-astitva ki avdharna evm uski vaishvik prasangikta organized by gorakhpur University Women Welfare association (GUWWA) at DDU Gorakhpur University Gorakhpur, August 23-24.
5. **Veena B Kushwaha**, (2014), Fecal coliform bacteria and water quality in National seminar on Recent trends in Microbiology, Department of Industrial microbiology, DDU Gorakhpur University, Gorakhpur, March 15.
6. Geeta Bharti and **Veena B Kushwaha**, (2014), Variation in activity of acid phosphatase and alkaline phosphatase in the liver of albino rats on exposure to sub lethal dose of Monosodium glutamate, International Conference on “Future prospects of advancement in biological sciences, health issues and environmental protection”, Indira Gandhi Pratishthan, Lucknow organized by Cytogene Research and Development and Society of Biosciences Health Issues and Environmental Protection, Lucknow, February 07-08.
7. Geeta Bharti and **Veena B Kushwaha**, (2013) Effect of monosodium glutamate on the behavior of rats, International conference HARMONY-2013 DDU Gorakhpur University, Gorakhpur, November 11-13.
8. Mugdha Agarhari and **Veena B Kushwaha**, (2013) Effect of domestic sewage on zooplankton population in river Rapti at Gorakhpur, International conference HARMONY-2013 DDU Gorakhpur University, Gorakhpur, November 11-13.
9. **Veena B Kushwaha**, (2013) XXXVI India conference of the Indian Botanical Society, Department of Botany, DDU Gorakhpur University, Gorakhpur, October 18-20.
10. **Veena B Kushwaha**, (2013) National Conference on “Drug discovery, threatened medicinal plants and strategies for sustainable use”, Department of Botany, St. Andrew’s College, Gorakhpur, September 25-26.

11. **Veena B Kushwaha, (2013)** National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
12. **Veena B Kushwaha, (2013)** 1<sup>st</sup> Uttar Pradesh science Congress, DDU Gorakhpur University, Gorakhpur, March 2-3.
13. Subrat K. Sen and **Veena B. Kushwaha (2013)** Alginates as binding matrix for sustained release of pesticides, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
14. G. Bharti and **Veena B. Kushwaha (2013)** Toxicity of sunset yellow on behavior of rats, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
15. Preeti Singh and **Veena B. Kushwaha (2013)** Variation in haematological indices and vital organ weight of male albino rats on exposure to ethanolic extract of *Annona squamosa* seeds, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
16. **Veena B. Kushwaha (2013)** Natural polysaccharides in controlled drug delivery system, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
17. Shivani Maurya and **Veena B. Kushwaha (2013)** Alterations in haematological parameters of rat on exposure to parthinin, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
18. Aradhna Singh and **Veena B. Kushwaha (2013)** Uscharin a potent molluscicidal compound against snail *Lymnaea acuminata* , National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
19. Mugdha Agarhari and **Veena B. Kushwaha (2013)** Plankton diversity of river Rapti at Gorakhpur, National Symposium on Advances in Zoology and Environmental Science, Department of Zoology, DDU Gorakhpur University, Gorakhpur, March 13-14.
20. G. Bharti and **V. B. Kushwaha (2011)** Effect of monosodium glutamate (MSG) administration on some antioxidant enzymes in muscles of adult male mice, 22<sup>nd</sup> All India conference of zoology and National seminar on recent advances in biological sciences: biodiversity and human welfare, University of Lucknow, December 29-31.
21. **Veena B Kushwaha (2011)** Climate change and human health, National Conference on Environmental Degradation vis-à-vis biodiversity Conservation , Department of Botany, M.L.K. (P.G.) College, Balrampur, U.P. November 05-06.



22. **Veena B Kushwaha (2011)** Climate change and its impact on human health, National Seminar on Climate Change and its Impact on Communities, Dr, R.M.L. Avadh University Faizabad, February 12-13.
23. Preeti Singh and **Veena B Kushwaha (2011)** Biological Actions and Medicinal Applications of *Annona squamosa* and its bioactive compounds, National Conference on Climate change and biodiversity, Department of Botany, DDU Gorakhpur University, Gorakhpur, January 21-22.
24. **Veena B Kushwaha** and Shivani Maurya (**2010**) Acute and chronic toxicity of *Parthenium hysterophorus* in rodents, National and Health Issues: In a Changing climatic Scenario, Maharishi Dayanand University Rohtak, October 14-15.
25. Shivani Maurya and **V.B. Kushwaha (2009)** Toxicological Evaluation of Parthenin, toxin of *Parthenium hysterophorus* in mice, National Conference of Biofunctions Biodiversity and Plant Resource Utilization, Gorakhpur, January, 30-31.
26. Aradhana Singh and **Veena B Kushwaha (2009)** Toxicity and Biochemical Evaluation of the root of *Calotropis procera* against harmful snails, National Conference of Biofunctions Biodiversity and Plant Resource Utilization, Gorakhpur, January, 30-31.
27. S.K.Sen and **Veena B Kushwaha (2008)**, Development of degradable control release pesticide for control of mosquitos. Published in the proceeding of National Conference on Pest Management: Retrospect and Future Prospect, Gorakhpur, December 06-07.
28. Aradhana Singh and **Veena B Kushwaha (2008)**, Molluscicidal activity of latex of *Calotropis procera*. Published in the proceeding of National Conference on Pest Management: Retrospect and Future Prospect, Gorakhpur, December 06-07.
29. S. K. Sen and **V. B. Kushwaha (2006)**, Cross-linked sodium carboxy methylcellulose as swell-able, degradable matrix for controlled release of pesticide. International Conference on Current Issues in Zoology and Environmental Science. Gorakhpur, November, 11-13.
30. S. K. Sen and **V. B. Kushwaha (2006)**, Controlled release of carbofuran from cross-linked poly vinyl alcohol matrix. Published in the proceeding of National Conference on Pest Management: Retrospect and Future Prospect, Gorakhpur, December 06-07.
31. **V. B. Kushwaha (2005)**, Use of polythene bags pose problems in Workshop on awareness of about the environment, organized at DDU Gorakhpur University, Gorakhpur, July 14.
32. **V. B. Kushwaha (2005)**, Sustained release of pesticides from natural polymeric gels at National Seminar on Biological chemistry: advancing frontiers, DDU Gorakhpur University, Gorakhpur, March 22, 23.

33. **V. B. Kushwaha (2005)**, Recent Development in biopolymers: applications, at National sensitization programme on Biotechnology organized by Small Industries service Institute at DDU Gorakhpur University, Gorakhpur, March 6.
34. **V. B. Kushwaha, (2005)**, Sustained release of pesticides from natural polymeric gels at National Seminar on Biological chemistry: advancing frontiers (22-23 March)
35. **V. B. Kushwaha, (2005)**, Recent Development in biopolymers: applications, at National sensitization programme on Biotechnology organized by Small Industries service Institute at DDU Gorakhpur University, 6 March.
36. **V. B. Kushwaha, (2002)**, Release of biologically active compounds from porous hydrophilic polymers at National conference on society for biomaterials and artificial Organs (13-14 Dec.)
37. **V. B. Kushwaha (2002)**, Release of biologically active compounds from porous hydrophilic polymers at National conference on society for biomaterials and artificial Organs, December 13, 14.
38. **V. Kushwaha, A. Bhowmick, A.R. Ray and B.K.Behera, (1996)**, Sustained Release of Antimicrobial Compounds from Poly vinyl alcohol and gum Arabica Blends, XIV National Symposium on Membranes in Chemical and Biochemical Industries, IIT Delhi, February 16,17.
39. **V. Batra, A. Bhowmick, A.R. Ray and B.K.Behera, (1992)**, Sustained Release of Biologically Active Compounds from Poly vinyl alcohol and gum Arabica Blends, V<sup>th</sup> National Conference on Biomaterials and Artificial Organs, CLRI Madras, January 14,15.
40. **V. Batra, A. Bhowmick, A.R. Ray and B.K.Behera, (1992)**, Controlled Release from Polyurethane Matrix, V<sup>th</sup> National Conference on Biomaterials and Artificial Organs, CLRI Madras, January 14,15.
41. **V. Batra, A. Bhowmick, A.R. Ray and B.K.Behera, (1992)**, Optimization of Release of Iron from Macromolecular Matrix, V<sup>th</sup> national Conference on Biomaterials and Artificial Organs, CLRI Madras, January 14,15.

### **Invited talk**

1. Delivered Lecture On “**Climate Change and Human Health**” in 4<sup>th</sup> Faculty Induction Programme on May 20, 2022 organized by HRDC DDU Gorakhpur University, Gorakhpur
2. Delivered Lecture On “**Preparedness for Disaser**” in 3<sup>rd</sup> Faculty Induction Programme on January 21, 2022 organized by HRDC DDU Gorakhpur University, Gorakhpur

3. Delivered Lecture On “**Disaser Management- Be Prepared Be Smart**” in 2<sup>nd</sup> Faculty Induction Programme on December 2, 2021 organized by HRDC DDU Gorakhpur University, Gorakhpur
4. Delivered Lecture On “**Cell Signalling**” in Winter School in Life Sciences on February 22, 2021 organized by Department of Zoology, Kurukshetra University, Kurukshetra, Haryana.
5. Chaired a Session and delivered a talk on “**Impact of War on Biodiversity**” in National Seminar on Biodiversity: Issues, Challenges and Opportunities (16-17 July, 2019) organized by Department of Zoology & Aquaculture, CCS HAU Hisar, Haryana, India.
6. Delivered Lecture on “**Green Technology**” on 26 July 2019 at UGC-Human Resource Development Centre, DDU Gorakhpur University, Gorakhpur in 115/116 orientation programme conducted from 13 July- 2 august,2019.
7. Delivered Lecture on “**Introduction to Toxicology**” on 26 July 2019 at UGC-Human Resource Development Centre, DDU Gorakhpur University, Gorakhpur in 115/116 orientation programme conducted from 13 July- 2 August, 2019.
8. Delivered Lecture on “**CBRN Disaster Management**” on 30 September 2019 at UGC-Human Resource Development Centre, DDU Gorakhpur University, Gorakhpur in short term course on Disaster Management conducted from 24- 30 September, 2019.
9. “**Impact of War on Biodiversity and Food Security**” on 20/01/2016 in 8<sup>th</sup> Refresher Course on “Nontraditional security in India: Challenges and Options” organized by Department of Defense and Strategic Studies, DDU Gorakhpur University, Gorakhpur.
10. “**CBRN Disaster Management**” on 19/01/2016 in 8<sup>th</sup> Refresher Course on “Nontraditional security in India: Challenges and options” organized by Department of Defense and Strategic Studies, DDU Gorakhpur University, Gorakhpur.
11. “**Climate Change and Human Health**” on 10/02/2016 at National Conference on Man and Biosphere organized by Department of Zoology, Marwar Business School Gorakhpur.
12. “**Antifertility potential of some medicinal plants in males.**” on 19/12/2015 in International symposium; frontiers of natural products research and human health & 2<sup>nd</sup> Annual meeting of Indian society for life science organized by Department of Zoology, DDU Gorakhpur University and Indian society for life sciences at Gorakhpur .
13. “**Environment and Disaster Management**” on 23/11/2015 in VI Refresher Course in Environmental Studies(ID) held at Human Resource Development Center, DDU Gorakhpur University, Gorakhpur.
14. “**Disaster management and national Security**” on 22/01/2015 in 7<sup>th</sup> Refresher Course on “New Dimensions of National Security in 21<sup>st</sup> Century” Organized by Department of Defense and Strategic Studies, DDU Gorakhpur University, Gorakhpur.
15. “**Controlled Release Technology**” on 23/09/2014 in 6<sup>th</sup> Refresher Course in Life Sciences organized by Department of Botany, DDU Gorakhpur University, Gorakhpur.

16. **Basic computer software (power point, Excel, Word)** in Orientation courses held at Human Resource Development Center, DDU Gorakhpur University, Gorakhpur.
17. “**Climate change and human health**” on 05/11/2011 in National Conference on Environmental Degradation vis-à-vis biodiversity Conservation organized by Department of Botany, M.L.K. (P.G.) College, Balrampur, U.P.

### **Awarded Doctoral Degrees**

1. Pharmacological evaluation for antifertility effect of plant *Annona squamosa* in albino mice/rat, **Preeti Singh, 2017.**
2. Toxicological and biochemical evaluation of food additives in rats/mice, **Geeta Bharti, 2016.** <http://shodhganga.inflibnet.ac.in/handle/10603/222390>
3. Impact of sewage disposal on water quality and self purification process in the river system, **Mugdha Agarhari, 2016.**
4. Faunistic survey of aphids and their natural enemies in southern eastern U.P. **Neetu Kumari Mall, 2015.**
5. Toxicological and biochemical evaluation of *Parthenium hysterophorus* against rat, **Shivani Maurya, 2010.**
6. Toxicological and Biochemical evaluation of plant *Calotropis procera* against harmful snails, **Aradhana Singh, 2009.**
7. Controlled Release of Molluscicides from Polymer Matrices, **Subrat Kumar Sen, 2007.**

### **Project**

1. Pharmacological evaluation for anti-fertility effect of the plant *Annona squamosa* in albino mice/rat, UGC New Delhi, India. [F. No.37-139/2009(SR)] Amount approved Rs. 9,70,800/- (Ongoing)
2. Controlled release of Molluscicides from Polymer Matrices, UGC New Delhi, India. [F. No.3-122/2003(SR)] Amount approved: Rs. 7,46,181/- (Completed), **2006.**

### **Refresher Courses/ Short term Courses**

1. UGC sponsored short term course on Analytical Chemistry and Measurement Science held on **09-15 October, 2014** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
2. UGC sponsored short term course on Fish, Fisheries and Water Pollution held on **13-19 February, 2014** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.

3. UGC sponsored short term course on Water held on **17-23 December, 2013** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
4. UGC sponsored Refresher course (4<sup>th</sup>) in Environmental Sciences held on **29 September-19 October, 2012** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
5. UGC sponsored short term course on Plant Medicine and health held on **01-07 September, 2012** at Department of Botany, DDU Gorakhpur University, Gorakhpur.
6. UGC sponsored Refresher course (3<sup>rd</sup>) in Environmental Sciences held on **10-30 September, 2011** at Department of Botany, DDU Gorakhpur University, Gorakhpur.
7. UGC sponsored Short Term Course Essentials of Research Guides held on **22-28 March, 2012** at Academic Staff College, DDU Gorakhpur University, Gorakhpur.
8. UGC sponsored Refresher course (3<sup>rd</sup>) in Environmental Sciences held on **10-30 September, 2011** at Department of Botany, DDU Gorakhpur University, Gorakhpur.
9. UGC sponsored Refresher course (6<sup>th</sup>) in Zoology held on **7-27 November, 2008** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
10. UGC sponsored Refresher course (II<sup>nd</sup>) in Botany (Emerging Trends in Bio sciences) held on **02-22 February, 2008** at Department of Botany, DDU Gorakhpur University, Gorakhpur.
11. UGC sponsored Refresher course (5<sup>th</sup>) in Zoology held on **08-28 November, 2006** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
12. UGC sponsored Refresher course (4<sup>th</sup>) in Zoology held on **11-31 March, 2004** at Department of Zoology, DDU Gorakhpur University, Gorakhpur.
13. UGC sponsored Orientation course (44<sup>th</sup>) held on **20 November -17 December, 2001** at Academic Staff College, DDU Gorakhpur University, Gorakhpur.

#### **Members of following societies**

1. Life member of Society for biomaterials and artificial organs, India.
2. Life member of International Society of Applied Biology, India.
3. Life member of Indian Academy of Environmental Sciences, India.
4. Life member of Advances in Life Sciences Journal, India.
14. Life member of Trends in Bio Sciences Journal, India.

#### **Awards (Fellowships and medals)**

<b>S.No.</b>	<b>Name of the award/recognition</b>	<b>Year of Award</b>	<b>National/International</b>	<b>Awarding Agency</b>
1.	Prof. Shashkala Belsare Gold Medal	2019	National	Indian Academy of Environmental Sciences, Haridwar
2.	Best Scientist award	2018	National	Society for life Sciences, Satna, M.P., India
3.	Honorary Fellowship of	2018	National	Society for life Sciences, Satna, M.P., India
4.	Research Associate-ship	1995	National	CSIR, New Delhi
5.	Senior Research Fellowship	1991	National	CSIR, New Delhi
6.	Junior Research Fellowship	1998	National	CSIR, New Delhi
7.	Gold Medal for securing 1 <sup>st</sup> position in (M.Sc.) University in	1988		Mahrishi Dayanand University, Rohtak, Haryana