

## Prof. Purshotam Kaushik

**Name** : Dr. Purshotam Kaushik  
**Sex** : Male  
**Date of Birth** : 2<sup>nd</sup> November, 1949  
**Designation** : Professor  
**Educational Qualifications** : M.Sc., Ph.D,  
Certificate Course in German

### Existing Memberships to Professional Bodies

- Life member, The Orchid Society of India, P.U., Chandigarh
- President & Life member of The Academy of Plant Science of India, 657/6 South Civil Lines, Muzaffarnagar
- Life Member, Indian Science Congress Association, 14 Biresw Guha Street, Kolkata
- Life Member, Indian Botanical Society
- Life Member, Association of Microbiologists of India

### Honours/Awards

- Received Certificate of Appreciation from the Orchid Society of India at Gangtok (Sikkim) April 12-13, 1997
- Awarded man of the Year 1998 of A B I ( U S A )
- Awarded `Vayumandal Ratna` of Rural Technology Development UP & Rural Development Technological Educational Council, Uttar Pradesh
- Received letter of Appreciation from Bharat Vikas Parishad, Panchpuri, Hardwar 2000-2001
- Awarded by APSI Gold Medal in the year 2003.
- Chaired one technical session and delivered one invited lecture in Indian Science Congress at ANGRAU, Hyderabad in 2006 and delivered one invited lecture and was expert of poster evaluation at NEHU, Shilong, Jan 3-7, 2009.

### Community Service

- Have delivered three talks on All India Radio under the programme Vigyan Patrika.
- Served as Doordarshan, K.D. Expert live telecast on the topic "Himalaya ke Orchid " on 08.08.1994 on DD-I.

### Ph. D. Produced

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Sl. No.	Name	Year	Title of Ph.D. Thesis
1.	Anil Kumar Dhiman	1997	A Survey of Medicinal Plants of Haridwar and Adjacent Regions vis – a – vis the Raw Plant Drugs being Sold in the Market
2.	Amit Kumar	2000	A Study of the Antibacterial Effect of Some Orchids
3.	Ajay Kumar	2001	Antibacterial Effect of Some Pteridophytes of Shivalik Ranges
4.	Vishal Upadhyay	2002	Antibacterial Effect of Some Plants of Family Apocynaceae and Solanaceae
5.	Ashima Hira	2003	A Study of Phytodiversity of Karnal with special Reference to Medicinal Plants

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6	Nishant Rai	2003	Molecular Characterization of Recombinant Plasmid containing Glycoprotein Gene of Rabies Virus and Evaluation of its Immunogenicity <i>Staphylococcus aureus</i>
7	Nagender Bhushan	2004	Survey, Isolation and Identification of Common Causative Agents of Urinary Tract Infection and Comparative Study of Antibacterial Effect of Antibiotics and Herbal Drugs on <i>Escherichia coli</i>
8	Darpan Sharma	2004	Physiopathological Studies of Some Blood Compounds of Human Beings Due to Some Microbial Diseases
9	Sachin Chauhan	2004	Molecular Cloning and Characterization of VP2 gene of Infections Bursal diseases Virus
10	Purushottam	2004	Isolation and Characterization of Bacterial Enteropathogens from Food, Environment and Diarrhoeal Patients
11	Umesh Kumar	2006	Antibacterial Activity of Some Medicinal Plants of Hardwar Region
12	Rajesh Kumar	2007	Solubilization of Insoluble Phosphorus through Cyanobacteria and its availability to Crops
13.	Anupama Gautam	2007	Microbiological and Ecological survey of River Ganga from Deoprayag to Rishikesh and Identification of Pollution Sources
14.	Abhishek Chauhan	2007	<i>In vitro</i> Study of Cyanobacterial Activity of Selected Cynobacteria
15	Arun Karanwal	2007	<i>Pseudomonas</i> as a Plant Growth Promoting <i>Rhizobacterium</i> in Rice ( <i>Oryza sativa</i> )
16	Sudarshan Kumar	2007	Prevalence, Isolation and Characterization of <i>Staphylococcus aureus</i> and Effect of Extract of Some Liverworts against <i>Staphylococcus aureus</i>
17	Jayant Raman	2008	Response of <i>Azotobacter</i> , <i>Pseudomonas</i> and <i>Trichoderma</i> on Growth of Apple Seedlings
18	Pankaj Goyal	2008	<i>In vitro</i> Antibacterial Activity of Vedic Guggal and some other Medicinal Plants
19	Shipra Singh	2008	Diversity and Field Applications of Vesicular Arbuscular Mycorrhizal Fungi Associated with Tea
20	Garima	2009	Evaluation of some Cyanobacteria for their Antimicrobial Potential
21	Supriya Gaur	2009	Study of Vesicular Arbuscular Mycorrhiza in some Medicinal Plants
22	Sachin Tyagi	2009	Evaluation of Commercial Polymerase Chain Reaction Kit and Bactec 460 TB System for the detection of <i>Mycobacterium tuberculosis</i> in Clinical Samples.
23	Ankur Sharma	2009	Study of Protective Efficacy of an oral DNA vaccine and an Ubiquitinated DNA vaccine against Visceral Leishmaniasis

No. of candidates registered at present : 6

## Publications

1. Kaushik, P. 1979. *Azadirachta indica* (Neem). The Rajasthan Ballad, 9: 3.
2. Kaushik, P. 1979. Has Science dimmed our spiritual values? The Rajasthan Ballad, 7:3.
3. Kaushik, P. 1979. Desert Medicinal Plant, Endangered. The Rajasthan Ballad, 5:3.
4. Kaushik, P. 1979. Plants feel shy The Rajasthan Ballad, 3: 2.
5. Kaushik, P. 1979. Life and its origin. The Rajasthan Ballad, 1 : 3.
6. Kaushik, P. 1979. Green Factories. The Fountain, Journal of M.R. College, Fazilka.
7. Kaushik, P. and Mehra P.N. 1979. Anatomy of Genus *Cyclogyne* (Orchidaceae) and its ecological and taxonomical bearing. Proceedings of symposium on "The Vegetational Wealth of Himalayan" (Oct. 1-6, 1979) University of Garhwal, Srinagar (U.P.), pp 45-46.
8. Kaushik, P. 1981. The Orchids (In Hindi) Aryabhata Vigyan Patrika Sept. pp47-52.
9. Kaushik, P. 1981. Palynology and its applications (In Hindi). Aryabhata Vigyan Patrika, April 1981, pp. 17-17.
10. Kaushik, P. 1981. A note on the Vegetation of Semi-Arid Bhiwani. Environment India, 4:80-82.
11. Kaushik, P. 1981. A note on the occurrence of *Oberonia falconeri* Hook, F. and *O pachyphylla* King & Pantl. in Khasi Hills (Meghalaya). Current Science, 50 (7): 329.
12. Kaushik, P. 1981. An unknown Archaeological site of District Bhiwani : Some Observations of Biological and Technological Interest. The Vedic Path, 44 (1) 55-62.
13. Kaushik, P. 1982. Anatomy of *Aerides* (Orchidaceae) and its Ecological and Taxonomical Bearing. Phytomorphology 32(2,3): 155-164.
14. Kaushik, P. 1982. Our depleting forest resources and the problem of their conservation. Environmental Management Education, New Delhi, Sept. 23,1982. The Vedic Path : Qua. Jour. Indo. Sci. Research.
15. Kaushik, P. 1982. Development of Pomology in the desert: Sweetness of Seb, Gola and *Mundia* (in Hindi). Aryabhata Vigyan Patrika, April 1982, pp. 14-18.
16. Kaushik, P. 1983. Some endangered plant species of India. Proceedings of the Conference on `Environmental Conservation and Enrichment held at Gurukula Kangri University, June 5-6, 1983, pp. 44-47.
17. Kaushik, P. 1983. Glimpses of Medical Botany in Atharvaveda (Kand 1-3) Proceedings of National Workshop on Vedic Education, Gurukula Kangri University, Hardwar, Sept. 4-8, pp. 196-203.
18. Kaushik, P. 1983. Ecological and Anatomical Marvels of the Himalayan Orchids. Today and Tomorrow's Printers and Publishers, New Delhi, pp VIII + 123 + plates 71, size 29x22 cm 8<sup>th</sup> Volume of Progress in Ecology series by eminent scientists.
19. Kaushik, P., Vij., S.P. and Sehgal, R.N. 1984. Comparative study of wood of some trees. J. Tree Sci. Vol. 3 (1&2): 146-148.
20. Kaushik, P. 1984. Lectins, receptor specific multifunctionary proteins. J. Sci. Res. Pl. Med, 5 (3, 4): 34-38.
21. Kaushik, P. 1984. Lectin from different parts of the seeds of *Dolichos*. Proc. Indian natn. Sci. Acad. B 59 (2): 242-244.
22. Kaushik, P. 1985. Dumb Tribals of Silent Valley. Arya Bhatt Vigyan Patrika, March, pp 51-55.
23. Kaushik, P. 1985. Trek to Silent Valley. The Hawk, Vol. 7, No. 162, pp. 1-5.
24. Kaushik, P. 1985. Orchid Trade between East and West. *The Vedic Path*. Qua. Jour. Indo. & Sci. Research 47 (4) 40-43.
25. Kaushik, P. 1985. Glimpses of Medical Botany n Atharvaveda (Khand IV). *The Vedic Path*. Qua. Jour. Indo. & Sci. Research 48(2): 64-67.
26. Kaushik, P. 1986. Effect of Carbon dioxide enrichment on Orchids, 71-73. In Biology, Conservation and Culture of Orchids. (Edited by S.P. Vij) Affiliated East West Press., New Delhi.
27. Kaushik, P. 1986. Microbes of the soil useful in Agriculture and Forestry. Arya Bhatt Vigyan Patrika, Sept. pages 20-22.
28. Kaushik, P. 1988. Mycorrhizae in Forest Eco-system. Arya Bhatt, 7(1): 39-49.

29. Kaushik, P. Medicinal Orchids from Atharvaveda to modern Pharmaceutical Concerns. Current Research Trends in Indian Orchids with special reference to Tissue culture technology (Abstracts), N.E.H.U., Shillong.
30. Kaushik, P. 1988. An inexpensive culture medium for Orchid seed germination. Current Research Trends in Indian Orchids with special reference to Tissue culture technology (Abstracts), N.E.H.U., Shillong.
31. Kaushik, P. 1988. Mycorrhizal Investigations in some epiphyte and terrestrial Orchids. N.E.H.U., Shillong.
32. Kaushik, P. 1988. Vegetative anatomy of some terrestrial orchids.
33. Kaushik, P. 1988. Undistributed ecosystem are best reservoirs of inoculants for biofertilizers. Souvenir and Abstract. National conference on Sustainable Ecosystem and Environment, GKV, Haridwar, pp 64.
34. Kaushik, P. and Kulshrestha, V.V. 1989. Characterization of Lectins- the receptors specific proteins from some plants of Western Himalayas, pp 94. 32<sup>nd</sup> Harden Conference, The Biological Society, London. Chairman R.H. Michell, F.R.S.
35. Kaushik, P. 1989. Anatomy of some Orchids in aid to their taxonomy in M.L. Sharma and S.P. Khullar (eds) Plant Systematics: Advances and Trends, P.U. Chandigarh.
36. Kaushik, P. Sharma, S.K. and Kumar, S. 1990. Mycorrhizal investigations in some Orchids. Pages 22-23. In B.L. Jalali and H. Chand (eds.) Current Trends in Mycorrhizal Research. H.A.U., Hissar.
37. Kaushik, P. and Kishore, N. 1991. Antibacterial potential of *Pholidota articulata* Lindl. A study *in vitro*. J. Orchid Soc. India, 5 (1, 2): 93-96.
38. Kaushik, P. 1991. The cell: structure and functions. Jour. Sci. Res. Pl.Med. 12 (3,4): 5-23
39. Kaushik, P. 1991. Anton van Leeuwenhoek. Vigyan Garima Sindhu.(in Hindi). Ministry of Education, Govt. of India, 11:4.
40. Kaushik, P. 1991. The Bacterial Lectins. Jour. Sci. Res. Pl. 12 (1 -2): 8-10.
41. Kaushik, P. 1993. DNA and Reincarnation. Jour. Sci. Res. Pl. Med. 13-14: 5-22.
42. Kaushik, P. 1994. Vanilla. Vigyan Garima Sindhu (Ministry of HRD, Govt. of India) volume 16: 71.
43. Kaushik, P. and Dhiman, A.K. 1995. Laukpriya Anshadh Paudhe aur unka upyog (In Hindi). Vigyan Garima Sindhu (Ministry of HRD) 17: 33-40.
44. Kaushik, P. and Kishore, N. 1995. Antibacterial activity of *Dendrobium amoenum* Wall. Ex Lindl. a study *in vitro* J. Orchid Soc. 9 (1-2): 33-35.
45. Kaushik, P. and Dhiman, A.K. 1995. Common Medicinal Pteridophytes. Indian Fern J. 12: 139-145.
46. Kaushik, P. 1996. Indian Orchids: problems and prospects, pp 6-7. Current Trends in Biotechnology and Plant Pathology & Prof. Uma Kant Felicitation Function, Botany Department University of Rajasthan, Jaipur.
47. Kaushik, P. and Vats, D. 1996. Sukshma Jaiviki Ka Vikas (in Hindi), pp 199-203. Vajjyanic Shabdawali Anuwad avam Maulik Lekhan. Scientific and Technical Terms Commission, Ministry of Human Resource Development, Govt. of India.
48. Kaushik, P., Buttar, P.K. and Saini, S. 1997. Microbial Amylase. Gurukul Kangri Vigyan Patrika Arya Bhatt. (1): 51-58.
49. Kaushik, P. and Dhiman, A.K. 1997. Vedic Medicinal Plants. Advances in Plant Sciences, 9(11) Supplement.:1-12.
50. Kaushik, P. 1997. *In vitro* antibacterial activity of *Cleisostoma micranthum* K. & P. Ibid: 9 (11) supplement: 81-84.16.
51. Kaushik, P. and Ghanaksh, A. 1998. Water Quality of Bathing Ghats of Ganga at Hardwar. National Symposium on Faunistic Biodiversity, Environmental Monitoring & Biotechnology. Department of Zoology & Environmental Sciences, G.K.V, Hardwar, page 29.
52. Kaushik, P. 1998. Mycorrhiza and Orchid Conservation, pp 141-149. In I.S. Grover and A.K.Thukral (Eds.) Environment and Development. Scientific Publishers, Jodhpur.
53. Kaushik, P. 1998. Orchids- a journey from Shakespear's Theatre to Modern Drug Houses, pp 9-18. In A.P. Puniya (Ed.) Herbal Medicines: Applications of Biotechnology and Futuristic Approach. S.B.S. PGI of Bio-Medical Sciences and Research, Balawala, Dehra Dun.

54. Kaushik, P. 1998. Orchids Vanaspati Jagat Ka Gaurav (in Hindi). Vigyan Garima Sindhu (Ministry of HRD, Govt. of India) volume 25: 87-97, 6 drawings.
55. Dhiman, A.K. and Kaushik, P. 1998. Avenue for conservation of Environment at Hardwar. Souvenir and Abstracts, G.K.V., Haridwar pp 28.
56. Kaushik, P. and Dhiman. 1999. Therapeutic Herb "Brahmi" *Centella asiatica*: A Review. Ad. Biosciences. 18 (II): 7-16.
57. Ghanaksh, A. and Kaushik, P. 1999. Antibacterial effect of *Aerides multiflora* Roxb. : A study *in vitro*. J. Orchid Soc. India, 13(1-2): 65-68.
58. Ghanaksh, A. and Kaushik, P. 1999. Antimicrobial Activity of *Rhynchostylis retusa* Bl. (Orchidaceae). A study *in vitro*. Ad. Plant Sci. 12 (II): 593-98.
59. Kaushik, P. and Upadhyay, V. 1999. Antimicrobial activity of Plant Extract of Garlic (*Allium sativum*) pp. 129-132. In D.R. Khanna, A. Gautam and A. Gautam (Ed.). Sustainable Ecosystem of Environment. ASEA. Malviya Marg, Rishikesh.
60. Kumar, A. and Kaushik, P. 1999. Antimicrobial Effect of *Adiantum capillus-veneris* Linn. Indian Fern Journal. 16 : 72-74.
61. Kaushik, P and Sharma, I.K. 1999. Biological Remedies for Ground Water Pollution (Jointly with I.K. Sharma). Souvenir and Abstracts. National Seminar on Plant Genetic Diversity. Evaluation and Conservation. Botany Department, Panjab University, Chandigarh, Page 17-18.
62. Kaushik, P., Upadhyay, V. and Singh, P. 2000. Antibacterial Potential of Bryophytes. The Botanica. 50 : 132-136.
63. Kaushik, P. and Yograj Singh. 2000. Antimicrobial Activity of Extract of Rhizome of *Curcuma longa*. J. Indian bot. Soc. 79 : 191-92.
64. Rai, N., Kaushik, P., Kataria, R.S., Tiwari, A.K. and Rai, A. 2002. Molecular Cloning and Restriction Enzyme analysis of Bovine Herpes virus-I DNA fragment Amplified by Polymerase Chain Reaction. Indian J. Comp. Microbiol. Immunol. Infect. Dis. 23 (1) : 17-19.
65. Upadhyay, V. and Kaushik, P. 2002. Antibacterial Potential of *Cascabela thevetia* leaf extract Against *Escherichia coli* – A Study *in vitro*. Environment Conservation Journal. 3 (1) : 19-23.
66. Upadhyay, V. and Kaushik, P. 2002 Antibacterial Effect of *Cascabela thevetia* Plant Extract - A study *in vitro*. Ad. Plant Sci. 15 (1) : 335-336.
67. Upadhyay, V. and Kaushik, P. 2002 Antibacterial Effect of *Plumeria articulata* leaf extract – A Study *in vitro*. Journal of Eco-Physiology. 5 (1-2) : 55-57.
68. Kaushik, P., Kumar, S. and Arora, A. 2002. Characteristics and Clinical Manifestations of *Staphylococcus aureus*. The Botanica. 52 : 126-133.
69. Kaushik, P. and Gupta, N. 2002. Study of Untreated and treated Sewage of S.T.P. and Lakarghat (Rishikesh). Eco-Research Journal of Biosciences. 1 (1) : 20-24.
70. Chauhan, S., Kaushik, P., Rai, A. and Rai, D.V. 2003. Cloning of VP 2 gene of Infectious Bursal Disease Virus of Poultry for Developing DNA vaccine. XXI IPSACON: 147.
71. Kumar, R. and Kasuhik, P. 2004. Isolation of a cellulase producing Mycorrhizal Fungus *Rhizoctonia solani* from *Zeuxine strateumatica* (Linn.) Schltr. J. Orchid Soc. India. 18 (1-2) : 101-108.
72. Rai, A., Kaushik, P. and Rai, A. 2005. Development of Rabies DNA vaccine using a Recombinant Plasmid. Acta Virologia. 49 : 207-10.
73. Rai, N. , Kaushik, P. and Rai, A. 2006. Expression of cloned rabies glycoprotein gene in mammalian cells. Indian Journal of Virology. 17 : 18-22.
74. Ghanaksh, A. and Kaushik, P. 2007. Antibacterial potential of Therapeutic Orchids. J. Orchid Soc. India 21(1-2): 23-27.
75. Rajkumar and Kaushik, P. 2007. Isolation of *Rhizoctonia solani*- a cellulose producing Mycorrhizal Fungus from *Zeuxine strateumatica* (L.) Schltr. J. Orchid Soc. India, 21 (1-2): 3-6.
76. Kaushik, P. and Chauhan, A. 2008. Antibacterial potential of aqueous and organic extracts of *N.commune*: a Cyanobacterium Vegetos 21 (1): 77-80.
77. Kaushik, P. and Goyal, P. 2008. *In vitro* evaluation of *Datura innoxia* (thorn apple) for potential antibacterial activity. Indian J. Microbiol. 48 (3): 353-357.

78. Kaushik, P. and Chauhan, A. 2008. *In vitro* antibacterial activity of laboratory grown culture of *Spirulina platensis*. *Indian J. Microbiol.* 48 (3): 348-352.
79. Goyal, P., Khanna, A., Chauhan, A., Garima and Kaushik, P. 2008. *In vitro* evaluation of crude extracts of *Catharanthus roseus* for potential antibacterial activity. *International Journal of Green Pharmacy*, 2(3): 176-181.
80. Kaushik, P., Chauhan, A., Chauhan, G. and Goyal, P. 2008. Evaluation of *Nostoc commune* for potential antibacterial activity and UV-HPLC analysis of methanol extract. *The Internet Journal of Microbiology*. Volume 5, Number 1.
81. Kaushik, P., Goyal, P., Chauhan, A. and Chauhan, G. 2009. *In vitro* evaluation of antibacterial potential of dry fruit extracts of *Elettaria cardamomum* Maton (Chhoti Elaichi). *Iranian Journal of Pharmaceutical Research* (Accepted).
82. Goyal P., Chauhan A. and Kaushik P. 2009. Laboratory Evaluation of Crude Extracts of *Cinnamomum tamala* for Potential Antibacterial Activity. *Electronic Journal of Biology*, 5(4): 75-79.
83. Kaushik, P., Chauhan, A., Chauhan, G. and Goyal, P. 2009. Antibacterial potential and UV-HPLC analysis of laboratory-grown culture of *Anabaena variabilis*. *Internet Journal of Food Safety*, 11: 11-18.
84. Kaushik, P., Garmia, Chauhan, A. and Goyal, P. 2009. Screening of *Lyngbya majuscula* for potential antibacterial activity and HPTLC analysis of active methanolic extract. *Journal of Pure & Applied Microbiology*, 3(1): 169-174.
85. Gupta, P.C., Batra, R., Chauhan, C., Goyal, P. and Kaushik, P. 2009. Antibacterial activity and TLC Bioautography of *Ocimum basilicum* L. against pathogenic bacteria. *Journal of Pharmacy Research*, 2(3): 407-409.
86. Goyal P., Chauhan A. and Kaushik P. 2010. Antibacterial activity of fermentation broth of various actinomycetes strains and enhancement of broth activity through UV induced mutagenesis. *International Journal of Life Sciences and Technology*, 3(1): 1-6.
87. Goyal, P., Chauhan, A. and Kaushik, P. 2010. HPLC analysis and antibacterial activity of various extracts from leaves of *Calotropis gigantea* L. *International Journal of Pharmagenesis*, 1(1): 97-102.

### Book Reviews

1. Kaushik, P. 1985. *Ergot Production in India* : K.S.M. Sastry, C.K. Atal and B.M. Kapur, C.S.I.R., Jammu Tawi, Indian Book Chronicle.
2. Kaushik, P. 1991. *Vanaspati Shastra* (in Hindi): G.S. Nathavat, P.D. Sharma and R.K. Sahni. Ramesh Book Depot, Jaipur (1988) 784pp. In I.B.C. 17(9): 18.
3. Kaushik, P. 1992. *Ecology of the mountain Waters* : S.K. Bhatt and R.K. Pandey. Ashish Publishing House, New Delhi pp. 389, I.B.C. 17 (9): 18.
4. Kaushik, P. 1993. *Himalayan Botanical Researches* : S.P. Khullar and M.P. Sharma, Ashish Publishing House, New Delhi (1991). Indian Book Chronicle August, Pages 14-15.

### Contributory Chapters

1. Dhiman, A. K. and Kaushik, P. 1999. Avenue Trees for Conservation of Environment at Haridwar. pp. 85 - 89. In D.R. Khanna, Ashutosh Gautam and Aditya Gautam (Eds.) 'Sustainable Ecosystem and Environment'. Action for Sustainable Development and Awareness (ASEA), Rishikesh.
2. Dhiman, A.K. and Kaushik, P. 2000. Pollution Tolerant Plant Species at Haridwar, pp 352-359. In A.K. Thukral and G.S. Virk (Eds.) Environmental Protection. Scientific Publishers, Jodhpur.
3. Dhiman, A.K. and Kaushik, P. 2000. Medicinal Uses of Some Spice Plants as in Ancient Literature, pp 19-26. Recent Trends in Spices and Medicinal Plants Research. Associated Publishing Co., New Delhi.
4. Kumar, A. and Kaushik, P. 2002. Antibacterial Effect of *Equisetum arvense* Linn. and *Lygodium japonicum* Swartz., pp 173-176. In P.C. Trivedi (Ed.) Advances in Pteridology. Pointer Publishers, Jaipur.
5. Kaushik, P. and Sharma, I.K. 2003. Biological Remedies for Ground Water Pollution, pp 119-127. Advances in Microbiology. Scientific Publishers (India) P.O. Box 91, Jodhpur-342 001.

6. Kaushik, P. and Tyagi, S. 2005. Recycling of Tree Leaf Litter, pp 77-83. In Kappor, K.K., Sharma, P.K., Dudeja, S.S. and Kundu, B.S. (Eds.) Management of Organic Wastes for Crop Production. Department of Microbiology. CCS Haryana Agricultural University, Hissar – 125 004.
7. Kausik, P. and Chauhan, P. 2007. Biopesticides, a scenario in India : Present and Future Scope, pp 99-129. In Arya, A. and Cecilia, M. (Ed.) Seed Borne Diseases : Ecofriendly Management. Scientific Publishers (India), 5 –A, New Pali Road, P.O. Box 91, Jodhpur – 342 001.
8. Kaushik, P. and Tyagi, S. 2007. Biofilms : Fundamentals, pp 231-239. In P.C. Trivedi (Ed.) Biotechnology.: Current Perspectives and Potential Applications. Avihskar Publihsers, Distributors, Jaipur.
9. Kaushik, P. and Gaur, S. 2007. Methods for Arbuscular Mycorrhizal Research, pp 260-285. In M. Tiwari and S.C. Satti (Editors) The Mycorrhizae: Diversity, Ecology and Applications. Daya Publishing House, New Delhi.
10. Kaushik, P., Goyal, P. and Surbhi. 2008. Impact of Microbial Diversity in Restoration of Forest Ecosystem. Pp. 94-99. In P.C. Tiveda (Ed.) Palaebotany to Modern Botany, Pointer Publihsers, 807 Vyas Building, Chaura Rasta, Jaipur.

### **Books and Research Monographs**

1. Ecological and Anatomical Marvels of the Himalayan Orchids. Today and Tomorrow's Printers & Publishers, 24 B/5 Desh Bandhu Gupta Road, Karol Bagh, New Delhi-110005 PP viii + 123 + Plates 71. A research monograph. 1983
2. "Environmental Conservation and Enrichment" Proceedings of the Conference held at Gurukul Kangri University, June 5-6,1983 (Jointly with Dr. V. Shanker) 1983
3. "Conservation and Ethnobotanical Aspects of Indigenous Medicinal Plants (Including Microbes and Fungi) Abstracts, pages, 51, Gurukul Kangri Vishwavidyalaya, Hardwar. 1986
4. Proceedings of the above seminar Indigenous Medicinal Plants Including Microbes and Fungi. Today and Tomorrow's Printers & Publishers, 24 B/5 Desh Bandhu Gupta Road, Karol Bagh, New Delhi-110015. Pp viii+243. 1988
5. Introductory Microbiology. Emkay Publications, Post Box 9410, B-19, East Krishna Nagar, Swami Dayanand Marg, Delhi-110051, pp viii +344. 1996
6. "Scope of Microbiology in Agriculture and Industry and information on Medicinal Plants". Abstracts and Souvenir. The Academy of Plant Sciences of India, pp 1-61. (Jointly with Dr. S.K. Gupta) 1996
7. "Medicinal Plants and Raw Drugs of India." Bishen Singh Mahendra Pal Singh, 23 A Connaught Place, Pox Box No. 137, Dehradun pp XII + 623 with 60 colour and B.W. plates. (Jointly with Dr. A.K. Dhiman). 2000
8. Introductory Microbiology. 2nd edition. Emkay Publications, Post Box 9410, B-19, East Krishna Nagar, Swami Dayanand Marg, Delhi-110051. Pp XII +466 2000
9. "Microbiology: Questions and Answers". A. H. Wheeler & Co. Ltd. 411 Surya Kiran, 19, K.G. Marg, New Delhi-110001, pp XII+180. 2000
10. Haridra (Turmeric) : Antibacterial Potential. Chowkhamba Sanskrit Series Office. Gopal Mandir Lane, Near Golghar (Maidagin), Varanasi. Pp 1-123, coloured plates 16,2003
11. Cytology, Genetics and Evolution. Faculty of Distance Education, Gurukul Kangri University, Hardwar – 249 404 ,2006
12. Microbiology : Questions and Answers. S.Chand & Co. Ltd., 7361, Ram Nagar, New Delhi. Pp. XII + 1-276. 2008.
13. Kaushik, P. 2009. 2<sup>nd</sup> Enlarged Edition. Indigenous Medicinal plants including Microbes and Fungi. Today and Tomorrow's Printers and Publishers, 4436/7, Ansari Road Daryaganj, New Delhi 110002, pp XIV+ 1-664.
14. Kaushik, P. and Chauhan, A. 2009. Cyanobacteria: Antibacterial Activity, New India Publishing Agency 101, Vikas Surya Plaza, CU Block, Pitam Pura, New Delhi – 11 00 88, pp XIV + 1-198.
15. "Environmental Biology of the Himalayan Orchids" The Hand written manuscripts al most ready for sending to the press. With about 100 coloured and Black and White photographs.

16. Research monograph and books have been reviewed in Kew Bulletin of England, one of the most widely circulated taxonomic journals of the world and other national & international journals and have been highly appreciated.

**Research Projects (completed)**

<b>Title of research</b>	<b>Funding agency</b>	<b>Period duration (years)</b>	<b>Year of completion/to be completed</b>	<b>Whether PI or Co-PI</b>
Integrated Study of Ganga	D.O. En New Delhi	3	1983-86	Co-PI
Study on Environmental Biology of the Himalayan Orchids	M.O. En. New Delhi	3	1987-90	PI
Characterization of Lectins from Leguminous Seeds and Bulbous Plants of the Western Himalayas	U.G.C.	3	1987-90	PI