

## Bio-Data



### **Dr. R.C. Dubey**

*Professor & Head, Department of Botany & Microbiology*

*Dean, Research, GKV, Haridwar*

*Dean, Faculty of Medical Sciences and Health*

*Chairman, Institutional Animal Ethical Committee*

*Former Dean, Faculty of Life Sciences*

Gurukul Kangri Vishwavidyalaya, Haridwar-249 404

Uttarakhand

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### **Educational Qualifications** :

- M.Sc. (Botany) from Banaras Hindu University
- Ph.D. (Botany) from Banaras Hindu University

**Specialisation** : Microbiology, PGPR, Microbial Biotechnology, Plant Pathology

### **Additional Qualification** :

- *Diploma* in Yoga (from Banaras Hindu University)
- *Madhyama* in *Srimat Bhagavat Geeta* (from Banaras Hindu University)

### **Employment History:**

- Professor, Department of Botany & Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand *w.e.f.* 12<sup>th</sup> September, 2004
- Reader, Department of Botany & Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar from 12<sup>th</sup> September, 1996 to 11<sup>th</sup> September, 2004
- Lecturer, Kumaun University, Nainital, Uttarakhand, from 8<sup>th</sup> September, 1987 to 11<sup>th</sup> September, 11<sup>th</sup> September, 1996

### **Academic Performance:**

- 1. Research Experience** : 33 Years
- 2. Teaching Experience** : 33 years
- 2. Number of Ph. Ds. Produced** : 25 (*see Ann-I*)
- 3. Publications** : (*see Ann-II*)
  - Books : 14
  - Research Papers : 173  
(*see Ann-II*)
- 4. Number of Students Registered for Ph. D. Degree:** 04
- 5. Any honour/award** :
  - Received a '**Certificate of Merit**' from the Vice Chancellor (B.H.U., Varanasi)

### **6. Fellow of the Academic Bodies:**

- Life member and Fellow of the Indian Botanical Society (FBS)

- Life member and Fellow of the Indian Phytopathological Society (FPSI)
- Life member and fellow of the International Society for Conservation of Natural Resources (FNRS)

#### 7. Member of Professional Bodies:

- *Nominated Member*, New York Academy of Sciences
- *Associate Editor*( 2000-2003) - The Journal of the Indian Botanical Society (JIBS)
- *Member* (2005-2008) - Editorial Board - Environmental Biology and Conservation
- *Member* (2008) - Academic and Evaluation Committee, State Biotechnology Programme, Govt. of Uttarakhand.
- *Convenor*- Preparation of **Biotechnology Fundamental Glossary**- Council for Scientific & Technical Terminology, HRD Ministry, Gov. of India, (Oct, 2007)
- *Convenor*- Preparation of **Biotechnology Glossary**- Council for Scientific & Technical Terminology, HRD Ministry, Gov. of India, (March, 2010)
- *Convenor*- Preparation of **Biotechnology Glossary**- Council for Scientific & Technical Terminology, HRD Ministry, Gov. of India, (May, 2012)
- *Councillor*- The Indian Botanical Society (2011-2013)
- *Member*- Member of Research Degree Committee (RDC) and Board of Studies (BOS) of Botany and Microbiology in several Universities.
- *Member*- Board of Science Faculty (विज्ञान संकाय मण्डल), Kumaun University, Nainital (8/11/12 – 7/11/15)
- *Chairman*- Institutional Animal Ethical Committee (IAEC) (2015-Feb 2016)
- *Chairman*- Institutional Animal Ethical Committee (IAEC) (Feb 2016-2021)
- *Member*, Board of Studies, Department of Botany & Microbiology HNB Garhwal Univ., Srinagar, (2017 – 2019)
- *Member*, Board of Management of Gurukul Kangri Vishwavidyalay, Haridwar, (2018 – 2019)

#### 9. Gene Sequences submitted to GenBank (NCBI)

(see Ann-III)

#### 10. Seminar/Workshop/Meeting Organised:

(see Ann-IV)

#### 11. Seminar/ Conference Attended/ Delivered lectures:

(see Ann-V)

#### 12. Research Projects Completed:

(see Ann-VI)

#### 13. Brief Resume:

(see Ann- VII)

**Ann-I**

**Ph. Ds. Produced : 25**

Sl. No.	Name	Year	Title of Ph.D. Thesis
1	Harish Singh Ginwal	1995	Studies on ectomycorrhizae in different Central Himalayan oak forests and their role in nursery practices
2	Praveen Singh Rawat	1998	Biology of ectomycorrhiza associated with chir-pine and deodar in Kumaun Himalaya.
3	Mukund Dev Behara	2000	Biodiversity characterisation at landscape level in subansari District, Arunachal Pradesh (Eastern Himalaya) using remote sensing and GIS
4	Sunita Pandey	2001	Studies on fungitoxic properties of Neem extracts on <i>Macrophomina phaseolina</i> (Tassi) Goid. causing root rot of soybean
5	Manoj Bhatt	2002	Studies on artificial co-inoculation of Deodar seedlings with some ectomycorrhizal fungi and mycorrhizosphere bacteria

6	Anurag Yadav	2002	Studies on artificial co-inoculation of Oak ( <i>Quercus leucotrichophora</i> ) seedlings with some ectomycorrhizal fungi and mycorrhizosphere bacteria
7	Shivani Bhatia	2002	Biological control of <i>Sclerotium rolfsii</i> causing collar rot of sunflower ( <i>Helianthus annuus</i> L.) Through <i>Pseudomonas</i>
8	Himanshu Vashishtha	2002	Antimicrobial properties of some bryophytes against selected human pathogens
9	Sangeeta Saini	2005	Antimicrobial effects of essential oils of some higher plants
10	Anika Rana	2006	Antimicrobial properties of essential oils of some locally available medicinal plants
11	Varun Kumar	2007	Enhancement of productivity of <i>Sesamum indicum</i> through nutrient management and <i>Azotobacter</i> inoculation
12	Kamlesh Choure	2008	Role of microbial consortium and N, P, K & S in control of fusarial wilt of <i>Cajanus cajan</i>
13	Satyajeet Khare	2009	Isolation of bacilli from disease-suppressive soils and their role against deleterious phytopathogens
14.	Shailu Dalal	2010	Bioremediation of industrial effluents by phenol- and cyanide-degrading bacteria
15.	Harish Kumar	2011	Plant growth promoting rhizobia in enhancement of productivity of medicinal legume ( <i>Trigonella foenu-graceum</i> (L.))
16.	Pankaj Kumar	2012	Screening of plant growth promoting rhizobacteria from <i>Phaseolus vulgaris</i> L. and their exploitation for enhancement of growth and yield
17	Umesh Luthra	2012	Optimization of lipstatin production by <i>Streptomyces toxytricini</i> ATCC19813 in submerged fermentation
18	Pradeep Kumar	2013	Biocontrol of <i>Macrophomina phaseolina</i> (Tassi) Goid. causing charcoal rot in <i>Lycopersicon esculentum</i> L. by using multi-species bacterial consortium
19	Raghendra Pratap Singh	2013	Decipherization of structural and functional diversity of chickpea rhizobia
20	Swarnita Dixit	2015	Isolation and characterization of endophytes from lentil and their impact on subsequent crop
21	Pallavi Bhatia	2017	Management of Fusarium wilt of <i>Dalbergia sisso</i> by using microbial consortia
22	Sumit Arya	2017	Studies on biosurfactant producing PGPR with antagonistic potential against <i>Macrophomina phaseolina</i> (Tassi) Goid. causing charcoal rot of <i>Vigna mungo</i> (L.) Hepper
23	Reshma Kumari	2017	Studies on antimicrobial and immunomodulatory properties of <i>Barleria lupulina</i> Lindl
24	Jyoti Choudhary	2018	Studies on bacteria isolated from milk and milk products having probiotic properties
25	Chakee Kumar Sharma	2018	Studies on induced systemic resistance (ISR) triggering PGPR against <i>Macrophomina phaseolina</i> (Tassi) Goid. in <i>Vigna radiata</i> (L.) R. Wilczek
25	Shiwani Tyagi	2020	Studies on antibacterial properties of Ganga water against some enteric human pathogens
26	Vipin Nautiyal	Registered, 2018	Studies on antimicrobial, antioxidant and immunomodulatory properties of urine from <i>Badri</i> and other cows
27	Surbhi Mahajan	Registered, 2018	Comparative study of antibacterial, antioxidant and immunomodulatory properties of <i>Camellia sinensis</i> and <i>C. assamica</i>
28	Kamni Rajput	Registered, 2018	Comparative study of probiotic bacteria isolated from goat and sheep milk
29	Mousumi Hazra	Registered, 2019	<i>In silico</i> studies on DNA binding proteins of enteric bacteriophages to be used as novel therapeutics
30	Nikhil	Registered, 2019	Characterization of endophytic bacteria inhabiting <i>Barleria lupulina</i> Lindl. and its effect of host plant growth and synthesis of silver nanoparticles

Google Scholar Citation Index : 3685 (as on 25/10/2020), h-index 30; i10 index 63

### Publications

Sl. No.	Year	A. Books Published: 14
<u>Authored Books : 5</u>		
1.	2020	<b>Dubey, R.C.</b> <i>Vedic Microbiology (Ek Vaigyanic Drishti)</i> . Aastha Prakashan, Delhi- 110053, p. 164
	2014	<b>Dubey, R.C.</b> <i>Advanced Biotechnology</i> . S. Chand & Co. P Ltd, New Delhi-5, p. 1161; ISBN: 81:219-4290-X.
2.	2014	<b>R.C. Dubey.</b> <i>Geetayan</i> (compilation of Hindi poems). <i>Aastha Prakashan</i> , Delhi-53, ISBN 978-81-925445-6-4, p. 102.
3.	2012	<b>Dubey, R.C.</b> and Maheshwari, D.K. <i>Practical Microbiology</i> . 2 <sup>nd</sup> ed., S. Chand & Co. P Ltd, New Delhi-5, p. 413. ISBN: 81:219-2559-2
4.	2010	<b>Dubey R.C.</b> and Maheshwari, D.K. <i>A Textbook of Microbiology</i> . 3rd ed., S. Chand & Co, Ram Nagar, New Delhi, p. 1034. ISBN 81-219-2620-3
5.	2012.	<b>Dubey, R.C.</b> <i>A Textbook of Biotechnology</i> . 4th ed., S. Chand & Co. P Ltd, New Delhi-5, p. 732. ISBN 81-219-2608-4
<u>Edited Books : 8</u>		
6.	2012	Maheshwari, D.K. and <b>R.C. Dubey</b> (Eds.). <i>Bioremediation of Pollutants</i> . I.K. International Publ. House P Ltd, New Delhi, p. 402. ISBN. 978-93-81141-0-5-2
7.	2010	Maheshwari, D.K., <b>Dubey, R.C.</b> and R. Saravanamuthu (Eds.). <i>Industrial Exploitation of Microorganisms</i> . I.K. International Publ. House P Ltd, New Delhi, p.436. ISBN. 978-93-907462-0-5
8.	2008	Maheshwari, D.K. and <b>R.C. Dubey</b> (Eds.). <i>Potential Microorganisms for Sustainable Agriculture</i> . I.K. International Publ. House P Ltd, New Delhi, p.482. ISBN. 978-93-80026-53-4
9.	2006	Maheshwari, D.K.; <b>R.C. Dubey</b> and Kang, S.C. (Eds.). <i>Biotechnological applications of microorganisms- a techno-commercial approach</i> . I.K. International Publ. House P Ltd, New Delhi, p. 400.
10.	2001	Maheshwari, D.K. and <b>R.C. Dubey.</b> (Eds.) <i>Innovative Approaches in Microbiology</i> . Bishen Singh Mahendra Pal Singh, Dehra Dun, p. 485
11.	2000	Maheshwari, D.K.; <b>R.C. Dubey</b> ; Prasad, G. and Navneet. (Eds.). <i>Microbiology: Agriculture, Industry &amp; Environment</i> . Bishen Singh Mahendra Pal Singh, Dehra Dun, p. 269.
12.	1997	Sati, S.C.; Saxena, J. and <b>R.C. Dubey</b> (Eds.). <i>Himalayan Microbial Diversity. Vol. I</i> , Today and Tomorrow's Printers & Publishers, New Delhi.
13.	1997	Sati, S.C.; Saxena, J. and <b>R.C. Dubey</b> (Eds.). <i>Himalayan Microbial Diversity. Vol. II</i> , Today and Tomorrow's Printers & Publishers, New Delhi.

### B. Research/Review\* Papers Published

Sl. NO.	Year	B. Research/Review* Papers Published: 178	Impact factor
178	2020	Tyagi, Shivani and <b>R.C. Dubey.</b> Ganga water kills the entero-pathogenic bacteria of human <i>in vitro</i> and <i>in vivo</i> . <i>Indo Global J. Pharmaceutical Sci.</i> (In Press), ISSN 2249 –1023, UGC Journal No. 44477	
177	2020	Rajput, Kamni and <b>R.C. Dubey.</b> Probiotic potential and safety characterization of <i>Enterococcus hirae</i> G24 isolated from indigenous raw goat milk. <i>Int. J. Pharm. Sci. Drug Res.</i> 12(3): 1-9. ISSN: 0975-248X, doi:10.25004/IJPSDR.2020.120303	
176	2020	Nautiya, Vipin and <b>R.C. Dubey.</b> <i>In vitro</i> study of antibacterial and antioxidant properties of urine of indigenous <i>Badri</i> cow. <i>Internl. J. Pharma. Res.</i> 12(4): 1137-1142.	
175	2020	Kumar, Pankaj; Sharma,P.; Kumar, T.R.; Sharma, H. C. and <b>R. C. Dubey.</b> Effect of storage conditions on vermicompost quality. <i>Curr. Sci.</i> 118(2): 297-300; doi: 10.18520/cs/v118/i2/297-300.	
174	2020	Arya, R.; Pandey, Chitra; Dhiman, S.; Aeron, Abhinav; <b>Dubey, R.C.</b> ; Maheshwari, D.K.; Chen, L.; Ahmad, P.; Bajpai, V.K. Fertilizer adaptive bacteria <i>Acidovorax valerianellae</i> and <i>Sinorhizobium fredii</i> in integrated nutrient management of pigeon pea ( <i>Cajanus cajan</i> L.). <i>South</i>	

		<i>African J. Botany</i> . /doi.org/10.1016/j.sajb.2020.03.018	
173	2020	Pradhan, Surbhi and R. C. Dubey. Evaluation of phytochemical, antimicrobial and time-killing assay of <i>Camellia</i> species. <i>Vegetos</i> . https://doi.org/10.1007/s42535-020-00153-2	
172	2020	Pradhan, Surbhi and <b>R.C. Dubey</b> . Proximate analysis, total phenolic content, antioxidant activity and anti-diabetic property of <i>Camellia sinensis</i> and <i>Camellia assamica</i> . <i>Biochemical and Cellular Archive</i> . 20(1), 15-23. ISSN 0972-5075; DOI : 10.35124/bca.2020.20.1.15	<b>0.03</b>
171	2020	Tyagi, Shivani, <b>R. C. Dubey</b> , R. Bhutiani and F. Ahamad. Multivariate statistical analysis of river Ganga water at Rishikesh and Haridwar, India. <i>Analytical Chemistry Letter</i> . 10(2): 195-213 ISSN Online: 2230-7532, https://doi.org/10.1080/22297928.2020.1756405	
170	2019	*Dheeman, S., D. K. Maheshwari, <b>R. C. Dubey</b> , S. Kumar, N. Baliyan and S. Dhiman. Harnessing beneficial <i>Bacillus</i> in productivity improvement of food security crops of Himalayan agro-climatic zones. In “ <i>Field Crops: Sustainable Management by PGPR, Sustainable Development and Biodiversity 23</i> ” (Eds. D. K. Maheshwari and S. Dheeman), pp. 143, doi.org/10.1007/978-3-030-30926-8_5, Springer Nature Switzerland AG 2019	
169	2019	*Aeron, Abhinav; Khare, E.; Jha, C.K; Meena, V.S.; Aziz, S.M.A.; Islam, M.T.; Kim, K.; Meena, S.K.; Pattanayak, A.; Rajashekara, H; <b>R.C. Dubey</b> ; B.R. Maurya; D.K. Maheshwari; M. Saraf; M. Choudhary; R. Verma; H.N. Meena; A.R.N.S. Subbanna; M. Parihar; S. Shukla; G. Muthusamy; R.S. Bana; V.K. Bajpai; Young-Kyu Han; M. Rahman; D. Kumar; N.P. Singh; R.K. Meena.2019. Revisiting the plant growth promoting rhizobacteria: lessons from the past and objectives for the future. <i>Archives of Microbiology</i> . doi.org/10.1007/s00203-019-01779-w, ISSN 0302-8933,	<b>1.808</b>
168	2019	Kumar, Pankaj; P. Sharma, T.R. Kumar, H.C. Sharma, and <b>R.C. Dubey</b> . Effect of storage conditions on vermicompost quality. <i>Current Science</i> . 118(2): 297-300, ISSN: 0011-3891 doi: 10.18520/cs/v118/i2/292-297	<b>0.756</b>
167	2019	Dhiman, Sandhya, <b>R.C. Dubey</b> , Nitin Baliyan, Sandeep Kumar, D.K. Maheshwari. Application of potassium solubilising <i>Proteus mirabilis</i> MG738216 inhabiting cattle dung in improving nutrient use efficiency of <i>Foeniculum vulgare</i> Mill. <i>Environmental Sustainability</i> . https://doi.org/10.1007/s42398-019-00088-8	
166	2019	Kumar, Deepak, <b>R.C. Dubey</b> and D. K. Maheshwari (2019). Bio-efficacy of acetic leaf extract of <i>Murraya koenigii</i> with reference to its antibacterial spectrum against food-borne bacteria. <i>Biosci. Biotech. Res.</i> <b>12</b> (3): 658-664. DOI: 10.21786/bbrc/12.3/16, ISSN: 0974-6455	
165	2019	Dhiman, Sandhya; N, Baliyan; <b>R.C. Dubey</b> ; Maheshwari, D.K. Kumar, S and Lei Chen. Combined effect of rhizo-competitive rhizosphere and non-rhizosphere bacilli in plant growth promotion and yield improvement of <i>Eleusine corocana</i> (Ragi). <i>Canadian Journal of Microbiology</i> . ISSN: 0008-4166 (print), doi.org/101139./cjm-2019-0103	<b>1.2</b>
164	2019	* Pradhan, Surbhi and <b>R.C. Dubey</b> . Beneficial properties of tea on human health: a mini review. <i>Indian. Res. J. Pharm. Sci.</i> <b>20</b> : 1778-1790. DOI: 10.21276/irjps.2019.6.1.3. ISSN: 2349-5332	
163	2019	Kumar, A.; V. Anand; <b>R.C. Dubey</b> and K.K. Goel. Evaluation of antioxidant potential of alcoholic stem bark extracts of <i>Bauhinia variegata</i> Linn. <i>J. Applied and Natural Science</i> . 11(1): 235- 239. ISSN : 2231-5209 (O); DOI:10.31018/jans.v11i1.2015	
162	2019	Dhiman, Sandhya, <b>R.C. Dubey</b> , D.K Maheshwari and Sandeep Kumar. 2019. Sulphur oxidising buffalo dung bacteria enhance growth and yield of <i>Foeniculum vulgare</i> Mill. <i>Canadian Journal of Microbiology</i> . pp. 1-10. doi.org/10.1139/cjm-2018-0476, ISSN: 0008-4166 (print)	<b>1.2</b>
161	2018	Kumar, Harish, <b>R.C. Dubey</b> , D.K. Maheshwari. 2018. Rhizobial genetic diversity in root nodules of <i>Trigonella foenum-graecum</i> cultivated in sub-Himalayan region of Uttarakhand. <i>Biocatalysis and Agricultural Biotechnology</i> . 16: 243–252. doi.org/10.1016/j.bcab.2018.08	
160	2018	Kumar, P., Thakur, S., G.K. Dhingra, A. Singh, M.K. Pal, <b>R.C. Dubey</b> and D.K. Maheshwari. 2018. Inoculation of siderophore producing rhizobacteria and their consortium for growth enhancement of wheat plant. <i>Biocatalysis and Agricultural Biotechnology</i> . 15: 264-269. doi.org/10.1016/j.bcab.2018.06, ISSN:1878-8181	
159	2018	Tyagi, S and <b>R.C. Dubey</b> . Isolation of host-specific bacteriophages from Ganga water against some enteric bacterial pathogens of human. <i>J. Sci. Trans. Environ. Technov.</i> <b>12</b> (1), 1-5. ISSN:	
158	2018	Baliyan, Nitin, Dheeman, S., D.K. Maheshwari, <b>R. C. Dubey</b> and Vishnoi, V.K. Rhizobacteria isolated under field first strategy improved chickpea growth and productivity. <i>Environmental Sustainability</i> . 1(4): 461–469. https://doi.org/10.1007/s42398-018-00042-0	

157	2018	Bhatia, Pallavi; N.S.K. Harsh and <b>R.C. Dubey</b> . Seasonal diversity of microfungi in rhizosphere of <i>Dalbergia sissoo</i> in new forest, campus, Dehradun (India). <i>National Acad Sci. Letter</i> . pp. 1-6. doi.org/10.1007/s40009-018-0684-4. ISBN:0250-541X	
156	2018	*Kumari, R; Kumar S. and <b>R.C. Dubey</b> . A mini review on medicinal value of <i>Barleria lupulina</i> Lindle. <i>Int. J. Environ. Sciences &amp; Natural Resource</i> . <b>12</b> (3):1-2. ISSN: 2572-1119; DOI:10.19080/IJESNR.2018.12.55583	0.954
155	2018	Kumari, R; Dubey R.C. and Kumar S. Antibacterial efficacy of acetone soluble oil of <i>Azadirachta indica</i> on some bacterial strains. <i>J. Plant Pathol. Microbiol</i> . <b>9</b> (8): 447. DOI: 10.4172/2157-7471.1000447. ISSN: 2157-7471	
154	2018	Kumar H.; <b>R.C. Dubey</b> and D.K. Maheshwari. Rhizobial genetic diversity in root nodules of <i>Trigonella foenum-graecum</i> cultivated in sub-Himalayan region of Uttarakhand. <i>Biocatalysis and Agricultural Biotechnol</i> . <b>16</b> : 243–252 ISSN:1878-8181, https://doi.org/10.1016/j.bcab.2018.08.011	
153	2018	Kumar, Pankaj; Thakur, S; Dhingra, G.K.; Singh, A.; Pal, M.K.; H. Kumar; <b>R.C. Dubey</b> and D.K. Maheshwari. Inoculation of siderophore producing rhizobacteria and their consortium for growth enhancement of wheat plant. <i>Biocatalysis &amp; Agricultural Biotechnol.</i> , <b>15</b> : 264–269, https://doi.org/10.1016/j.bcab.2018.06.019, ISSN:1878-8181	
152	2018	Choudhary J., <b>R.C. Dubey</b> , Gyanendra Sengar and S. Dheeman. Evaluation of probiotic potential and safety assessment of <i>Lactobacillus pentosus</i> MMP4 isolated from mare's lactation. <i>Probiotics &amp; Antimicrobia. Proteins</i> . pp 1–10; https://doi.org/10.1007/s12602-018-9431-x. ISSN: 1867-1306	2.345
151	2018	Choudhary J. and <b>R.C. Dubey</b> . Relative probiotic potential of milk bacteria from <i>Desi</i> and cross-breed cows and its compatibility with prebiotics. <i>Biotechnol Res</i> . <b>4</b> (2):62-68. eISSN 2395-6763	
150	2018	Sharma C.K, V.K. Vishnoi, <b>R.C. Dubey</b> and D.K. Maheshwari. A twin rhizospheric bacterial consortium induces systemic resistance to a phytopathogen <i>Macrophomina phaseolina</i> in mung bean. <i>Rhizosphere</i> , <b>5</b> :71–75, ISSN: 2452-98, https://doi.org/10.1016/j.rhisph.2018.01.001	
149	2017	Kumari R., S. Kumar, A. Kumar, K.K. Goel and <b>R.C. Dubey</b> . Antibacterial, antioxidant and immuno-modulatory properties in extracts of <i>Barleria Lupulina</i> Lindl. <i>BMC Complementary &amp; Alternative Medicine</i> , <b>17</b> (484): 1-11, DOI 10.1186/s12906-017-1989-4	2.288
148	2017	Dixit, S., <b>R.C. Dubey</b> , D.K. Maheshwari, P.K. Seth and V.K. Bajpai. Roles of quorum sensing molecules from <i>Rhizobium etli</i> RT1 in bacterial motility and biofilm formation. <i>Brazilian J. Microbiology</i> . <b>48</b> : 815-821, http:// dx.doi.org/10.1016/j.bjm.2016.08.005, ISSN: 1517-8382	0.96
147	2017	Agarwal M., S. Dheeman, <b>R.C. Dubey</b> , P. Kumar, D.K. Maheshwari and V.K. Bajpai. Differential antagonistic responses of <i>Bacillus pumilus</i> MSUA3 against <i>Rhizoctonia solani</i> and <i>Fusarium oxysporum</i> causing fungal diseases in <i>Fagopyrum esculentum</i> Moench. <i>Microbiol. Research</i> . <b>205</b> : 40–47. dx.doi.org/10.1016/j.micres.2017.08.012, ISSN: 0944-5013	3.2
146	2017	Bhatia, Pallavi; N.S.K. Harsh; <b>R.C. Dubey</b> and P.K. Kaushik. A comparative study of different carriers for bioinoculant preparation. <i>Indian Forester</i> . <b>143</b> (4): 350-354. ISSN: 2321-094X (O)	
145	2017	Sharma C.K. and <b>R.C. Dubey</b> . Elicitation of antioxidants and phenolics in <i>Vigna radiata</i> L. Wilczek by twin PGP bacteria against infection of <i>Macrophomina phaseolina</i> Tassi (Goid.). <i>J. Sci. Trans. Environ. Technov</i> . <b>10</b> (3): 105-108.	
144	2017	Sharma C.K. and <b>R.C. Dubey</b> . Plant growth promoting and antagonistic properties of <i>Pseudomonas putida</i> CRN-09 against <i>Macrophomina phaseolina</i> (Tassi) Goid. <i>Indian J. Sci. Res</i> . <b>13</b> (2): 01-05, 2017. ISSN: 2250-0138.	
143	2017	Kumar H. <b>R.C. Dubey</b> and D.K. Maheshwari. Seed-coating fenugreek with <i>Burkholderia</i> rhizobacteria enhances yield in field trials and can combat Fusarium wilt. <i>Rhizosphere</i> , <b>3</b> : 92–99. (ISSN: 2452-98) http://dx.doi.org/10.1016/j.rhisph.2017.01.004	
142	2017	Dheeman, Shrivardhan, Maheshwari, D.K., Agarwal, M., <b>R.C. Dubey</b> , Abhinav Aeron, Kim, K. and Bajpai V.K. 2017. Polyphasic and functional diversity of high altitude culturable <i>Bacillus</i> from rhizosphere of <i>Eleusine coracana</i> (L.) Gaertn. <i>Applied Soil Ecology</i> , <b>110</b> :127–136 ISSN: ISSN: 0929-1393; http://dx.doi.org/10.1016/j.apsoil.2016.10.005	2.670
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(see Ann-III)

#### Gene Sequences submitted to GenBank (NCBI) - 49

Sl. No.	Bacterial species	Accession No.	(16S ribosomal RNA gene)	Authors
1.	<i>Azotobacter chroococcum</i> AZO2	EU274299	1403 bp DNA	Kumar, V., <b>Dubey, R.C.</b> and Maheshwari, D.K.
2.	<i>Azotobacter vinelandii</i> LEP21	AB623045	1439 bp DNA	Saini, P.K. and <b>Dubey, R.C.</b>
3.	<i>Brachybacterium</i> sp. DST2	FJ817477	1450 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
4.	<i>Bacillus</i> sp. DST4	FJ817479	1484 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
5.	<i>Staphylococcus</i> sp. DST5	FJ817480	1479 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
6.	<i>Bacillus</i> sp. DST6	FJ817481	1476 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
7.	<i>Planococcus</i> sp. DST10	FJ817484	1482 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
8.	<i>Bacillus subtilis</i> BN1	DQ383271	1272 bp DNA	Singh, N., Pandey, P., <b>Dubey, R.C.</b> and Maheshwari, D.K.
9.	<i>Bacillus subtilis</i> BPR7	JN208240	1446 bp DNA	Kumar, P., <b>Dubey, R.C.</b> and Maheshwari, D.K.
10.	<i>Bacillus subtilis</i> BSK17	GU057902	326 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
11.	<i>Bacillus subtilis</i> BSK2	GU057897	314 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
12.	<i>Bacillus subtilis</i> BSK3	GU057898	328 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
13.	<i>Bacillus subtilis</i> BSK4	GU057899	335 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
14.	<i>Bacillus subtilis</i> BSK6	GU057900	337 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
15.	<i>Bacillus subtilis</i> LEP25	AB622867	1490 bp DNA	Saini, P.K. and <b>Dubey, R.C.</b>
16.	<i>Bacillus subtilis</i> SK17	GU057902	326 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
17.	<i>Paenibacillus polymyxa</i> BSK1	GU057896	325 bp DNA	Khare, S., <b>Dubey, R.C.</b> and Maheshwari, D.K.
18.	<i>Bradyrhizobium japonicum</i> VR1	JX001401	1380 bp DNA	Dubey, P. and <b>Dubey, R.C.</b>
19.	<i>Bradyrhizobium</i> sp. VR2	JX001402	1257 bp DNA	Dubey, P. and <b>Dubey, R.C.</b>
20.	<i>Corynebacterium</i> sp. DST1	GQ274319	Catechol 1,2-dioxygenase-like gene, 308 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>
21.	<i>Corynebacterium</i> sp. DST1	FJ620660	1483 bp DNA	Dalal, S., Panigrahi, D.P., Randhawa, G.S. and <b>Dubey, R.C.</b>

22.	<i>Exiguobacterium</i> sp. DST7	FJ817482	1488 bp DNA	Dalal,S., Panigrahi,D.P., Randhawa,G.S. and <b>Dubey, R.C.</b>
23.	<i>Lysinibacillus</i> sp. DST3	FJ817478	1486 bp DNA	Dalal,S., Panigrahi,D.P., Randhawa,G.S. and <b>Dubey, R.C.</b>
24.	<i>Lysinibacillus</i> sp. DST8	FJ817483	1484 bp DNA	Dalal,S., Panigrahi,D.P., Randhawa,G.S. and <b>Dubey, R.C.</b>
25.	<i>Mesorhizobium ciceri</i> strain CPN21	JX868855	1340 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
26.	<i>Mesorhizobium ciceri</i> strain CPN22	JX868856	1283 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
27.	<i>Mesorhizobium ciceri</i> strain CPN3	JX868849	1305 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
28.	<i>Mesorhizobium ciceri</i> strain CPN32	JX868858	1251 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
29.	<i>Mesorhizobium ciceri</i> strain CPN34	JX868859	1332 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
30.	<i>Mesorhizobium ciceri</i> strain CPN35	JX868860	1342 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
31.	<i>Mesorhizobium ciceri</i> strain CPN39	JX868861	1373 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
32.	<i>Mesorhizobium ciceri</i> strain CPN45	JX868862	1403 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
33.	<i>Mesorhizobium ciceri</i> strain CPN52	JX868863	1335 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
34.	<i>Mesorhizobium ciceri</i> strain CPN6	JX868850	1387 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
35.	<i>Mesorhizobium ciceri</i> strain CPN7	JX868851	1429 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
36.	<i>Mesorhizobium ciceri</i> strain CPN8	JX868852	1292 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
37.	<i>Mesorhizobium</i> sp. CPN1 16S	JX868848	1021 bp DNA	Dalal,S., Panigrahi,D.P., Randhawa,G.S. and <b>Dubey, R.C.</b>
38.	<i>Mesorhizobium</i> sp. CPN10	JX868853	1314 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
39.	<i>Mesorhizobium</i> sp. CPN16	JX868854	978 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
40.	<i>Mesorhizobium</i> sp. CPN29	JX868857	1319 bp DNA	Singh,R.P., Singh,R.N., Srivastava,A.K. and <b>Dubey, R.C.</b>
41.	<i>Paenibacillus polymyxa</i> RCP6	GU369972	1479 bp DNA	Aeron,A., Chauhan,P.S., <b>Dubey, R.C.</b> and Maheshwari,D.K.
42.	<i>Pseudomonas aeruginosa</i> LEP17	AB610482	1380 bp DNA	Saini,P.K. and <b>Dubey, R.C.</b>
43.	<i>Pseudomonas fluorescens</i> LPK2	GQ217532	1197 bp DNA	Choure,K., Maheshwari,D.K. and <b>Dubey, R.C.</b>
44.	<i>Rhizobium leguminosarum</i> RPN5	JN180926	1342 bp DNA	Kumar, P. and <b>Dubey, R.C.</b>
45.	<i>Rhizobium</i> sp. RT1	KC762618	1372 bp DNA	Dixit,S., <b>Dubey, R.C.</b> and Seth,P.K.
46.	<i>Pseudomonas</i> sp. RT2	KC762619	1408 bp DNA	Dixit,S., <b>Dubey, R.C.</b> and Seth,P.K.
47.	<i>Sinorhizobium fredii</i> KCC5	GQ169037	732 bp DNA	Maheshwari,D. and <b>Dubey, R.C.</b>
48.	<i>Enterococcus faecium</i> strain BS13	KU991961	1431 bp DNA	Kumar,S., <b>Dubey,R.C.</b> , Maheshwari,D.K. and Dheeman,S.
49.	<i>Bacillus cereus</i> strain BS14	KU991962	1425 bp DNA	Kumar,S., <b>Dubey,R.C.</b> , Maheshwari,D.K. and Dheeman,S.

#### **Ann-IV**

#### **Seminar/Workshop/Meeting Organised**

1. Organising Secretary of the National Seminar on ***Bioinoculants for Holistic Sustainable Rural Development***, organised jointly with Deen Dayal Upadhyay Institute for Rural development, U.P. Govt., Oct., 23-25, 1998.
2. Co-coordinator of Workshop on ***Molecular and Applied Microbiology*** at Gurukul Kangri University, Sponsored by Uttarakhand state council for Science & Technology, Dehradun, Department of Science & Technology, 10th-19th Feb, 2008

3. Co-coordinator of Hands on Training on *Microbial Fermentation & Inoculant Preparations at* Gurukul Kangri University, Sponsored by State Biotechnology Programme, Government of Uttarakhand, (U.S. Nagar), 10th-19th Feb, 2008.
4. Joint-coordinator of a 15-days Summer School in *Recent Trends in Biotechnology* (Sept 16 - 30, 2008).
5. Joint-coordinator of a Workshop on *Microbial fermentation and microbial inoculant preparation for organic farming* (Feb. 6-10, 2009)
6. Organised *Gurukul Microbiology Alumni Meet* on Feb. 8, 2009
7. Acted as *Joint Coordinator* to organize 10-days Training Programme on *Current Trends in Microbial Technology* from Nov. 14 to 25, 2010 sponsored by the State Biotechnology Programme, Govt. of Uttarakhand.
8. Participated in the Biotechnology Expert Committee meeting organized by CSTT (Ministry of HRD) Govt. of India, on Dec. 6-9, 2010 at Bundelkhand University, Jhansi.
9. Acted as Co-coordinator to celebrate **National Science Day** on Feb., 12, 2011.
10. Organized as Coordinator a 4-days meeting for preparation of **Biotechnology Glossary** at the Dept. of Botany & Microbiology, Gurukul Kangri University, Haridwar from May 17-20, 2012 sponsored by CSTT, Department of Education, Ministry of HRD, New Delhi.
11. Organized *Kaavya Sangosthi* on Oct 30, 2014 to celebrate the Unity day as per instruction of the UGC.
12. Convenor, National Conference on “*Microbial Inoculants for Agriculture and Environmental Sustainability*” from 28 to 30 Sept, 2018.
13. Convenor, National conference on “*Innovative Approaches in Microbial Technology*’ from 8 to 9 March, 2019.

#### Ann-V

#### Seminar/ Conference Attended/ Delivered Lectures

1. Attended the 19<sup>th</sup> All India Botanical at Gurukul Kangri University, Dec. 26-28, 1996.
2. Delivered lecture in National Seminar on “Role of Microbes in Environmental Protection and rural development” at Shilong (NEHU), Oct. 23-25, 1998.
3. Attended the International Symposium on “Microbial Biotechnology for sustainable development and productivity” at R.D. University, Jabalpur, Nov. 14-16, 1998.
4. Attended 22<sup>nd</sup> All India Botanical Conference and National symposium on “Recent advances in Plant Sciences” at Mithibai college, Mumbai, Oct. 23-25, 1999.
5. Presented paper in 23<sup>rd</sup> All India Botanical Conference and National Symposium on “Microbes and Human welfare (Microbe 2000)” at C.C.S. University, Meerut, Oct. 14-16, 2000.
6. Presented paper in 24<sup>th</sup> All India Botanical Conference at Osmania University, Hyderabad, Nov. 19-21, 2001.
7. Delivered lecture in National Seminar on “Plant and Microbe” at Rajasthan University, Rajasthan, March, 15-16, 2002.
8. Attended 25<sup>th</sup> All India Botanical Conference at MJP Rholikhhand University, Bareilly, Oct. 26-28, 2002.
9. Seminar on “Alternative fuel for new Millennium” in India at CDC, Haridwar, Feb. 8, 2003.
10. Delivered lecture in Refresher Course at M.J.P. Rholikhhand University, Bareilly Oct. 10-12, 2004
11. Delivered lecture in Refresher Course at MS College Mothari, Bihar, Dec.31 – Jan. 6, 2004.
12. Acted as President and delivered lecture in National conference on Biodiversity and sustainable development at MLK (PG) College, Balrampur, March 4-6, 2005.
13. Delivered lecture in National Seminar on “Biopesticides for Sustainable Agriculture” at Bilaspur, Oct. 11-13, 2006.



14. Delivered lecture in National Seminar on “Application of microbial inoculant for enhanced crop yield” at, Gorakhpur, Nov. 18-19, 2006.
15. Delivered lecture in National Seminar on “*Pseudomonas* as potential PGPR for enhanced crop yield” at Bikaner Dec. 25-27, 2006.
16. National Seminar on “Plant pathogens: Exploitation and Management” at Jabalpur, Jan. 16-18, 2007.
17. Delivered lecture in National Seminar on “Biopesticides” at Ujjain Feb. 28-March, 1, 2007.
18. Acted as Judge in the 30<sup>th</sup> All India Botanical Conference at Jiwaji University, Gwalior, Nov. 28-30, 2008.
19. Act as Judge in National Teacher Conference at Dehra Dun, Sep. 2007.
20. Act as Judge in Bhartiya Vigyan Sammelan at Bhopal Nov. 23-26, 2007.
21. Delivered lecture in National Seminar on Mycotic diseases in 21<sup>st</sup> Century at Kanchipuram (T.N.) Feb. 28-29, 2008.
22. Delivered lecture in 11<sup>th</sup> Manipur Science Congress at Manipur University, Imphal, March, 28-30, 2008.
23. Delivered lecture in National Seminar on Biopesticides at Dolphin (PG) Institute, Dehra Dun, April, 16, 2009.
24. Delivered lecture in refresher course at Kumaun University, Nainital, Oct. 5, 2009.
25. Delivered lecture in Workshop on Microbial Technology and its Applications at FRI, Dehradun, Oct. 11, 2009
26. Delivered lecture in National Conference on *Climate Change and Biodiversity* on Jan. 21-22, 2011 organised by the Deptt of Botany, SVM Mahila PG College, Gorakhpur.
27. Delivered lecture in National seminar on *Biotechnology for Human and Social Welfare* held on Oct 3-4, 2010 organised by Yash Krishi, Takniki Evam Vigyan Kendra, Allahabad.
28. Delivered lecture in National Seminar on Green Revolution to Gene Revolution: GM crops at Nagpur, Jan. 2, 2010.
29. Delivered lecture in National Seminar on *Recent Trends in Microbial Technology with references to Extremophiles* on Oct 22-23, 2010 organised by the Deptt of Microbiology, Periyar University, Salem (T.N.).
30. Delivered lecture in National Workshop on Recent Trends in Biotechnology at Vardhaman Mahavir Open University, Kota, Rajasthan, March, 8-10, 2010.
31. Delivered lecture in *Training on Modern Biotechnology* on Oct 6, 2010, organized by the Division of Genetics and Tree Propagation, FRI, Dehra Dun
32. National Seminar on Environmental Management & Biodiversity Conservation on Feb. 26-27, 2011 organised by ASEAN Action for Sustainable, Efficacious and Awareness & MANU (Rishikesh).
33. Characterization, exploitation and conservation of microbial biodiversity. World Conference for Man & Nature from Nov. 11-13, 2011, WCMANU & GKV.
34. Microbial Biodiversity. World Conference for Man & Nature from Nov. 11-13, 2011. WCMANU & GKV.
35. Molecular techniques for isolation and characterization of bacteria. Oct 6, 2011, organized by the Division of Genetics and Tree Propagation, FRI, Dehra Dun
36. Present status and future prospects of Biotechnology- the Gene. Delivered an invited lecture on 8/2/2012. Deptt of Botany, MD PG College Pratapgarh
37. Research methodology in life sciences. On Sept 19. 2012. 89<sup>th</sup> Orientation Programme of UGC Academic Staff College, DDU Gorakhpur Univ., Gorakhpur.
38. Natural Resources and their Conservation Strategies. In National Seminar of Natural resources and Environment, on 14-10-12 in a National Seminar on Natural resource and Environment organized by Chinmaya Degree College, BHEL, Haridwar.
39. Transgenic Animals: Facts and Fears. Invited lecture delivered in Deptt of Zoology on 13-10-12, in Kumaun University, Nainital.
40. Microbial techniques and its applications in Pharma Industry, on 8-11-12 during Hands-on-training in Dolphin (PG) Institute of Medical and Natural Sciences, Dehra Dun.

41. Molecular techniques for isolation and characterization of bacteria. 3-1-2013 in a training course organized by the Department of Biotechnology (Bhimtal Campus) Kumaun University, Nainital.
42. Characterization of root nodule bacteria of *Vigna mungo* (L.) Hepper with their plant growth promoting and antagonistic attributes, in 36th National Conference of the Indian Botanical Society. DDU Gorakhpur University, Oct 18-20, 2013.
43. PGPR-mediated Management of Soil-borne Fungal Pathogens'. National Conference on 'Plant bioresource management and biotechnology. January 29-31, 2014, Department of Botany, Univ. Rajasthan, Jaipur.
44. Molecular Techniques for Characterization of Bacteria. Workshop on Taxonomic key and identification tools of different groups of flora and fauna, on March 7, 2014, Department of Zoology & Environ. Sciences, Gurukul Kangri University, Haridwar
45. Drug designing from bacteriophages, on June 30, 2014, during a Training programme on Advanced Experimentation-2014, Department of Pharmaceutical Sciences, FMSH, Gurukul Kangri University, Haridwar.
46. Microbial analysis in pharma Industries, on Feb., 26, 2015, Department of Microbiology, Periyar University, Salem (T.N)
47. Phage therapy: drug designing from bacteriophages, special lecture, on Feb., 26, 2015, Department of Microbiology, Periyar University, Salem (T.N)
48. Microbial Technology. Special lecture in a Workshop, March 2016, Dept of Zoology and Environmental Sci., GKV, Haridwar.
49. Bioremediation of pollutants- National Seminar, on 27 March 2016, Sahu Jain Degree College, Nazibabad, U.P.
50. Delivered a lecture on 'Basics in research- some considerations' in a Workshop on Research Methodology organised by Department of Yoga, Gurukul Kangri Univ., Haridwar

**Ann-VI**

**Research Projects Handled**

Title of research	Funding agency	Duration (years)	Year of completion	Whether PI or Co-PI
Microbial decomposition of coniferous leaf litter in the Kumaun Himalaya	UGC, New Delhi	2	1989-1991	PI
Occurrence, identification and screening of aquatic macrophytes for energy generation and through biomass production of some fuel wood species in substandard soil.	CS&T (UP)	3	1996-99	Co-Pi
Mass production and application of biopesticides to control bacterial infestation associated with soil seeds	CSIR, New Delhi	3	1998-2001	Co-Pi
Field trials for integrated nutrient management protocol (N,P,K & S and <i>Pseudomonas</i> , <i>Rhizobium</i> bacteria) for optimization of yield and quality of rapeseed/mustard	CSIR, New Delhi	2	2001-2003	Co-Pi
Integrated nutrient management protocol (N,P,K & S and <i>Pseudomonas</i> and nitrogen fixing bacteria) for optimization of yield and	CSIR, New Delhi	2	2003-2005	Co-Pi

quality of sesame under field trials

Role of microbial consortium and N, P, K & S on control of fusarial wilt in <i>Cajanus cajan</i> and <i>Cicer arietinum</i> and improvement of protein quality and yield.	CSIR	3	2004-2006	Co-Pi
Role of plant growth promoting Rhizobacteria in enhancement of productivity of certain medicinal plants of Uttaranchal.	Uttarakhand Council of Science & Technology	2	2006-2010	Co-Pi

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## Ann- VII

### Brief Resume

**Dr. R.C. Dubey** is Professor and *Head* in the Department of Botany & Microbiology, and the *Dean*, Faculty of Medical Sciences and Health, and Dean- Research, Gurukul Kangri Vishwavidyalaya (Haridwar). He earned his M.Sc. and Ph.D. degrees from the Banaras Hindu University, (Varanasi) in the year 1981 and 1986, respectively. He served in Kumaun University (Nainital) as Lecturer from 1987 to 1996; thereafter, he joined Gurukul Kangri University as Reader in 1996 and as Professor in 2004. He has been the *Head* of the Department (2007-2010 and 2018-2021) and the *Dean*, Faculty of Medical Sciences and Health (2013-2016). He has also acted as the *Dean*, Faculty of Life Sciences (2016-2019).

His field of interest is rhizosphere microbiology and phytopathology having expertise in biocontrol of soil-borne plant pathogens, mycorrhizae, rhizosphere microbiology, mycorrhization helping bacteria (MHBs)), microbial biotechnology and botanical pesticides. He has published more than **178 research** and review papers in the national and international journals of repute. He has produced 25 Ph.Ds. and is supervising 8 research students on varied aspects of microbiology. He has handled Research Projects sponsored by the UGC and CSIR.

Prof. Dubey has been a member of Research Degree Committees (RDCs) and Board of Studies (BOS) of several Universities. He has attended dozens of National and International Seminars/ Symposia and presented research papers and delivered lectures.

Prof. Dubey has authored **five** books viz., *Vedic Microbiology* (2020), *A Textbook of Microbiology* (4th ed. 2012), *A Textbook of Biotechnology* (4<sup>th</sup> ed. 2006) and *Practical Microbiology* (3rd ed. 2012) and *Advanced Biotechnology* (1<sup>st</sup> ed. 2014). He is also co-editor of **eight** books viz., *Himalayan Microbial Diversity (vol. 1 and vol. 2, 1997)*, *Microbes: Agriculture, Industry and Environment* (2001), *Innovative Approaches in Microbiology* (2002), *Biotechnological Applications of Microorganisms- a techno-commercial approach* (2006,) *Biotechnological Applications of Microorganisms in Agriculture* (2007), and *Industrial Exploitation of Microorganisms* (2009), and *Bioremediation of Pollutants* (2012).

He has also published a compilation of his poems in the form of a book ***Geetayan*** in 2014.

He was the Organising Secretary of the National Seminar on ‘*Bioinoculants for Holistic Sustainable Rural Development*’ jointly organize by the Department of Botany & Microbiology, Gurukul Kangri University and DDU State Institute for Rural Development (U.P. Govt.) (1998). He has been the member of the Academic and Evaluation Committee, State Biotechnology Programme, Govt. of Uttarakhand, and Convener- Biotechnology Fundamental Glossary- CSTT, HRD Ministry, Govt. of India.

He was co-coordinator of Workshop on Molecular and Applied Microbiology (Feb.10-19, 2008) and joint-Coordinator of *Summer School on Recent Trends in Biotechnology* (Sept, 16-30, 2008) and *Workshop on Microbial Fermentation and Microbial Inoculant Preparation for organic Farming* (Feb. 6-10, 2009), and successfully organized Microbiology Alumni Meet 2009 on February. He organized ***Kavya Gosthi*** on 31 October 2014 to celebrate National Unity Day as per notification of the U.G.C. Prof Dubey convened a National seminar on

*Microbial Inoculants for Agriculture and Environmental Sustainability*” (Sept. 28-30, 2018) and a two days National conference on “*Innovative Approaches in Microbial Technology*” (March 8-9, 2019).

Prof. Dubey is the life member and fellow of the *Indian Botanical Society*, *Indian Phytopathological Society* and the *International Society for Conservation of Natural Resources*. He was Associate Editor of the *Journal of Indian Botanical Society* (2000-2004) and a member in the Editorial Board of the *Journal of Environmental Biology and Conservation* (2004-2008). He was nominated as the *Councillor* of the Indian Botanical Society for three years (2011-2013).

Prof. Dubey has been appointed as the *Chairman*, Institutional Animal Ethical Committee for (1916-2021) by the Ministry of Environment, Forest and Climate Change (Animal Welfare Division), Govt. of India.