

## **CURRICULUM VITAE**

**Name:** PROFESSOR (DR.) GAURI DUTTA SHARMA

**Address:** Professor and Pro-Vice-Chancellor and Dean, Life Sciences  
(Former Vice Chancellor, Nagaland University)  
Assam University, Silchar – 788 011, Assam, India  
Mobile – 09435500660,  
Tel 91-3842-270920 (Off.) Fax. 03842-270802, 270806  
E-mail: gduttasharma@yahoo.com

**Sex:** Male

**Date of Birth:** 1<sup>st</sup> October 1950

**Marital Status:** Married (one daughter and two sons)

**Nationality:** Indian

**Present Position:** Professor and Dean, School of Life Sciences &  
Pro Vice Chancellor, Assam University

**Present Basic Pay:** Rs.37400-67000/- + Rs. 10000/AGP

**Employment** 30 years (Post graduate level in central Universities)

**Courses taught** **P.G. level:** Microbiology, Mycol & Plant Pathology,  
Microbial Ecology, Bio-diversity Environmental Biology &  
Conservation Biology.

**Ph.D level: Research Methodology Course,** Techniques in  
Microbiology, Microbiology of root region & Research  
techniques in Biology, Taught certain inter-disciplinary  
courses like Cell Biology to Zoology & Botany students &  
Microbiology to Biochemistry and Botany PG students.  
Delivered several lectures in various Refresher Courses for the  
College and University Lecturers organized by NEHU  
University, Gauhati University, Kalyani University, Manipur  
University and Assam Agric. University. Framed syllabi on  
Environment for UGC, M.Sc. Botany and M.Phil. for NEHU  
and M.Sc. and M.Phil, Assam University.

**Specialisation** Microbial Ecology and Technology/ Microbiology

**Educational Qualification** M.Sc. (Botany) 1973, Meerut University  
Ph.D.(1981) on “Ecological studies on Mycorrhizae of Pine  
(*Pinus kesiya*)”.

**Other Trainings** 1. Educational Administrative Training for VC &  
Senior Administrators, Hyderabad, 2008.  
2. On VA Mycorrhizae, Univ. of Sheffield,U.k 1991  
3. Use of Radio-isotope in Agric. & Biol. At Nuclear  
Research Lab.New Delhi IA. R. I, 1989.  
4. Training on Mycorrhizas by IFS Sweden at Serdang,  
Malaysia, 1982.

<b>Award/Honour</b>	<ol style="list-style-type: none"> <li>1. Narsimhan Medal Award by Indian Phytopathol 1993.</li> <li>2. Forestry Research in S.E. Asia by Rain &amp; Trop. Research Institute, Jorhat, 1999.</li> <li>3. Rashtriya Ratan Award by International Study Centre, 2003.</li> <li>4. DEED Award by Confederation of Indian Univ., IAERP affiliated to UN-ECOSOC, UNESCO, 2004.</li> <li>5. First prize, ICMOD, Nepal, Readers Review 2006</li> <li>6. Delivered foundation day lecture of Dibrugarh university, 2005.</li> <li>7. CSIR Foundation Day Lecture on 12.10.2009 at NEIST, Jorhat.</li> <li>8. Delivered Prof. H. K. Barua Memorial Lecture at Calcutta University on 4. 12.2009, organised by IMS</li> </ol>
<b>Language</b>	Excellent command on written & spoken English
<b>Fellowship of Academic Society</b>	Royal Society, London, UK & INSA, India under exchange programme.
<b>Countries visited</b>	USA, UK, Canada, Japan, Malaysia, Singapore, Thailand, Myanmar, China
<b>Research Publication</b>	188
<b>Book(s)</b>	<ol style="list-style-type: none"> <li>1. Status of Landslides in NE-India and Natural Disaster Management, 1999, AUS Publication</li> <li>2. Recent Research in Science &amp; Technology (Life Science), 1999, AUS Publication</li> <li>3. Microbial Biodiversity, 2002, Scint. Book Pub., Gauhati.</li> <li>4. Medicinal Plants of Nagaland, Bisen Singh Mahendra Pal Singh Dehradun, 2007</li> <li>5. Techniques in Biological Research, AU, Silchar, 2008.</li> <li>6. Integrated Pest Management (2010) Swastic Publ, New Delhi.</li> <li>7. Heavy Metal Pollution and Mycorrhiza, Today &amp; Tomorrow Publisher Delhi. (2010)</li> </ol>
<b>Editor of Journal</b>	<ol style="list-style-type: none"> <li>1. Journal of Assam University (1998, 1999, 2000 2001)</li> <li>2. Member of editorial board of Vasundhara, 1997</li> <li>3. Advances in Plant Sciences, 1990-1992</li> <li>4. Member of Board of Editors 8<sup>th</sup> edition of International Directory of Distinguished Leadership, Marquis Who's Who USA 1998</li> <li>5. Consulting Editor, American Biographic Inst, SA, 2003</li> <li>6. Journal of Science &amp; Technology of AUS. (2008,2009, 2010)</li> <li>7. Journal of Environmental Biol &amp; Nat. Cons. (2007-09)</li> <li>8. Member of Journal of Advanced Plant Sciences (2006-2008)</li> </ol>
<b>Member of Academic Society</b>	<ol style="list-style-type: none"> <li>1. Indian Botanical Society</li> <li>2. Society of Microbial Ecologists of the Tropics</li> <li>3. Indian Science News Association (ISNA)</li> <li>4. Meghalaya Science Society</li> <li>5. Indian Mycological Society</li> <li>6. Indian Mushroom Growers Association</li> </ol>

7. Indian Science Congress Association
8. The Orchid Society of India
9. Society of Environmental Sciences
9. Science Trial Organisation of Assam
10. National Academy of Science
11. New York Academy of Science, USA

**Position held in Academic Society**

1. Treasurer, Society for Microbial Ecologists of Tropics (1983)
2. Joint Secretary, Meghalaya Science Society (1985)
3. Vice President, Indian Mycol. Society , Kolkata (2006-08)

**Work quoted in International Journal /Book**

- |   |   |
|---|---|
| 1. Rev. Plant Pathol, U.K. (1984,1992)  | 33. Environ Manag <u>14</u> , 131 (1990)  |
| 2. Rev. Plant Pathol, U.K. (1992)   | 34. Aquat Bot <u>36</u> , 287 (1990)  |
| 3. Oikos Supplement (1984)  | 35. Aquat Bot <u>41</u> , 41 (1991)   |
| 4. Acta Botanica Indica (1984, 1986,1992)                                       | 36. Mycorrhiza <u>3</u> , 123 (1993)  |
| 5. Acta Botanica Indica (1986)  | 37. Mycorrhiza 4 265 (1994)   |
| 6. Acta Botanica Indica (1992)  | 38. J.Ecol 84 703 (1996)  |
| 7. Acta Mycologia (1995),   | 39. Hydrobiologia 342 35 (1997)   |
| 8. Rev. Plant Pathol, U.K. (1984)   | 40. Plant Soil 191 1 (1997)   |
| 9. Rev. Plant Pathol, U.K. (1992)   | 41. Limnol Oceanogr 43 508 (1998)   |
| 10. Bio-Science, USA (1989)   | 42. Aquat Bot 63 261 (1999)   |
| 11. Soil Biol Biochem, U.K. (1992)  | 43. Mycol Res 108 616 (2004)  |
| 12. Soil Biol Biochem, U.K. (1993)  | 44. Appl. Soil Ecol 14, 71, (2000)  |
| 13. Soil Biol Fertility, Germany (1992)   | 45. Soil Biol Biochem 35, 837 (2003)  |
| 14. Canadian Journ. Of Botany, Canada(1997)                                     | 46. Soil Sci Soc AMJ 68 125 (2004)  |
| 15. The New Phytologist, U.K. (1995, vol. 129,317)                              | 47. Environ Pollut 86, 2001 (1994)  |
| 16. Canadian Journ. Of Microbiology (1997)                                      | 48. Appl Env Microb 71, 5560 (2005)   |
| 17. European Jour of Soil Biol, France (1996)                                   | 49. Appl. Env. Microb 71, 5560 (2005)   |
| 18. Mycorrhizal Symbiosis (Smith and Read), Acad. Press, London, New York, 1998 | 50. Soil Biol Biochem 26, 871 (1994)  |
| 19. Advance in Microbial Ecology (Rai & Dkhar), 1998                            | 51. Soil Biol Biochem 26, 871 (1994)  |
| 20. Soil Microbiology (RR Mishra) New Delhi, 1997                               | 52. Can J Soil Sci 77, 579 (1997)   |
| 21. Microbiology (S.C. Dubey & D.K. Maheshwary) New Delhi, 1999                 | 53. Biol Fert Soil <u>27</u> , 430, 1998, 86.J. Environ Qual <u>27</u> , 1268, (1998) |
| 22. Environmental Pollution UK 106,169 (1999)                                   | 54. Biol Fert Soil 86.J. Environ Qual <u>27</u> , 1268, (1998)                        |
| 23. Applied Soil Ecology, UK,14,71,72 (2000)                                    | 55. Soil Sci Plant Nutr 44, 93 (1998)   |
| 24. Soil Biol. And Biochem UK,31,9 (1999)                                       | 56. Soil Biol Biochem 31, 769 (1999)  |
| 25. Soil Biol. And Biochem UK, 31, 769 (1999)                                   | 57. Soil Sci Plant Nutr 45, 89 (1999)   |
| 26. Soil Biol. And Biochem UK, 32 1847 (2000)                                   | 58. Soil Sci Soc AMJ 63,629 (1999)  |

27. Soil Biol. And Biochem UK, 33,322, (2001)
28. Biology & Fertility of Soil, Germany, 27430, (1998)
29. Biol. & Fert. Germany, 36,497, 4975 (1999)
30. Soil Science Society, 63,629(1999)
31. Soil Science & Plants 45,803 (1999)
32. Sweden journal of Agricultural Research, 28 117 (1998)
33. Soil Biol & Biochem. 31,9 (1999)
34. Soil Biol & Biochem. 29, 171 (1997)
35. Journal of Appl. Microbiolog 89,78 (2000)
36. Canadian Journal of Soil 77, 579 (1997)
37. Journal of Environmental Quality 27,1268 (1998)
38. Soil Science & Plants 64,93 (1998)
39. Pedobiologia, Germany, 30 (2)137 (1998)
40. Canadian Journal of Microbiology 43,85 (1997)
41. Plant and Soil, The Netherland 189,32 (1997)
42. Plant and Soil, The Netherland 92,387 (1987)
43. Soil Biol and Biochem. UK,28,1073 (1996)
44. New Phytologist, UK,131,4531 (1995)
45. New Phytologist, UK,123,307 (1993)
46. Physiol Str. 185k,57 (1994)
47. Environ. Jour. Of Soil USA,30 (1)25 (1994)
48. European Journ of Soil, France 30,11 (1994)
49. Pedobiologia, Germany,38,125 (1994)
50. Soil Biol Biochem. UK,25,1763 (1993)
51. New Phytologist, UK, 98, 441 (1985)
52. New Phytologist, UK,108,745 (1987)
53. Mycotaxon, USA,26,473 (1986)
54. Oecologia, France, 68,241 (1986)
55. Plant and Soil, The Netherland, 101,121 (1987)
56. Canadian Journal of Forestry, 17,929 (1987)
57. Proc. Acad of Science India, (P1) (1982)
58. Acta Botanica Indica, 10,43 (1982)
59. Mycotaxon, USA,27 (1986)
60. Plant & Soil 80,105(1984)
61. Biol Fert Soil 12, 272 (1992)
62. Soil Biol Biochem 24, 265 (1992)
63. Pedo biologia 38, 125 (1994)
64. New Phytol 106, 745 (1987)
65. Mycorrhiza 3, 123 (1993)
66. Can. J. Bot 73, 991 (1995)
67. J.Appl Microbiol 89, 178 (2000)
68. Soil Sci Plant Nutr 47, 477 (2001)
69. Common Soil Sci Plan 33, 3745 (2002)
70. Soil Biol Biochem 34, 1157 (2002)
71. Aqr Ecosys Environ 100, 3 (2003)
72. Soil Sci Soc AMJ 67 1250 (2003)
73. Int J Sust Dev World 11 298, 2008-09-18,
74. Symbioses 17, 237 (1994)
75. Plant Soil 170,5, (1995)
76. Swed J Agr Res 28, 11 (1998)
77. Plant Growth Regulation 35, 97 (2001)
78. Forest Ecol Manag 170,307 (2002)
79. Appl Soil Ecol 19,13 (2002)
80. New Phytol 153,43 (2003)
81. New Forest 25, 125 (2003)
82. Plant Soil 254,179 (2003)
83. Symbiosis 36, 69 (2004)
84. Chemosphere 60, 1462 (2005)
85. Soil Biol Biochem 31,9 (1999)
86. Soil Biol Biochem 32,1847 (2000)
87. Appl Soil Ecol 14,71 (2001)
88. Phyto pathology 91, 47 (2001)
89. Soil Biol Biochem 33,311 (2001)
90. Redobiologia 42,23 (1998)
91. Biol Fert Soils 30,117 (1999)
92. Biol Fert Soils 31,102 (2000)
93. Biol Rev 77,455 (2002)
94. Ecography 24,181 (2001)
95. Microbiol Mol Biol 66,592 (2002)
96. Mycol Res 106,74 (2002)
97. Mycotaxon 88,249 (2003)
98. Plant Ecol 171,35 (2004)
99. J.Exp Bot 56 175 (2005)
100. Mutat Res-Gen Tox En 520,125 (2002)
101. Mutat Res-Gen Tox EN 519, 75 (2002)
102. Genomics 82,596 (2003)
103. Int. J.Oncol 23,697 (2003)
104. Mutat res-Fund Nol M 526,9 (2003)
105. Mutagenesis 18,53 (2003)
106. Toxicology 185 89 (2003)

99. Curr Sci, India 77, 1095 (1999)
100. In VITRO Cell Dev AN 37, 158 (2001)
101. Mycorrhiza 15, 121 (2005)
102. P. Indrani AS-Chem Sci 91, 69 (1982)
103. Canadian J. Forest Res 23, 1275 (1993)
104. Appl. Environ Microb 71, 2713 (2005)
105. Aquat Bot 19, 251 (1984)
106. TR British Mycologic 05, 683 (1985)
107. Canadian J Botany-J-CA 65, 419 (1987)
108. Environ Toxicol Chem 23,2868 (2004)
109. Rus J Genet 40,1300 (2004)
110. Mutagenesis 18 53 (2003)
111. AM J Epidemiol 162,858 (2005)
112. Toxicology 203 49 (2004)
113. Toxicol Sci 85, 615 (2005)
114. Arch Toxicol 79 169 (2005)
115. Medicinal Plant of Nagaland(2007) Bishen Singh.
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117. Forest Ecology & Management (2002), Elsevier.
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121. Journal of Nanjing Forestry Univ. vol. 129 (6), 2005.
122. Biotechnology of VAM : Indian Scenario (S. Chandra & K.K. Kehri), 2006.
123. Plant & Soil 80, 105 (1984).
124. Mysorrhiza (Cazares, E, Trappe, J.M., 1993), Springer.
125. Handbook of applied Mycology (Paulitz, T.C. and Linderman, R.G.), 1991.
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129. The Mycorrhizal : Diversity, Ecology and Applications (2007) 87 – 101.
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142. Invitro Cellular and Developmental Biology-Plant (2001 – M.K. Rai), springer.
143. Mycorrhiza, 2005, Springer.
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151. Acta Media Okayama (2006) lib. Okayama-u.ac.jp.
152. Microorganisms in Plant diversity conservation, 2002, Springer.
153. Journ. Of Forestry (2006), Springer, 17 (3), 201-205.
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156. MycorrhizaTechnology in Agriculture, From Genes to ..... books google.com (Gianinazzi, S, Scuepp, H., Barua, J.M. and Masdwardter, K), 2002.
157. Appl. Env. Microbiology (2005) A. Soc. Microbial (Snelling et. al.)
158. Soil microorganisms, mycorrhiza and restoration ecology.
159. Z. Filip. Um. Schand. Fors. (1995), Springer.
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161. Freshwater Biology (2006) interscience.wiley.com
162. Journal of Ecology (1996) jstor.org.

174. The Journal of Microbiology (2004), 285 – 291, vol. 42 (4).
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177. Mutation Research w3.gazi.edu.tr (2006).
178. Mutation Res. – Genetic Toxicology and env. Mutgenesis (2006), Elsevier.
179. Russian Journ. Of Genetics (2008), Springer.
203. Mycorrhiza (1993) – Springer.
204. Hydrobiologia (1997) – Springer.
205. Plant & Soil (1997)191, 1-12.Kluwar Acad. Press.
206. Limnology and Oceanography (1998). Jstor.org.
207. Mycology research, 2004, Cambridge Univ. Press.
208. Aquatic Botany (1999) – Elsevier.
209. Soil Biol. & Biochemistry (2006), Elsevier.
210. Ecological Applications (2007), Eco. Soc. America.
211. Intl. Rev. of Hydrobiology (2006), Interscience. Wiley.com
212. Mycorrhiza Biology (2000) – Mukherjee & gupta.books.google.com
213. Global change Biology – Inter-science. wiley.com
214. Plant & soil, 189, 321-329 (1997), Kl.Acad. Press.
215. Soil Biol Boocher (2000) Elsviev
216. Enzymes in the env. Activity, (2002), Ecology. Books.google.com
217. Soil Sci. Soc. Am. Journal (2004) Soil Sci.soc. America
218. Applied Soil Ecology (2000) elsvier
219. Biol. Fert of soil (1992), Springer.
220. Journ. of Archaeological sci. (2004), Elsevier.
221. Europ. J. Soil Biol. (2001), Elsevier.
222. Revista chilena de historia natural (2001), sci ELO, Chile
223. Acto Ecologica Sinica vol. 24 (12), 2004.
224. Boreal Environ. Res (2001), borenv.net
225. Polish Journ. Of Natural Sci (2008), Verseta.
226. Frontiers of Forestry in China (2009), Springer.
227. Acta Botnica Brasilica (2001), sciElo Brasil.
228. Journ. of Plant Nutr. And Soil Sci 2001, Inter-science, wiley.com
229. Soil Ecology Res. Dev. (2008) books.google.com
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233. Plant & soil (1995), Springer.
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240. Plant Growth Regulation (2001), Springer
241. New Forests (2003), Springer
242. Folia Geobotanica (1996), Springer
243. Plant & soil, 1-8 (2002).
244. Res. Journ. of Agric & Biol. Sci (2008), insinet.net
245. Proc. Ind.netn. sci.Acad.B 66 (485) 223-238 (2000).
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250. Land Degradation & Dev. (2001), inter-science.wiley.com
251. Journ. Appl. Microbial (2000) Inter-science, wiley.com
252. Pedosphere (2006), Elsevier.
253. Scientia Agricola (2004), Sci Elo Brasil.
254. International Agrophysics (2000) ia.ipaw.lublin.pl
255. Agriscientia (2003) crean.org.ar
256. Ecological Res. (2006), Springer
257. Journ. of Anhui. A. Sci. 34 (1) 103-105, 2006.
258. Journ. of For. Res. (2006), Springer
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262. Europ. Journ. soil. Biol (2008), Elsevier
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264. Acid Land Res. & Manag (2006) Informworld.com
265. Google.equip.com (2006).
266. Journ. Trop. For Sci. (2007), SciElo Brasil

Informaworld.com

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 237. Forest Ecol. & Manag. (2002) Elsevier  
 238. Applied Soil Ecol (2002), Elsevier.  
 239. Plant & Soil, 254, 179-186 (2003).  
 240. Europ. Journ. For Res (2007), Springer  
 268. Acikersiv.ankara.edu.tr (2008).  
 269. Heavy Metal Pollution and Mycorrhiza, today & tomorrow Publ., New Delhi (2010)  
 270. Integrated Pest Management, Swastic Publ., New Delhi (2010).

**Research guiding experience** 28 years

- a) Students supervised for Ph.D 20  
 b) Students supervised for M.Phil 5  
 c) Students working for Ph.D 11  
 d) Post Doctoral Fellow worked 4

**Working Experience in reverse order**

Post held	Employer	Name of work	From	To
Pro-Vice-Chancellor	Assam University	Educational and Administration	July 2007	Contg.
Professor & Dean	Assam University	Teaching, Research & Administration	April, 2006	Contg.
Vice-Chancellor	Nagaland University	Educational and Administration	July 2001	April, 2006
Dean	Assam University	Teaching PG, M.Phil & Research and Administration	June 1996	June 2001
Professor & Head	School of Life Sciences	Teaching P.G., M.Phil & Research, and Administration	May 1996	August 1999
Reader	North Eastern Hill University, Shillong	Teaching & Research	May 1988	May 1996
Sr. Lecturer	-do-	-do-	January 1986	April 1988
Lecturer	-do-	-do-	December 1981	December 1985
Temporary Lecturer	-do-	-do-	March 1979	November 1979
Sr. Lab Tech	-do-	-do-	Nov. 1979, Nov. 1974	Dec. 1981 March 1979

**List of Ph.D. students supervised by Prof. G.D. Sharma**

Sl.No.	Name	Title of Thesis	Year
1.	R.S.Katiyar	Studies on Orchids of N.E. India, Ecophysiology of Mycorrhiza (NEHU)	1986
2.	D.K. Jha	Ecological studies on Vesicular arbuscular mycorrhiza (VAM) fungi in secondary successional plant community at higher and lower altitudes of Meghalaya (NEHU)	1990
3.	Raj Kumar	Ecological investigation on ectomycorrhiza of Khisi	1990

		pine ( <i>Pinus kasiya</i> Royle ex. Gordon) in different soil conditions (NEHU)	
4.	B.N.Jha	Studies on the climatic conditions on the development and efficiency of ectomycorrhiza of pine ( <i>Pinus kasiya</i> Royle ex Gordon) (NEHU)	1990
5.	S Kshattriya	Ecological studies on the Microbial and Biochemical aspects of forest litter decomposition at higher and lower altitudes of Meghalaya (NEHU)	1991
6.	Manju Chauhan	Studies on distribution and function of ectomycorrhiza in and translocation of labelled compounds P32 & C14 in Pine seedling (NEHU)	1992
7.	S.R.Joshi	Ecological studies on the effect of air pollution on the leaf surface microbes and litter decomposition (NEHU)	1992
8.	H.Kayang	Ecological studies on the biodegradation of leaf litter of alder ( <i>Alnus nepalensis</i> ) with special reference to the role of microbes and isopods (NEHU)	1993
9.	G.Gansesh	Study on genetic diversity of Frankia alni strains isolated from <i>Alnus nepalensis</i> root nodules found in Meghalaya (NEHU)	1994
10.	C.S. Rao	Ecophysiological studies on the productivity of ectomycorrhizae in pine ( <i>Pinus kesiya</i> ) (NEHU)	1995
11.	M.Pradhan	Studies on interaction VAM & Frankia in non leguminous tree species ( <i>Alnus nepalensis</i> ) of N.E. India (NEHU)	1995
12.	C.Massar	An Ecological study of seed borne fungi and mycotoxin in maize ( <i>Zea mays</i> L) (NEHU)	1995
13.	T. Jungla	Effect of heavy metals on the structure and function of ectomycorrhiza of <i>Pinus kesiya</i> (NEHU)	1999
14.	E.M. Blah	Studies on the microbiology of coal mine spoil of Jantia Hills, Meghalaya (NEHU)	1999
15.	S.Giri (Deb)	Studies on the Genotoxic effects of pesticides in mice and chick in vivo using multiple cytogenetic analysis end pint (Assam University)	2001
16.	S.K. Paridha	Study of VAM under different agricultural ecosystems of Meghalaya (NEHU)	2002
17.	Ajit Kr. Das	Study of medicinal Plants used by different communities of Cachar district, Assam, India (Assam University)	2006
18.	Arnav Das	Isolation and Molecular characterization of <i>Closteridium perferingens</i> (Assam University)	2007
19.	Suvasish Choudhury	Bioactivity Evaluation and Phytochemical Characterization of <i>Pajanelia longifolia</i> (Willd.) K. Schuman, Assam University.	2009
20.	Sujata Bhattacharjee	Ecological studies on Vesicular Arbusclar Mycorrhiza (VAM) in different Agro ecosystemsof Barak Valley, Assam, India	2010

**List of students supervised for their M.Phil Degree:**

1. Ajit Kumar Das: Ethnomedicobotanical study of Cachar district, Assam, India, 2001
2. Lipica Sarkar : Studies on the microbiology of fermented food used in the district of Cachar, Assam (2001)
3. Joyshree Chakraborty : Ethnomedicinal study on N.C. Hills district of Assam, India, 2007.
4. Debmita Chakraborty: Diazotrophs N fixing bacteria in sugarcane crop, 2008
5. Jahan Ara Begum : Phyllosphere Microbes of Tea Leaves (*Thia sinensis*), 2009.

**List of students presently working for their Ph.D Degree:**

1. Rashmi C. Chaudhury : Etiological study of Canada disease with AIDS patients (2006)

2. Biswajeet: Studies on Diazotrophs on Barak Valley (2006) (Joint Sup)
3. Pratibha : Studies on Rhizobium of legume tree in Tea Plantation crop (2007)
4. Alka : Microbiology of Banana Fermentation (2007)
5. Durga Sharma : Microbial degradation of organic wastes of HPC (Part time Joint)
6. Ratna Roy : Genetics of Draught Tolerance of Rice (Part time, Joint)
7. Sneha Gang : Effect of cd on Immunomodulation of Neuro-Specimic systems (joint)
8. Biswajeet Chakraborty : Anti-microbial hepato protective and Immunomodulatory role of Curcuma longa, zingiber officinalis & Tinospora cordifolia in Rat (Joint Sup)
9. Jayashree Chakravarty : Microbiology & Biochemistry of Traditional Food Fermentation used by tribals of NC Hills district (Part time Joint Sup.)
10. Bibhash Rajkumar; Microbial diversity in aquatic systems of Barak river , 2008
11. Folguni , Diazotroph diversity in the rhizosphere of sugarcane species,2009.

**Research projects undertaken as investigator :**

1. Fungal association-----Orchids of N.E. India, DST, New Delhi 1982-1986
1. Studies on Mycorrhiza-----Tree species of N.E. India, ICAR, New Delhi 1982-85
2. Radio Ecology of Root-----Pine, DAE, Bombay, 1982-1986
3. Studies on mycorrhiza-----Pine, UGC, New Delhi, 1984-88
4. An Integrated Pathological ----N.E. India, CSIR, New Delhi, 1984-1988
5. Role of Soil Microbes-----West Khasi Hills, Ecodevelopment, NEHU, 1985-1988
6. Studies on soil microbes----N.E. India D.O.En, New Delhi, 1986-1990
7. Interaction between vam and pathogenic fungi,CSIR,New Delhi, 1990-93
8. Studies on Frankia-----NE India, CSIR, New Delhi, 1990-1993
9. Ecology and molecular biology of Frankia, Indo-French, 1992-95
10. Conservation of rare----South Assam, Ministry of Environment and Forestry, New Delhi, 1997-98
11. Setting up of Bio energy Park, Min. of Non Conv. Energy, New Delhi, 1997-98
12. Biodiversity of medicinal--- Orchids, NATP, NBPGR,ICAR, 1999-2002
13. UGC-DRS – (2007-Contd. – Coordinator, 2007)
14. BIF, DBT, Govt. of India (--Co-ordinator, 2008)
15. FIST – DST, Govt. of India (– Co-ordinator, 2008)

**National/international seminar/symposium attended and paper contributed :**

1. National Symposium of Ecology, Muzaffarnagar, India, 1977
2. National Symposium on Environment, Shillong (Nat.Acad Sci),1979
3. National seminar on Environment ISCA Jadavpur Calcutta, 1980
4. Indian Science Congress, Varanasi, 1981
5. International Workshop on Mycorrhizae at Serdang, Malaysia, 1982
6. Seminar on Resource Potential of N.E. India, Shillong (Meg. Sci.Soc.), 1981
7. Seminar on Advances in Microbial Ecology, Shillong, 1983
8. International seminar on Life Science, Shillong, 1983
9. IUFRO Symposium on Root Biology and Symbiosis, Canada, 1986
10. INTECOL Seminar on Ecology, USA, 1986
11. International Workshop on Mycorrhizae, JNU, New Delhi, 1987
12. First Asian Conference on Mycorrhizae, Madras, 1988.
13. National seminar on Orchids, Shillong 1988
14. National seminar on Molecular Biology, Shillong, 1990
15. National Seminar on Mycorrhizae, Hissar, 1990
16. INTECOL Congress on Ecology, Japan, 1990
17. 3<sup>rd</sup> European Conference on Mycorrhizae, UK, 1991
18. Seminar on Forest Management, Shillong, 1993
19. Workshop on Social Forestry, Byrnihat, 1994
20. Workshop on Ecodevelopment & Natural Disaster Reduction, IIPA, New Delhi 1995
21. International Conference on Exploitation on Microbes, BHU, Varanasi, 1996
22. National Symposium on Biodiversity and Ethnobotany, Bhagalpur, 1996
23. Workshop on Environment, Assam University, Silchar, 1996
24. National Seminar on Environment at NEHU, Shilloong, 1996

25. Workshop on Status of Landslides and Natural Disaster Management, AUS, 1997
26. Seminar on Biodiversity, Agriculture and Climate Changes, NEHU, Shillong, 1998
27. Seminar on Perspective Planning and Development in N.E. India, Itanagar, 1998
28. Environmental Problems of N.E. India, Assam University, Silchar, 1998
29. Integrated Pest Management in North East India, Assam University, Silchar, 1998
30. Recent Trends in Biology, NEHU, Shillong, 1999
31. National Workshop on Agricultural Biodiversity NBPGR, Shillong, 1999
32. UGC sponsored seminar on Biodiversity, Karimganj, 2000
33. International seminar on Agroforestry, Aiswal, 2000
34. National Seminar on Approaches for increasing Agr. Prod. In Hill & Mountain Ecosystem, Shillong, Oct., 2001
35. National Workshop on Microbial Biodiversity, Gauhati, 2001
36. Workshop on Application of Improved Technology for Afforestation, Jorhat, 2001
37. NATP Workshop on Biodiversity, at NBPGR, New Delhi, 2001
38. NAAC Workshop on Quality Education, Kohima, 2002
39. International Seminar on Population, BHU, Varanasi, 2003
40. International seminar on Organic Food, Shillong, 2004
41. National Seminar on Microbial Diversity, ASTEC, Gauhati, 2006
42. National Symposium on Diversity of Plant Pathogens & Manag. Imphal, 2006
43. Research Methodology in Basic Sciences, Assam University, Silchar (AIU), 2006
44. National Seminar on International Disaster Management, Guwahati (CIDC & NADM), 2007
45. National seminar on Medicinal Plants, Hailakandi (Forest Dept., Assam) 2008.
46. International seminar on Green Building, Energy & Env., Beijing, China, 2008.
47. International seminar of Earthquake & Natural Disasters, New Delhi (2008).
48. Indian Science congress, Shillong, 2009.
49. National Seminar on Bio-diversity, Silchar, 2009.
50. National workshop on Bamboo & Cane, Forest Deptt., Silchar, 2009.
51. Workshop on IPR – CSIR, AUS, Silchar.
52. National Seminar on Estimable Livelihood Development through Fruits and Vegetables processing in N.E. India 8<sup>th</sup> – 9<sup>th</sup> March, 2010.
53. National Seminar on Small Scale Entrepreneurship Development in N.E. India, at AUS 3 – 4<sup>th</sup> March, 2010.
54. National Seminar on Biodiversity and conservation 5<sup>th</sup> – 6<sup>th</sup> March, 2010 at AUS.
55. Workshop on PCR Based Advanced DNA Finger Printing (DBT – Govt of India) 21<sup>st</sup> April – 5<sup>th</sup> May, 2010. & Delivered a lecture on Microbial Diversity and Hands on Training of PCR – DNA finger Printing of Bacteria (on 29.04.10), AUS
56. Choice Based workshop for Teachers of Assam University College Teacher 6<sup>th</sup> May, 2010, AUS.
57. National Seminar on Green Building concept and Human Resource Development on 7<sup>th</sup> May, 2010, AUS.
58. International Conference on Biodiversity and Cultural Diversity, at Montreal University, Canada, from 8<sup>th</sup> to 10<sup>th</sup> June, 2010

**Member of Organising Committee of International/National Seminar :**

1. Seminar on Advances in Microbial Ecology, Shillong, 1983
2. IUFRO Seminar on Root Biology and Symbioses, Canada, 1986
3. 3<sup>rd</sup> European Symposium on Mycorrhizae, UK, 1991
4. Colloquium on the role of Bot. gardens in conservation of plant species, AUS, 97
5. Workshop on Status of Land Slides & Nat. Dist. Manag., (Convenor) AUS, 1999
6. Integrated Pest Management in N.E. India (Convenor), 1999
7. National Seminar and Workshop on Earthquake & related Hazard Manag., 2001
8. International Conf. on Current Trend in Algal Bio-resource Utilization, Assam University, 2006
9. Workshop on Research Methodology of Sciences AIU-AUS, 2006 (Contd.)
10. Workshop on Research Methodology for Life Scientists, AUS, 2008.
11. National Seminar on Bio-diversity, March, 2009, Assam University.
12. National Seminar on DNA Bar-coding, AUS, April, 2009.
13. National Seminar on Microbes & Health, Kolkata, Dec. 2009.

14. IPR – CSIR and Assam University, Silchar, 2009.
15. Vice-Chairman of International Conference on Global Warming, Climate Change vis-a-vis Management of Natural Resources in North East India held at Guwahati 22 – 23 March, 2010.
16. Advisor of National Conference on Current Trends in Computer Science (CTCS - 2010) February 22 – 24, 2010, AUS.
- 17.

**Research problems of current interest :**

Microbial Diversity, Microbial resources, Mycorrhiza, Microbial Interactions, Plant Pathogens, Microbial Degradation, Microbial Enzyme Technology, Mycotoxins Medicinal Plants and Conservation

**Technical session chaired :**

1. Seminar on Social Forestry, NEHU, 1993
2. International Seminar on Microbes, BHU, Varanasi, 1996
3. National Conference on Biodiversity and Ethnobotany, Bhagalpur, 1996
4. Conference on Environmental Resources, NEHU, Shillong, 1996
5. Status of Land Slides, AUS, 1997
6. Conference on Human Rights and Insurgency in N.E. India, AUS, 1997
7. Conference on Society, Development and Tea Industry, AUS, 1998
8. National Problems of N.E. India, AUS, 1998
9. Seminar on Biodiversity, Karimganj (UGC), 2000
10. International Conference on Agro forestry, NEHU, Aizwal, Mizoram, 2000
11. National Seminar on Hill Agriculture, ICAR, Shillong, 2001
12. International Seminar on Organic Food, ICAR, Shillong, 2004
13. International Seminar on Algal Bioresource Utilization, Assam University, Silchar, 2006
14. National Seminar on Plant Pathogen Diversity, Manipur University, 2006
15. National seminar on Right to Information, Assam University, 2006.
16. National Seminar on Bio-diversity at Guwahati, 2007
17. National Seminar on Medicinal Plants, Hailakandi, 2008.
18. Workshop on IPR, AUS, Silchar, 2009.
19. National Seminar on DNA Bar-coding, 2009.
20. National Seminar on Bio-Diversity, 2009.
21. Vision – 2020 – September, 2009 for North East Region.

**Educational administrative experience**

- Working as Pro-Vice-Chancellor in Assam University since July 2007 and Dean, Life Sciences since May 2006.
- Chairman, Administrative, Academic & Financial Reforms Committee, AUS.
- Have worked as Vice-Chancellor of Nagaland University since July 2001 to April, 2006
- Founder Dean for more than 5 years and 3 years as Founder Head, Department of Life Science, Assam University, Silchar.
- Few months In charge of Dept. of Botany and Biochemistry, NEHU, Shillong.
- Chairman of Academic Bodies like School Board, Board of Post Graduate Studies, Board of Undergraduate Studies of Assam University and member of BPGS of other Universities.
- Member of decision and policy making bodies like Planning Board, Court, Executive Council, Academic Council and Finance Committee of Assam University.
- Chairman of Executive Council, Academic Council, Planning Board and Court of Nagaland University.
- Warden for 2 years in NEHU
- Founder Secretary of NEHU Book Coop. Society, Joint Secretary of NEHUTA.
- Acting VC of Assam University, May & June, 2000.
- Member of Executive Committee of Indian Inst of Mass Comm.(IIMC), nominated by the Ministry of Information and Broadcasting, 2002-2004
- Member of Research Council, RRL, CSIR, Jorhat, 2004-2007 (March),

- Member of Indian Association of Social Sciences, New Delhi, 2003-2005.
- Member of Technical Advisory Committee, Institute of Applied Manpower Research, New Delhi.
- Chairman, NAAC, Committee on Quality Assessment and Accreditation of Higher Education.
- Currently working as Dean, Life Sciences, Assam University since May 2006.
- Biography appeared in Who's Who in World, USA
- International men of the year 2007.
- Chairman of various Committees on Administrative and Academic reforms, AUS, 2007 – 09.
- Chairman, IX Plan visiting Committee to Burdwan Univ. & Jadavpur Univ., 2008.
- Chairman, NAAC visiting teams to various Universities and Colleges in India.

**Impact factor of some important journals in which research papers published recently :**

(Prof. G.D. Sharma) as on 2008

1. The New Phytologist, U.K.		- 5.249
2. Mutation Research, USA*	- 4.159 x 2	- 8.318
3. Pedobiologia, Germany		- 1.383
4. Sydlowia, Austria		- 0.556
5. Soil Biology & Biochemistry, UK*	- 2.58 x 4	- 10.32
6. Biology & Fertility of Soil, Germany		- 1.19
7. European Journal of Soil Biology, UK		- 0.5
8. Folia Microbiologia, Czeck		- 0.989
9. Canadian journal of Microbiology, Canada		- 1.286
10. Mutagenesis, USA		- 2.382
11. Current Science, India	- 0.8 x 4	- 3.2
12. Experientia, Switzerland		- 0.5
13. Acta Mycologia, Poland		- 0.5
14. Cytologia, Japan		- 0.7
15. National Academy of Science, India	- .11x4	- 0.44
16. Biology Fertility of Soil		- 1.191
17. Indian Journal Agri. Science		- 0.122

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Total - 36.095

- *Represent the no. of papers published in this Journal*

**Journals in which papers are published (Prof. G.D. Sharma)**

1. The New Phytologist, U.K.
2. Pedobiologia Germany (West)
3. Mutation Research, USA
4. Sydowia, Austria
5. Experientia, Switzerland
6. Soil, Biology and Biochemistry, U.K.
7. Biology and Fertility of Soil, Germany (West)
8. European Journal of Soil Biology, France
9. Folia Microbiologia, Czechoslovakia
10. Acta Mycologia, Poland
11. Proceeding of Int. Found Sci. Sweden
12. Canadian Journal of Microbiology, Canada
13. Cytologia, Japan
14. Mutagenesis, USA
15. Journal of Plant Science, USA

16. Acta Botanica Hungarica, Hungary
17. Ecoprint, an International Journal of Ecology, Nepal
18. Asian Journal of Microbiology, Biotechnology and Environmental Sciences, India.
19. National Academy of Science, India.
20. Current Science, India
21. Acta Botanica India, India
22. Indian Phytopathology, India
23. Journal of Indian Botanical Society, India
24. Science and Culture, India
25. Hill Geographer, India
26. Journal of Tree Science, India
27. Journal of Meghalaya Science Society, India
28. Indian National Science Academy, India
29. Indian Forester, India.
30. Indian Journal of Botany, India
31. Journal of Environmental Science, India
32. Advances in Plant Science, India
33. Academy of Science, India.
34. Journal of Science Res. India.
35. Journal of Orchid Society of India
36. Journal of Soil Biol & Ecol. India
37. Tropical Ecology, India
38. Journal of Assam University, India
39. Journal of Hill Research, India
40. Indian Journal Mycol Pathology, India
41. Indian Journal Plan Genetic Resources, (ICAR), India
42. Vasundhara, India
43. Journal of Environmental Biology, India
44. Ecobios, India
45. Journal of Economic & Taxonomic Botany, India.
46. Indian Journal of Traditional Knowledge, India.
47. Indian Journal of Agri. Science, India.
48. International Journal of Plant Sciences, India.
49. Geobios, India.
50. Indian Journal of Pollution Research.

**MAJOR ACHIEVEMENTS DURING THE TENURE OF VICE-CHANCELLOR  
OF NAGALAND UNIVERSITY, PROF. G.D. SHARMA, (2001-06)**

**A. Academic:**

- Revision of all Graduates and Post graduates courses syllabi as National Curricula of UGC
- Completion of NAAC assessment and accreditation for Quality Education
- Preparation of Vision 2020
- Increase in number of Post graduate students from 750 to 1200
- Increase of number of PhD scholars from 50 to 200
- Launching of Joint PG Diploma in Mass Communication of NU and IIMC, New Delhi
- Increase of number of UGC NET examine and establishment of UGC NET Centre at NU
- Nearly 40 Research Projects sanctioned by various Funding Agencies
- Sanction of 3 FIST from DST, New Delhi and one Special Assistance Programme by the UGC
- First Convocation was held after 9 years with former Hon'ble PM of India, Shri Atal Bihari Vajpayee
- Establishment and implementation of research collaborative programme with International Potato Research Centre (Peru/Delhi)

- Award of 4 US Patents and best research paper to two lady teachers of the University
- Visits by National and International visiting Professors
- Production of Text Books and Reference Books by the University
- Launching of Research journal of the University in 2001
- Establishment of Centres on Women Studies, Gandhi Peace Study, Tribal Study, Biodiversity and Computer Centre
- Holding frequent meetings of Academic Statutory Bodies
- Initiation of Exchange of students with other Universities under AIU
- More youth and sports activities with AIU collaboration
- Launching of Rural Agricultural Work Experience (RAWEX), for agricultural graduates for 3 months to transfer knowledge to tribal village farmers
- Initiation of Farmers – Scientists meet with University teachers.
- Automation of Library, e-Journal facility under INFLIBNET
- Internet facility for Teachers and students initiated
- Grant of Autonomous status to one of its affiliated college by the UGC for the first time in North East India
- Initiation of Campus Placement
- Preparation of DPR for the establishment of Institute of Engineering and Institute of Management
- Initiation of work on EDUSAT programme.

#### **B. Administrative and Financial:**

- Reformation of Examination and its Automation
- Initiation of Networking of three campuses of the University
- Finalisation of Land Deeds of Lumami Hqr. And allotment of land for Kohima campus at Merima village
- Frequent holding of meetings various statutory bodies
- Training for Officers and Staff members for their upgradation of knowledge and skill
- Participatory approach of management through committees and enhancement of transparency
- Completion of Accounting and Auditing upto 2003 to 2004 from nil
- Completion of GPF accounting
- More transparency and accountability through Finance Committee and other administrative and academic committees

#### **C. Infra-structure:**

- Grant of Special Funds under PM package of Rs. 45 crores for Infra-structure development and its implementation through a Central Agency, NBCC
- Completion of implementation of infra-structure under PM package (Devi Gowda) and NLCPR package
- Rs. 4 crore as Development Funds for SC/ST students from Ministry of Social Justice and Empowerment
- For the first time Development Funds from ICAR, Ministry of Agriculture, New Delhi, to improve the quality of Agriculture Education
- Initiation of Establishment of Engineering and Management Institutes in the University
- Establishment of Botanical Garden for Conservation of rare and endangered plant species under Ministry of Environment and Forest, New Delhi
- Established facility for Fish Breeding and Training facility under DBT, Ministry of Science and Technology, New Delhi.

### LIST OF PUBLICATION OF PROFESSOR G.D.SHARMA.

1. Mishra, R.R. and Sharma G.D. 1977, Ecology of soil Fungi: Population variation in relation to cover vegetation and soil factors. *Sydowia (Austria)* 30. 130-140.
2. Mishra, R.R. and Sharma G.D. 1979. Distribution of Endogonaceae in a Sub-tropical humid forest of Meghalaya. *Nat. Acad. Sci. India, Special volume on environment*, 61- 66.
3. Mishra, R.R. Sharma G.D. and Gatpoh ,A.R. 1980. Mycorrhizae in ferns of North Eastern. Region of India. *Proc. Indian Nat. Sci. Acad.* B46, 546-551.
4. Mishra, R R., and Sharma G.D. 1980. Report on root nodule formation in *Eupatorium* sp. *Current Science* 46, 444-447.
5. Mishra, R.R., and Sharma G.D. 1980. Report on root nodule formation in *Crossocephalum*. *Acta Botanica Indica*, 8, 253 - 255.
6. Mishra, R.R, and Sharma G.D. and Karsyntiew, LB. Response of inoculum density of vesicular arbuscular mycorrhizae of maize (*Zea maize*) plants. *Experientia (Switzerland)*, 37, 568 — 569.
7. Sharma G.D. 1981. Effect of soil on microorganisms in pine forest of Meghalaya. *Folia Microbiologia (Czechoslovakia)* 9, 321 -327.
8. Mishra, R.R. Sharma G.D. Tiwari, B.K. 1981. Report of *Fusarium* wilt on *Pinus kesiya* Royle. *Current Science* 50, 30.
9. Tiwari, B.K.. and Sharma. G.D. 1981. Seed mycoflora of eleven tree species of North East India. *Indian Phytopathology*. 34, 83.
10. Sharma G.D. and Tiwari,B.K. 1981. Leaf surface mycoflora of healthy and diseased (*Phytophthora infestans*) *Solanum khasianum*. *Acta Botanica Indica*, 9,233-237.
11. Sharma G.D. and Misbra, R.R. 1981. Effect of jhuming on mycorrhiza in four communities. *Jour. Indian Bot. Soc.* 56, 20-21.
12. Sharma G.D. and Mishra R.R. 1981. Myconhizal fungi in forest ecosystem. In *Development without Destruction*. Forest Department. Pubi., Government of Meghalaya. pp. 50—60.
13. Mishra, R.R. and Sharma G.D. 1981. Studies on Mycorrhizal association of *Pinus kesiya*. *Jour. Indian Bot. Soc.* 60, 168- 171.
14. Reddy, MV. and Sharma G.D. 1981. Some observation on the aphid mycorthizal association. *Science and Culture*, 47, 339-344).
15. Sharma G.D. 1981. Influence of mycorrhizal development stage and plant age on rhizosphere microflora of pine, *Acta Mycologia*, (Poland) 17, 45-51.
16. Sharma GD. and Mishra, R.R. 1982. Mycorrhizal association in gymnosperns of Meghalaya. *Acts Botanica Indica*. 10, 43-49.
17. Chaubal, R, Sharma G.D. and Mishra,R.R. 1982. Vesicular arbuscular Mycorrhizal in aquatic plant communities. *Proc. Aca. Sci.* 69-77. 1982.
18. Mishra, R.R. and Sharma G.D. 1982. Status of Mycorrhizal fungi in subtropical pine forest community. *Proc. I.F.S.(Sweden) Serdang*, 236 - 249.
19. Sharma G.D., Tiwari, B.K., Saxena, K.G. Verma, N.K. and Mishra, R.R. 1982. Mycorrhize and soil microbial characters of influenced by shifting cultivation *Proc. Int Found. Sci. (Sweden), Serdang, Malayasia*, 408- 415.

20. Sharma G.D. 1983. Influence of Jhuming on the structure of function of microorganisms in forested ecosystem. *Hill Geographer*. 2, 1 - 11.
21. Sharma G.D. and Mishra R.R. 1984. Mycorrhizal in forestry. *Resource Potential North East: Living Resources* (ed. Tripathi, R S. ) Vol. 2, 1 - 11.
22. Sharma S.K., Sharma G.D. and Mishra R.R. 1984. Endogonaceous mycorrhizal fungi in the Subtropical evergreen forest of North East India *Jour. Tree Sci.* , 3. 10— 14.
23. Raghuvanshi, A.N., Mishra R. R., Tandan, P., and Sharma G.D. 1985. Studies on asymbiotic seed germination of orchid seeds. *Jour. Meghalaya Sci.* 7 & 8, 1 - 5.
24. Mishra, R.R. and, Sharma G.D. 1985. Studies on fungal association with Orchids: physiological and biochemical factors that influence germination, growth and development of orchids. In *Proc. Workshop on plant physiology & Biochem* (Madurai) 55-61.
25. Raghuvanshi, A.N., Mishra. R.R. and Sharma G.D. 1985. Effect of Synthetic media on asymbiotic seed germination and seedling growth of *Dendrobium nobile* and *Sarcanthus pallidus*. *Proc. Indian Nat. Sci. Acad.* B51, 360-363.
26. Sharma G.D. Mishra R.R. and Lyngdoh, W.R. 1985. Influence of Fungicides on the mycorrhiza of pine (*Pinus kesiya* ex Gordon). *Acta Mycologia* (Poland) 21, 91-100.
27. Katiyar R.S., Sharma G.D. and Mishra, R.R. 1986. Effect of organic supplements on the seedling growth of an endangered orchid species. *Coelogyne punctulata*. *Indian Jour. Bot. Soc.* 9, 77-79.
28. Sharma G.D. and Mishra R.R. 1986. Status of mycorrhiza in subtropical forest ecosystem of Meghalaya (India). *Acta Botanica Indica* 14, 87-92.
29. Katiyar R.S. Sharma G.D. and Mishra, R.R. 1987. Asymbiotic seed germination and seedling development of *Coelogyne punctulata* and *Aerides multiflora*. *Indian forester* 113, 574-577.
30. Katiyar R.S., Sharma G.D. and Mishra, R.R. 1986. Mycorrhizal infection of epiphytic orchids in tropical forest of Meghalaya (India). *Jour. Indian Bot. Soc.* 65, 329-334.
31. Katiyar R.S., Sharma G.D. and Mishra. R.R. 1986. Studies on mycorrhizal association of terrestrial orchids. In *Biology, Conservation and culture of Orchids* (ed. Vij., S.P.) A.affiliated East West Press Private Ltd. Chandigarh. Pp 63-70, 1986.
32. Sharma S.K., and Sharma G.D. and Mishra R.R. 1986. Records on *Acaulospora* spp from India, *Current Science* 55. 77-79.
33. Sharma S.K., Sharma G.D. and Mishra R.R. 1987. Endogonaceae in subtropical forest of North east India. *Jour. Indian Bot. Soc.* 66, 266-268.
34. Raghuvanshi, A.N., Mishra, R.R. and Sharma G.D. 1986. Effect of ph on an asymbiotic seed germination and seedling development of orchids. In: *Biology, Conservation and Culture of Orchids* (ed Vij,S.P.) Affiliated East West Press Pvt. Ltd. PP. 453-462.
35. Raghuvanshi, A.N., Mishra, R.R. and Sharma G.D. 1986. Effect of ph on seed gennination and seedling development of *Dendrobium* (Wild). *Jour. Environ, Sci.* 2, 53-62.
36. Dutta, B. and Sharma G.D. 1988. A report on fusarial wilt of *Cassia fistula* Linn. *Adv. Pl. Sci.* 390-391.
37. Katiyar R.S., Sharma G.D. and Mishra, R.R. 1989. Infection efficiency of some *Rhizoctonia* strains in orchid mycorrhiza. In *Current Trend in Environmental Biology* (R.R. Mislira &K. Chatterjee), John Wiely Pubi. Culcutta pp 114-126.

38. Dutta, B. and Shanna G.D. 1989. Report on soft rot of *Duabanga grandiflora* seedling (Roxb. Ex. Waic). *Current Science*, 58,574-575.
39. Jyrwa, S. and Sharma G.D. 1989. VAM., phosphatase. Dehydrogenase and nitrification in root region of paddy under different agricultural practices. In: *Mycorrhiza for Green Asia* (eds Mahadevan, A., Raman, N. and Natarajan, K) Chennai PP. 142-144.
40. Rao, C.S. and Sharma G.D. 1989. Seasonal variation in enzyme activities in the ectomycorrhizal root region of *Pintis kesiya*. In: *Mycorrhiza for Green Asia* (Eds. Mahadevan, A. Raman, N. and Natarajan, K) Chennai PP. 159-161.
41. Sharma G.D. and Mishra R.R. 1989. Isolation techniques, maintains and measurement of post infectioq efficiency of mycorrhiza in orchids. In: *mycorrhiza for Green Asia* (Eds. Mahadevan. A. Raman, N. and Natarajan, K) Chennai PP. 235-237.
42. Sharma G.D. and Mishra R.R. 1989. Production of mass inoculum and inoculation technique for ectomycorrhizal fungi. In: *Myconiiiiza for Green Asia*. Proc. First Asian Conf On mycorrhiza (Eds. Mahadevan, A. Raman, N. and Natarajan, K) Chennai, PP. 319-321.
43. Deka. H.K. Mishra and Sharma G.D. 1989. Seasonal fluctuation in microbial population. Co2 evolution and dehydrogenase activity in jhum fellows. *Jour. Indian Bot. Soc.* 68, 165-170.
44. Deka, H.K. Mishra and Sharma GD. 1990. Effect of fuel burning on VAM fungi and their influence on the growth of early colonizing plant species. *Acta Botanica Indica*.18, 184-189.
45. Dutta, B. and Sharma G.D. 1990. A report of seed root of *Terminalia myriocarpa* by *Graphiuv acruquinosum*. *Acta Botanica Indica*, 18,97-98.
46. Kshatriya, S. Sharma GD. and Mishra R.R. 1990. Nutrient release from the litter and the development of mycorrhizae in more or less disturbed forest communities. In *Current Trends in Mycorrhial research* (Eds. Jalali, B.L. and Chand, H), Hissar, PP. 37-39.
47. Jha, B.N. Sharma G.D. and Mishra R.R. 1990. Effect of soil degradation on soil microbes, symbionts and their activities. In *Current Trends in Mycorrhizal research* (Eds. B.L. Jalali and H. Chand), Hissar, India, PP. 63-65.
48. Jha, B.N. Sharma G.D. and Mishra R.R. 1990. Effect of PH on the growth of ectomycorrhizal fingi in vitro. In: *Current Trends in Mycorrhizal Research* (Eds. Jalali, B.L. and Chand, H), Hissar, india, PP. 66-68.
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