

Dr. Navneet

Name : Dr. Navneet
Sex : Male
Date of Birth : 5th April, 1963
Educational Qualifications : M.Sc., M.Phil., Ph.D.
Designation : Reader
Department : Botany and Microbiology

Existing Membership to Professional Bodies

- Indian Botanical Society
- Indian Society of Plant Pathologists
- The Indian Science Congress Association
- Indian Phytopathological Society
- Indian Mycological Society
- The National Academy of Science, India
- The Indian Potato Association
- Indian Society of Mycology and Plant Pathology
- The International Society of Plant Morphologist

Honours / Awards :

- Qualification National Education Test held by University Grants Commission.
- Fellow of Indian Phytopathological Society
- Fellow of Indian Botanical Society
- Gold Medal in M. Phil theory examination
- Received distinction in M.Phil dissertation work entitled, "Studies on phyllosphere mycoflora of *Cajanus cajan* (L). 1986

Ph.D. Produced:

| Sl. No. | Name | Year | Title of Ph.D. Thesis |
|---------|-------------------|------|--|
| 1. | Neeraj Sharma | 2006 | Bioremediation of Urban Sewage |
| 2. | Prabhat Kr. Singh | 2006 | A study on antimicrobial effect of medicinal plants (Babul, Harad, Apmarg, Kheir, Bakul and Mulathi) against mouth infection. |
| 3 | Shalini | 2008 | A study on antimicrobial effect of Vedic Yagya (Agnihotra) |
| 4. | Deepika Chouhan | 2009 | Studies on Phylloplane microflora of <i>Shorea robusta</i> , <i>Bauhinia vahlii</i> , <i>Tectona grandis</i> , <i>Butaea monosperma</i> and Socio economic importance of these plants. |

Total No. of Ph.D. awarded

2007 - Three as Co-supervisor

No. of candidates registered at present: 5

Book Edited:

1. D.K. Maheswari, R.C.Dubey, G. Prasad and Navneet. Microbes . Agriculture, Industry and Environment. Bisen Singh Mahendra Pal Singh, Dehradun, Uttarakhand .2000.
2. D.C. Shastri and Navneet. Vedic Yajna Therapy
3. Navneet. Pterididophyte, Gymnosperms and Palaeobotany. Faculty of Distance Education, Gurukula Kangri Vishwavidyalaya, Haridwar. 2006.

Community Service

Programme coordinator of National service Scheme since October 1st, 2006.

Research Publications

1. Navneet and R.S. Mehrotra. 1988. Studies on phylloplane microflora of *Cajanus cajan* (L). Millsp. Ad. Plant Sci. 1 (1): 7-14.
2. Bansal, B.K., Navneet and R.S. Mehrotra. 1988. Phyllosphere microflora of wheat in relation to leaf leachates and its resistance to *Helminthosporium* blight. Indian Phytopathology. 41 (3) : 398-405.
3. Bansal, B.K., Navneet and R.S. Mehrotra. 1988. Effect of fungicide cuman on phylloplane microflora of wheat. Geobios New Reports. 7 (1) : 87-89.
4. Bansal, B.K., Navneet and R.S. Mehrotra. 1988. Biocontrol potential of *Helminthosporium* blight of wheat by phylloplane mycoflora. Indian Journal of Plant Pathology. 6 (2) : 115-121.
5. Navneet and R.S. Mehrotra. 1988. Phyllosphere Mycoflora of *Cajanus cajan* (L). Millsp. In relation to *Phytophthora drechsleri* var. *cajani*. Biome. 3 (1) : 14-20.
6. Bansal, B.K., Navneet and R.S. Mehrotra. 1988. Studies on aeromycoflora and phyllosphere mycoflora of wheat. Indian Journal of Mycology and Plant Pathology. 18: 19-24.
7. Bansal, B.K., Navneet and R.S. Mehrotra. 1989. Effect of fungicide benlate on phylloplane microflora of wheat. Indian Botanical Contractor. 6 (2) : 39-42.
8. Ayachi, A.K., D.P. Tewari and Navneet. 1990. Biocontrol of *Phytophthora* leaf rot of *piper betle* by phylloplane mycoflora. Proc. Nat. Acad. Sci., India. 60 (B) II:191-195.
9. Prasad G., K.R.Aneja, Navneet and V. Shanker. 1992. *Fusarium* ovule rot of sago palm (*Cycas revoluta* Thunb.) from Haridwar, India: a new record. Tropical Pest Management (England): 38 (1) : 106.
10. Aggarwal A., O.P. Kakralia, Navneet and R.S. Mehrotra. 1993. Effect of some fungicides on soil dehydrogenase activity. Indian Journal of Microbial Ecology. 3:11-18.
11. Mehrotra, R.S., A. Aggarwal, Navneet, A. Puri and P. Rani. 1995. Chemical control of *Phytophthora* species in India J. Indian Bot. Soc. 74.A:115-126.
12. Navneet, R.S. Mehrotra and A. Aggrawal. 1995. Effect of fungicides Dithane M-45 and Ridomil on the phylloplane microflora of potato. J. Indian bot. Soc. 75 (1-2).
13. Navneet.1995-96. Aeromycoflora over potato fields. Journal of Natural and Physical Science. 9-10: 61-71.
14. Sharma. V.K. and Navneet. 1999. Aeromycoflora of Gurukul Kangri Pharmacy, Haridwar. Journal of Natural and Physical Sciences, 13,133-140.
15. Navneet 2002. A comparison of phyllosphere mycoflora of healthy and diseased leaves of potato. Environment Conservation Journal. 3(3) : 95-97.

16. Navneet, 2002. Antagonistic potential of phylloplane mycoflora of potato against *Phytophthora infestans*. Journal of Indian Botanical Society. 81: 231-233.
17. Navneet, V.K.Sharma, R.Khanna and Prabhat. 2003. Aeromycoflora of Gurukul Kangri and Yogi Pharmacy, Haridwar. Environment Conservation Journal. 4(1-3): 71-78.
18. Prabhat, Navneet and Sri Krishna 2005. Antibacterial activity of Apamarga (*Achyranthes aspera* Linn.). National Academy of Science Letters. 28 (11-12), 379-381.
19. Prabhat, Navneet and Sri Krishna. 2005 Antibacterial activity of *Mimusops elengi* (*Bakul*). Environment Conservation Journal. 3, 59-61.
20. N.Sharma, Minhas, P.S., Joshi, P.K. and Navneet. 2006. Bioremediation using artificial constructed wetland in combination with efficient microbial culture. Environment Conservation Journal. 7 (3) : 37-42.
21. Sagar, P.K., Navneet and Paliwal, R.K.2006. Antibacterial potential of Karanja *Pongamia pinnata* Vent.). Environment Conservation Journal. 7(1-2): 75-77.
22. Navneet and Deepika. 2007. Effect of leaf leachates of potato plants on germination of *Phytophthora infectans* sporangia and zoospores. Environment Conservation Journal. 8 (3): 17- 22.
23. Sanjay, Navneet and M.M. Tiwari. 2007. Antibacterial activity of Nirgundi (*Vitex negundo* Linn.). Environment Conservation Journal. 8(3): 31-33.
24. Amit kumar, Navneet, Sanjay and Parbhat. 2007. Antibacterial activity of *Abutilon indicum* Linn. Environment Conservation Journal. 8(3): 111-115.
25. Prabhat, Navneet and Shri Krishna. 2008. Antibacterial activity of harad (*Terminalia chebula*). J. Indian Bot. Soc. 87:297-299.
26. Praphat, Navneet, Pramod and Chhaya 2008. *In vitro* antibacterial activity of Sahdevi (*Vernonia cineria* Less). Environment Conservation Journal 9: 139- 143.
27. Sanjeev, Kumresh, A. Chauhan, Navneet and Prabhat 2008. Antibacterial and phytochemical analysis of *Sida acuta* Burm F. Flora and Fauna. 14: 229- 232.
28. Kumresh, Sanjeev, Navneet and Prabhat 2008. *In vitro*: antibacterial activity of *Salsola kali* Linn. Environment Conservation Journal 9: 69- 72.
29. Navneet and K. Kaur. 2009. Study on fungal infestation on oyster mushroom (*Pleurotus sarju-caju*) in the adjoining areas of Chandigarh. J. Env. Bio- sci. 23(2): 233-238.
30. Prabhat, Navneet, Sanjeev and Pramod. 2009. *Nyctanthes arbor-tristis* Linn. (Harsinghar): A potential medicine. Environment Conservation Journal. 10(1&2): 141-143.
31. Vermani, A., Navneet and Prabhat. 2009. Screening of *Quercus infectoria* gall extracts as antibacterial agents against dental pathogens. Indian J. Dent. Res. 20 (3): 337-339.
32. Vermani, A., Navneet and Prabhat. 2009. Antibacterial activity of *Butea monosperma* (Lam.) Taub. against dental pathogens. Flora and Fauna. 15 (1): 12-14.
33. Prabhat, Navneet, Archa and Sanjeev. 2009. Analysis of minerals in some traditional medicinal plants. Flora and Fauna. 15 (2): 200-202.
34. Shivani, Navneet and Pandey, A. 2009. *In-vitro* antibacterial effect of medicinal plants against *Neisseria gonorrhoeae*. Environmental Conservation Journal. 10(3): 97-100.

Chapter in book

1. Mehrotra, R.S., A. Aggarwal, G. Kaur and Navneet. 1988. An outlook on certain *Phytophthora* species in India. In Advances in Mycology. Ed. G.S. Rawala, pp.183-187. Botany Department, Punjab University, Chandigarh.
2. Mehrotra, R.S. and Navneet. 1990. Systemic fungicides in the control of *Phytophthora* diseases in India. In Plant Pathological Research: Problems and Progress. Eds. M.P. Srivastava and G.S. Saharan. pp. 8-13. Indian Phytopathological Society (NZ). H.A.U. Hissar.

3. Mehrotra, R.S., Navneet, S. Khanna and N. Rashmi. 1991. Fungicides in control of *Phytophthora* diseases in India. In Botanical Researches in India. Eds. N.C. Aery and B.L. Chaudhary. pp. 433-440, Himanshu Publication, Udaipur.
4. Mehrotra, R.S., Rashmi, N. and Navneet. 1992. Seed mycoflora of oil seed crops with special reference to mycotoxin production. In Current Concepts in Seed Biology. Eds. K.G. Mukerji, A.K. Bhatnagar, S.C. Tripathi, M. Bansal and M. Saxena. pp 177-199. Naya Prakash, Calcutta.
5. Mehrotra, R.S. and Navneet. 1993. *Phytophthora* Taxonomy. A Recent Approach. In Fungal Ecology and Biotechnology. Eds. N.K. Dubey, B. Rai, D.K. Arora and P.D. Nariana. pp 129-135. Rastogi Publications, Meerut, India.
6. Mehrotra, R.S., Navneet and S. Khanna. 1994. Plant disease forecasting with special reference to late blight epidemics and its control. In Crop Epidemics, Microbes and Ecosystem Conservaton. Eds. G.P. Aggarwal and S.K. Hasija.. pp. 17-22. Narendra Publications House, Delhi, India.
7. Mehrotra, R.S., A Puri and Navneet. 1994. *Phytophthora* in India. An Overview. In Current Researches in Plant Science. Vol. I. Eds. T.A. Sarma, S.S. Saini, M.L. Trivedi and M. Sharma. pp. 25-32. Bishen Singh Mahendra Pal Singh, Dehradun, India.
8. Navneet, V.S. Pundir and S. Malhotra. 1999. Microflora of Ayurvedic drugs. In Sustainable Ecosystem and Environment Eds. D.R. Khanna, A. Gautam and A. Gautam pp.91-98. Century Offset Printers. Rishikesh.
9. Navneet and A. Sharma. 2000. Role of Dhataki (*Woodfordia fruticosa* Kurz.) flowers in the fermentative process of Aswagandharishta. In Microbes : Agriculture, Industry and Environment. Eds. D.K. Maheshwari, R.C. Dubey, G. Prasad and Navneet. pp 29-35. Bishan Singh Mahendra Pal Singh, Dehradun., India.
10. Navneet and Reeta. 2002. Medicinal plants of Atharvaveda. In Science in Ancient India Eds. R. M. P. Jaiswal, pp. 56-60.
11. Navneet and Prabhat. 2004. Vedic Yajna: A solution for present day problems. Applied Botany (Current Trends in Plant Sciences). Ed. P. C. Trivedi. Aavishkar Publishers, Distributors, Jaipur, pp. 236-256.
12. Prabhat and Navneet, 2007. Antibacterial activity of medicinal plants against dental infections. Ed. A.K. Chopra, D.R. Khanna, G. Prasad, D.S. Malik, R. Bhotiani, Medicinal Plants: Conservation Cultivation and Utilization, Daya Publishing House Delhi, 139-146.
13. Deepika C. Navneet and Prabhat 2007. Medicinal plants of Rigveda. Ed. A.K. Chopra, D.R. Khanna, G Prasad, D.S. Malik, R. Bhotiani, Medicinal Plants: Conservation Cultivation and Utilization, Daya Publishing House Delhi, 281-298.
14. Sanjay, Navneet, Murli Manohar and Prabhat 2007. Antimicrobial properties of herbal tooth powders. Ed. A.K. Chopra, D.R. Khanna, G Prasad, D.S. Malik, R. Bhotiani, Medicinal Plants: Conservation Cultivation and Utilization. Daya Publishing House Delhi 303-318.
15. Navneet, Sanjay, Prabhat and Tiwari, M.M. 2007. The antibacterial properties of herbal tooth powders. In. Biodiversity for Sustainable Development. Ed. P.C. Trivedi. pp. 216-214. Aavishkar Publishers, Distributors, Jaipur.
16. Shri Krishna, Amit Kumar and Navneet. 2007. Physicochemical screening of *Abutilon indicum* roots. In Medicial Plants: Conservation, Cultivation and Utilization. Eds. A.K. Chopra, D.R. Khanna, G. Prasad, D.S. Malik and R. Bhutiani. Daya Publishing House, New Delhi. pp. 269-272.
17. Deepika and Navneet 2008. The use of plants (Sal, Maljhan, Sagon, Dhak) in the preparation of dona and pattals Eds. D.R. Khanna, A.K. Chopra, G. Prasad, D.S. Malik and R. Bhutiani, pp. 145- 152. Daya Publishing House, Delhi.

18. Navneet and Archa 2008. Detection of elements in *Butea monosperma*, *Cassia fistula*, *Tinospora cordifolia*, *Quercus infectoria* and *Cedrella toona* in Phytochemicals: A Therapeutant for Critical Disease Management. Eds. D.R. Khanna, A.K Chopra, G. Prasad, D.S Malik and R. Bhutiani. pp. 217- 220. Daya Publishing House, Delhi.
19. Prabhat, Navneet, Sanjay and P. Kumar. 2008. Chemical analysis of inorganic elements in bacterial medicinal plants. In Phytochemicals: A therapeutant for Critical Disease Management. Eds. D.R. Khanna, A.K Chopra, G. Prasad, D.S Malik and R. Bhutiani. pp. 273- 276. Daya Publishing House, Delhi.
20. Navneet, Shivani and S. Sharma 2008. Potential of herbs against vaginal infection. In Indian Medicinal Plants. Ed. P.C. Trivedi. pp. 225- 248. Aavishkar Publishers, Distributors, Jaipur, India.

Books and Research Reports/ Proceedings Published

| Title of books/ proceedings and research reports etc. | Author/Co-Author/ Editor | Year | Name of publishers |
|---|---------------------------------|-------------|---|
| 1. Microbes: Agriculture Industry and Environment | Editor | 2000 | Bishen Singh Mahendra Pal Singh |
| 2. Pteridophyte, Gymnosperms and Paleobotany | Author | 2006 | Faculty of Distance Education, Gurukul Kangri Vishwavidyalaya, Haridwar |
| 3. Vedic Yajna Therapy | Author | 2007 | Satyam Publishing House, New Delhi |
| 4. History of twenty five years of National Service Scheme in Gurukula Kangri Vishwavidyalaya, Haridwar | Author | 2008 | Swami Shradhanand Prakasan , Hardwar |
| 5. Contributions of Gurukula Kangri Vishwavidyalaya in the Service of Nation | Author | 2008 | Swami Shradhanand Prakasan , Hardwar |
| 6. Blood Group Directory of Gurukul Kangri Vishwavidyalaya Students | Author | 2009 | Swami Shradhanand Prakasan , Hardwar |
| 7. Blood Donation Guide | Author | 2009 | Swami Shradhanand Prakasan , Hardwar |
| 8. National Service Scheme "B" Certificate Guide | Author | 2010 | Swami Shradhanand Prakasan , Hardwar |

List of Conferences / Seminars / Workshops/ Symposia attended

| Name of the seminars/ conferences | Date and place | Title of paper/ special contribution (if any) |
|--|--|--|
| 1. Biomedical Workshop on Electron Microscopy | 25-29 October, 1986 R.S.I.C.; Punjab University, Chandigarh | At Trainees |
| 2. National symposium on Advances in Mycology (Basic & Applied) | 16-18 February, 1987 Botany Department, Punjab University, Chandigarh | An outlook on certain <i>Phytophthora de bary</i> species in India |
| 3. Post Graduate course on Research Methodology in Potato | 1-31 July 1987 C.P.R.I., Shimla | As Trainees |
| 4. 75 th Indian Science Congress | 7-12 January 1988, Pune | A Quantitative & Qualitative analysis of phyllosphere microflora of two cultivars of <i>Cajanus cajan</i> (L.) Millsp. |
| 5. Workshop on Application of Science and technology for Rural Development | 15-16 October 1988 Centre for Adult Continuing Education & Extension, K.U. Kurukshetra | As Trainees |
| 6. National symposium on Plant Science Research in India, Present Status and Future Challenges | 28-30 August, 1989, Department of Botany, Punjabi University, Patiala | As participant |
| 7. Symposium on New Spheres of Botanical Researches and Society | 26-28 December 1990 Department of Botany, B.H.U., Varanasi | <i>Phytophthora</i> taxonomy A Recent Approach |
| 8. Symposium on Pathological Problems of Economic Crop Plants & their management | 29-30 April, 1991 C.P.R.I., Shimla | Management of Post-harvest diseases in India |
| 9. National Seminar on Biotechnology: New Trends and Prospects | 26-28, December, 1996 Department of Botany G.K. University, Hardwar | As Participant. |
| 10. Workshop on Population and development | 29 August 1997 Department of Biological Sciences R.D. University, Jabalpur | As participant |
| 11. National conference on sustainable ecosystem and environment | 2-3 November 1998 Department of Zoology, G.K. University, Hardwar | Microflora of Ayurvedic Drugs |
| 12. National Conference on Status of Indian Environment | 27-28 May, 2001 Department of Zoology and Environmental Science, GKV, Hardwar | Chairperson of the Technical Session |
| 13. 91 st session of Indian Science Association | 3-7 January, 2004 at Panjab University, Chandigarh | As participant |

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| 14. International Vedic Conference on Contribution of the Vedas to the world | 27-30 January, 2005 | As participant |
| 15. State level Workshop on Disaster Management | 8-9 March, 2006 Dehradun | As a Participant |
| 16. National Conference on New vistas in microbiology and plant science | 19-20 September, 2006 at Kanya Gurukul Mahavidyalaya, Hardwar | As participant |
| 17. National Seminar on Medicinal plants: Conservation, Cultivation and Utilization II, | 9-11 March, 2007 at Department of Zoology and Environmental Science, Gurukul Kangri Vishwavidyalaya, Hardwar | As participant |
| 18. Workshop on water conservation and management | 23 October, 2007 Dev Sanskriti Vishwavidyalaya, Hardwar | As participant |
| 19. State Science festival | 01- -5 November, 2007 State Girls Inter College, Hardwar | As Judge |
| 20. A programme on development of multimedia Learning Materials | 26- 29 May, 2008 Gurukul Kangri Vishwavidyalaya, Haridwar | As participant |
| 21. State level workshop on Formation of Red Ribbon Clubs | 26 September, 2008 Dehradun, Uttarakhand | As participant |
| 22. National Seminar on Status of Bio-diversity among the Mountainous states of India | 15-16 March, 2008 at Department of Zoology and Environment Science, Gurukul Kangri Vishwavidyalaya, Hardwar | As participant |
| 23. Workshop on social communication campaign for prohibition of pre-natal determination of sex of foetus | 17 may, 2008 Gurukul Sanskrit Vishwavidyalaya, Hardwar | As participant |
| 24. State level training workshop for Drinking Water Parameters Under Networking for Wash Campaign | 7 October, 2008. Dehradun, Uttarakhand | As participant |
| 25. Common Wealth Asia Regional Workshop on the Role of Youth in Mitigating the Impact of Climate Change for Sustainable Livelihood | 13-18 October, 2008 in Dehradun, Uttarakhand, India | As Participant |

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| 26. State level workshop for NSS officers on “ Formation of Red Ribbon Clubs” | 26 October, 2008 in Dehradun, Uttarakhand, India | As Participant |
| 27. State level Seminar on Human Rights and Social Harmony | 30-31 December, 2008 at St. John’s College, Agra | As Participant |
| 28. National Seminar in Status of Biodiversity and Conservation | 27-28 February, 2009 at Department of Zoology and Environment Science, GurukulKangri Vishwavidyalaya, Hardwar | As Participant |
| 29. Master Trainers Workshop on “Pre-natal Determination of sex and female foeticide | 16 March, 2009, Dehradun | As Participant |
| 30. State level seminar on “International Anti Drud Abuse day” | 26 June, 2009, Dehradun | As Participant |
| 31. State level refresher workshop of Co-ordinators of Red Ribbon Clabs | 18 August, 2009, Dehradun | As Participant |
| 32. Training Workshop of National Service Scheme Programme officers | 20 August, 2009, Gurukul Kangri Vishwavidyalaya, Hardwar | As Participant |
| 33. State Disaster Respanse Team Training | 17-21 November, 2009, Indian Red Cross Society at Dehradun | As Participant |
| 34. Red Ribbon Club Training Workshop | 28 th - 30 th January, 2010, Rishikesh | As Participant |

Research Projects (completed/in progress)

| Title of research | Funding agency | Period duration (years) | Year of completion/ to be completed | Whether PI or Co-PI |
|--|-----------------------------|-------------------------|-------------------------------------|---------------------|
| Biopesticidal control of certain tropical diseases associated with oil seed crops. | C.S.I.R. | 3 | 1995-1998 | Co-PI |
| Yajna Samagri – Formulation, Characteristics and its antimicrobial effects | UGC, Minor Research Project | 2 | 2003-2005 | Co-PI |

