

## Bio-data of Dr. Amar P. Garg

1. Name in full : AMAR P. GARG
2. Father's name : (Late) Shri Mitthan Lal Garg
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Mobile: 9410608377;
6. Date of birth : June 12, 1954
7. Nationality : Indian
8. Marital Status & Sex : Married; Male; have two sons
9. ACADMIC ACHIEVEMENTS :

### Academic record

| Name of Exam | : Year | : Div.     | / %  | : Board / Univ.    | : Subject group             | : Distinction |
|--------------|--------|------------|------|--------------------|-----------------------------|---------------|
| High school  | 1969   | First      | 65.6 | U.P. Board, India  | Science, Maths              | Maths & Art   |
| Intermediate | 1971   | First      | 61.8 | U.P. Board, India  | Biology Group               |               |
| B. Sc.       | 1973   | First      | 61.5 | Meerut Univ. -do-  | Biology group               |               |
| M. Sc.       | 1975   | First      | 65.2 | Meerut Univ. -do-  | Botany                      |               |
| Ph. D.       | 1981   | successful |      | Meerut Univ. -do-  | Botany (Microbiology topic) |               |
| LL.B.        | 2013   | First      | 61.0 | C.C.S. Univ. India | Law                         |               |

### Post-doctoral Fellowships Abroad:

| Name of Fellowship                     | : Duration, | Session | : Univ./Institute              | : Subject                 |
|--|-------------|---------|--------------------------------|---------------------------|
| Commonwealth Academic Staff Fellowship | 10 month,   | 1982-83 | Aston Univ.,<br>Birmingham, UK | Mycol. & Microbiol.       |
| DAAD Fellowship                        | 30 month,   | 1986-89 | Freiburg Univ.<br>Germany      | Mycol. & Microbiol.       |
| Special DAAD                           | 3 month,    | 1990-91 | Freiburg Univ.                 | Mycol.& Microbiol.        |
| CAS Fellowship                         | 12 month,   | 1993-94 | Liverpool Univ.                | Microbiol. & Biotech.     |
| DAAD Fellowship                        | 1 month,    | 1996    | Heidelberg Univ.               | Microbiology              |
| DAAD Fellowship                        | 3 month,    | 1997    | Heidelberg Univ.               | Microbiol. & Bioinformat. |

- (C) Languages known : Hindi, English & German
- (D) Permanent post held : Professor of Microbiology (since 27-09-1998-continued).  
C.C.S. University, Meerut
- (E) Previous employments :  
Lecturer in Botany (14-08-1976 to 30-08-1985), I. P. College, Bulandshahr, Lecturer in Botany, Meerut University, (31-08-1985 to 22-04-1990); Reader in Botany, Meerut University, Meerut (23-04-1990 to 27-09-1998)
- (F) Main and Allied Subject : Botany and Agricultural Botany
- (G) Research Specialization : Microbiology/Biofertilizers/Plant Protection/Boiotech.
- (H) Assistance to University Administration:  
Acted as Secretary Grants Cell to monitor the effective utilization of various grants; their receipts and effective management; University Representative in 8<sup>th</sup> five year plan grants from UGC; In-charge for submitting proposals to the State Government; Coordinator UGC IX Five year Plan grant; Coordinator NAAC; Coordinator University Academic Audit Committee; Coordinator for preparation of University Annual Report; Coordinator / Member of High Power Committee for various Entrance Tests of the University (1998-2002); Dean, Faculty of Engineering & Technology (2002 and 2006); Academic Advisor to the University for implementation of UGC policy for Vocationalization of first degree education; Chief of University Employment Bureau; Assisted the University in declaration of results; Coordinator of several Entrance Tests (2006) of the University; Coordinator for conduct of University Examinations (2006); Chief-Proctor (2006); Member for submission of proposal for various Grants from various sources; Member of Academic Council; University Court and Executive Council of the University; Assisted University in various academic and administrative matters.
- (I) M. Phil. Projects Supervised : More than 75 M. Phil. projects supervised.
- (J) Ph.D. Thesis Supervised : 27 awarded; five under final stage of submission; three thesis supervised for DM (2 in Dermatology and 1 in Medicine) in collaboration with L.L.R.M. Med. Col., Meerut;
- (K) Research Publications : 107 full research papers published in National & International journals of high repute; 2 Books; 75 presentations in International Conf. & 80 presentations in National Conferences
- (L) Fellowships of societies : F.B.S., F.P.S.I., F.S.M.P., M.N.A.Sc.; F.N.R.S.
- (M) Membership of Societies :  
British Mycological Society, German language Speaking Mycological Society of Germany, British Society for Plant Pathology, International Society for Human and Animal Mycology, Society for General Microbiology UK, Indian Botanical Society , Indian Phytopathological Society , Society for Advancement of Botany, Indian Academy of Science, Indian Science Congress Association, Mycological Society of India, Society for Mycology and plant Pathology, Association of Microbiologists of India , National Academy of Science, Society of Environmentalist; International Society for Conservation of Natural Resources; Indian Society for Animal and Human Mycology.
- (N) Distinctive Awards :  
Dr. Y. S. Murty Gold Medal of the Indian Botanical Society for the year 1993; Professor Hira Lal Chakravarty Award of the Indian Science Congress Association for the year 1994-95; Poster Prize in 1998 for presentation of Poster in Deutschsprachige Mykologische Gesellschaft e.V., Frankfurt (Germany)

(O) National Conference attended : Participated in more than 50 and chaired different sessions in ISCA; Indian Botanical Society and International Society for Conservation of Natural Resources

(P) Official Positions held in Academic Societies:

Represented INDIA on behalf of INSA as delegate in the General Assembly of 7th IUMS Congress held in Prague (Czech Republic) in July 1994; Zonal Representative in Botany in the Indian Science Congress Association for the year 1995; Associate Editor for the Journal of the Indian Botanical Society from 1995 onwards; Member of International Advisory Committee of 8<sup>th</sup> IUMS Congress held in Jerusalem (Israel) in 1996; Zonal Representative in Botany in the Indian Science Congress Association for the 1999-2000; Vice-President of the Indian Botanical Society for the year 2001; Chief Editor-Environmental Biology & Conservation; Coordinator (Applied Microbiology); Coordinator (Bioinformatics); Coordinator (Medical Microbiology); UGC nominee to Osmania University and Saugar University for evaluation of special projects;

(Q) International Conferences attended:

XIII International Botanical Congress Sydney (Australia) 1981; IX European Mycological Congress, Oslo (Norway), 1985; XIV Intl. Congress of Microbiology, Manchester (UK), 1986; XIV Intl. Botanical Congress, Berlin West (FRG), 1987; VII Intl. Biodeterioration Symposium, Cambridge (U.K.), 1987; 21st Ann Sess of German Mycological Society, Muenster (FRG), 1987; 22nd Ann. Sess. of German Mycological Society, Baden bei wien (Austria), 1988; 25th Ann Sess. of British Mycopathological Society, Oxford (U.K.), 1989; Fourth Intl. Mycological Congress, Regensburg (FRG), 1990; International Congress Bacteriology & Mycology, Osaka, 1990; VI Intl. Symposium on Microbial Ecology, Barcelona (Spain), 1992; 123rd meeting of the Soc. for General Microbiology, Univ of Warwick (U.K.), Jan. 1994; 124th meeting of SGM, Univ. of Cambridge (U.K.), March, 1994; 7th IUMS Congress in Prague (Czech Republic), July, 1994 (acted as INSA delegate in GA); Participated in 8th IUMS Cong in Jerusalem in Aug. 1996; 13th ISHAM Congress, Salsomaggerio (Italy) in June, 1997; 14<sup>th</sup> ISHAM Congress, Buenos - Aires (Argentina), May, 2000; 16<sup>th</sup> ISHAM Congress, Paris (France), June, 2006.

(R) Research projects : Three minor + two major projects;

(S) Other Fellowships :

Junior Merit Scholarship 1964-69; Junior Research Fellowship of UGC & CSIR, 1976; Teacher Research Fellowship, 1980; National Associate ship of UGC for five years (1984-89), but availed only once at the University of Delhi in 1984.

(T) International Radio Broadcast :

BBC, London broadcasted my research contribution thrice (1983, 1987, 1989) in their programme on Science & Industry.

(U) News papers / special research report :

Interview broadcasted on BBC, London was published in a news papers, paper presented in IBS at Lucknow and ISCA at Vadodra in 1991-92 published in news papers; paper presented in NAS at Meerut in 1991 also published in news paper; paper presented in Australia was published as high lights of the conference in Med-report (Berlin). Medal Address delivered in Jabalpur in 1993 published in several news papers. Rotary Club, Meerut invited for special public lecture which was the published in new papers; Research contributions published in Hindustan Times dated 31-05-1995 under column "Health". Several reports in various news papers through UNI, still present on Internet showing wide publicity; TV-broadcast.

(V) International funding and other Scientific Support :

GTZ, Germany funded my laboratories with grant of DM 42,000 for modern and sophisticated equipments; DAAD, Bonn also provides me literature on regular basis. Institute of Medical Microbiology, Freiburg gifted me several equipments to pursue my research in India. Professor G.J.F. Pugh, Birmingham (U.K.) on his retirement gifted me several books and research journals for teaching and research; DAAD gifted 47 books worth for about Rs. 2.0 lakhs in June, 2000; Professor P.D. Sharma from University of Delhi has gifted his all academic collections to the Department; Professor H.C. Gugnani from Patel Chest Institute, University of Delhi has gifted his most valuable microbial culture collection to the Department; Scientific support from various National and International Institutes in the form of M.o.U. for providing all academic support for training of students and staff members.

(W) Major research areas of interest :

Microbiology of phylloplane and leaf-litter of tropical plant species, Biocontrol of plant diseases, Bioconversion of lignocellulosic crop residues and wastes, Ecology, physiology and immunology of human pathogens, Fungitoxicity of fatty acids, oils & other cosmetics, immunoelectron microscopy; Biobleach process for pulp and paper industry to reduce industrial pollution. PCR for diagnosis of fungal infections in humans; Microbial diversity in soil, air and water.

(X) Important research contributions :

Emphasis on health of tissues during micro fungal ecological studies on plant surfaces; Improved technique to incorporate fatty acids / oils into media, Fungi toxicity spectrum of fatty acids & hair oils and rarity of hair fungal infections in India; New technique for quantitative isolations of micro fungi; New semi-solid culture medium for full harvest of fungal colonies grown under semi solid conditions; New technique for characterization of protein antigens in immunoblotting; immunoperoxidase staining technique for characterization of antigenicity by light microscopy; New technique for the production of macroconidia in *Microsporium gypseum*; Amido black staining technique for studying the fungi *in situ* in agar medium; Selective technique for isolation of three species of *Chrysosporium* from soil; Biobleaching process to reduce the consumption of chlorine in chemical bleaching of pulp; Optimization of cellulase production and saccharification of lignocellulosic materials by *Gliocladium virens* and *Trichoderma reesei* QM 9414 mutant; Development of highly sensitive fungal primers for the diagnosis of *Aspergillus* and *Candida* infections in humans using PCR technique; First report on contamination of fungal DNA in zymolyase used in PCR; A better technique for the release of DNA from fungal cells; Role of anti-oxidants in ageing; A rapid diagnostic cultural method for *Candida albicans*; A new software developed for "Multiple sources of Baker's Yeast", available on website : [www.ccsumicrobiol.org](http://www.ccsumicrobiol.org)

(Y) Future research planning :

Bioconversion of agricultural crop residues; immunological studies on human pathogens and development of clinical tests including PCR for fungal, bacterial and viral diseases in human; Application of xylanases, ligninases and mannanases in pulp and paper industry; anti-oxidants; Herbal drugs; Ethanol production from agro-wastes; Biofertilizers for organic agriculture; Development of relevant software for wider applications in Bioinformatics.

(Z) Organization of Seminar/Conference:

Organized "All India 23<sup>rd</sup> Botanical Conference" from October 14-16, 2000; Organized "National Symposium on Microbes & Human Welfare" from October 14-16, 2000; Besides above, also organized several one day Workshops and two 6-week courses sponsored by the DAAD, Bonn and the University of Heidelberg (Germany).

Dated: 23-01-2016

(Amar P. Garg)

## LIST OF RESEARCH PUBLICATIONS OF PROF. A.P. GARG

(Full research papers published in refereed Journals of National and International repute)

1. Garg, A.P.; Sainger, D.K. & Sharma, P.D. (1978). Phylloplane microfungi of barley, triticale and eggplant. *Acta Bot. Indica* **6** (suppl.) : 32-40.
2. Sainger, D.K.; Garg, A.P. & Sharma, P.D. (1978). Mycoflora of some pollen grains. *Acta Bot. Indica* **6** (suppl.) : 165-168.
3. Sharma, P.D.; Sainger, D.K. & Garg, A.P. (1979). A brachy-Puccinia on *Cnicus arvensis*. *Indian Phytopath.* **32** : 150.
4. Sharma, P.D. & Garg, A.P. (1979). Phylloplane mycoflora of non-infected and powdery-mildew infected barley. *Acta Bot. Indica* **7** : 64-71.
5. Garg, A.P. & Sharma, P.D. (1980). Phylloplane mycoflora of rust-infected and non-infected barley and triticale. *Acta Bot. Indica* **8** : 57-60.
6. Garg, A.P. & Sharma, P.D. (1982). Effect of pollen on the phylloplane mycoflora of triticale. *Acta Bot. Indica* **11** : 25-27.
7. Garg, A.P. & Sharma, P.D. (1983). Studies on phylloplane fungi of triticale and guar. *Indian Phytopath.* **36** : 567-571.
8. Garg, A.P. & Sharma, P.D. (1983). Mycoflora of rust-infected and non-infected leaves of triticale. *Indian Phytopath.* **36** : 572-576.
9. Garg, A.P. & Sharma, P.D. (1984). Ecology of phylloplane and litter fungi of triticale. *Nordic J. Bot.* **4** : 707-715.
10. Garg, A.P.; Smith, S.N. & Pugh, G.J.F. (1984). An improved technique to incorporate oils and fats into culture media. *Trans. Br. mycol. Soc.* **83** : 356-358.
11. Garg, A.P. & Sharma, P.D. (1985). Ecology of phylloplane and leaf-litter fungi of *Cyamopsis tetragonoloba* (L.) Taub. *Rev. Ecol. Biol. Sol.* **22** : 35-55.
12. Garg, A.P.; Gandotra, Sudha; Mukerji, K.G. & Pugh, G.J.F. (1985). Ecology of keratinophilic fungi. *Proc. Indian Acad. Sci. (Plant Sci.)* **94** : 149-163.
13. Garg, A.P.; Smith, S.N. & Pugh, G.J.F. (1985). Inhibition of growth of keratinophilic fungi by oils and fatty acids. *Trans. Br. mycol. Soc.* **85** : 367-370.
14. Garg, A.P. & Sharma, P.D. (1985). Phylloplane mycoflora of healthy and white blister-infected mustard. *Indian Phytopath.* **38** : 327-329.
15. Pugh, G.J.F.; Garg, A.P. & Smith, S.N. (1986). Inhibition of keratinophilic fungus *Chrysosporium keratinophilum*. *Biodeterioration VI (Proc. of the VI Intl. Biodeterioration Conf., Washington DC, USA)* C.A.B. International. p. 142-147.
16. Garg, A.P. & Bhatnagar, Babita (1989). A better technique for quantitative isolations of microfungi during biodegradation of agricultural wastes. *Intl. J. Biodeter.* **25** : 57-64.
17. Garg, A.P. (1989). A simple technique for selective production of macroconidia in *Microsporium gypseum* (Bodin) Guiart and Grigorakis. *J. Indian bot. Soc.* **68** : 431.
18. Bhatnagar, Babita & Garg, A.P. (1990). Qualitative and quantitative analysis of microfungi colonising leaf-litter of *Oryza sativa* L. *J. Indian bot. Soc.* **69** : 89-92.

19. Garg, A.P. (1990). Effect of urea on leaf-litter mycoflora of triticale and guar. *J. Indian bot. Soc.* **69** : 89-92.
20. Garg, A.P. & Bhatnagar, Babita (1991). Standardization of a modified serial washings technique for quantitative isolations of phylloplane microfungi. *J. Indian bot. Soc.* **70** : 207-211.
21. Garg, A.P. (1991). Antifungal activity of long chain saturated fatty acids. *J. Indian bot. Soc.* **70** : 143-146.
22. Garg, A.P. (1991). Napthalene black staining technique for studying the fungi *in situ* on agar media. *J. Indian bot Soc.* **70** : 411-412.
23. Gupta, Rashmi & Garg, A.P. (1991). Isolation of keratinophilic fungi from Meerut with particular reference to soil pH. *Acta Bot. Indica* **19** : 283-285.
24. Garg, A.P. (1992). A selective technique for isolation of three species of *Chrysosporium* from soils. *mycoses* **35** : 95-97.
25. Garg, A.P. & Müller, J. (1992). Preparation of antigens from *Trichophyton mentagrophytes* by using a new semi-solid culture medium and their characterization by SDS-PAGE and immunological techniques. *mycoses* **35** : 349-355.
26. Garg, A.P. & Müller, J. (1992). Inhibition of growth of dermatophytes by Indian hair oils. *Mycoses* **35** : 363-369.
27. Garg, A.P. (1992). Indian hair oils and protection of human hair against fungal infections. *J. Indian bot. Soc.* **71** : 251-275.
28. Garg, A.P. & Müller, J. (1993). Fungitoxicity of fatty acids against dermatophytes. *mycoses* **36** : 51-63.
29. Garg, A.P. (1994). Microfungal colonisation of phylloplane and leaf-litter fungi of *Hordeum vulgare* L. *J. Indian bot. Soc.* **73** : 299-306.
30. Garg, A.P. (1995). Geographic distribution and nature of geophilic keratinophilic fungi. *J. Indian bot.Soc.* **74 (A)** : 75-88.
31. Garg, A.P. & Sharma, T.K. (1995). Pulp and paper industry : problems and remedies. *J. Indian bot.Soc.* **74 (A)** : 481-488.
32. Singh, Jagpal & Garg, A.P. (1995). Production of cellulases by *Gliocladium virens* Miller *et al.* on *Eichhornia* under solid-state- fermentation conditions. *J. Indian bot. Soc.* **75** : 305-309.
33. Pandey, Sunil & Garg, A.P. (1995). Assessment of decomposition potential of some dominant fungi isolated from barley. *J. Indian bot. Soc.* **75** : 345-346.
34. Minakshi & Garg, A.P. (1995). Effects of heavy metals on the growth of human pathogenic fungi. *J. Indian bot. Soc.* **75** : 111-116.
35. Garg, A.P.; McCarthy, A.J. & Roberts, J.C. (1996). Biobleaching effect of *Streptomyces thermoviolaceus* xylanases preparations on birchwood Kraft pulp. *Enz. Microb. Technol.* **18** : 261-267.
36. Singh, Jagpal & Garg, A.P. (1996). Bioconversion of *Eichhornia* leaf-litter using *Gliocladium virens*. *Acta Bot. Indica* **24** : 67-71.
37. Singh, Sujit & Garg, A.P. (1996). Bioconversion of pea crop residues using *Gliocladium virens* Miller *et al.* *J. Indian bot. Soc.* **75** : 245-250.
38. Chaturvedi, Kumkum; Chaturvedi, S.N. & Garg, A.P. (1996). Effect of physical irradiations and chemical treatments on fungal growth and detoxification of aflatoxins contaminated areca nuts. *J. Indian bot. Soc.* **75** : 33-36.
39. Pandey, Sunil & Garg, A.P. (1997). Optimization of process for the production of cellulases by *Gliocladium virens* Miller *et al.* and *Trichoderma reesei* QM 9414 under solid state fermentation conditions and their application in the saccharification of barley. *J. Indian bot. Soc.* **76** : 115-121.

40. Chaturvedi, Kumkum; Chaturvedi, S.N. & Garg, A.P. (1997). Effect of aflatoxin contamination on carbohydrates and protein content of areca nuts and its preparations. *Acta Bot. Indica* **25** : 217-218.
41. Nafees, Ghazala & Garg, A.P. (1997). Production of cellulase free xylanases on wheat bran with their potential application in pulp and paper industry. *J. Indian bot. Soc.* **76** : 235-239.
42. Garg, A.P.; Roberts, J.C. & McCarthy, A.J. (1998). Bleach boosting effect of cellulase free xylanase of *Streptomyces thermoviolaceus* and its comparison with two commercial enzyme preparations on birchwood Kraft pulp. *Enz. Microb. Technol.* **22** : 594-598.
43. Kumar, Mahesh & Garg, A.P. (1998). Quantitative analysis of protein and leghaemoglobin content in the roots and nodules (root and stem) of *Sesbania sesban* (Linn.) Merrill. *Ann. Biol.* **14** :123-124.
44. Kumar, Mahesh, Garg, A.P. & Saini, P.S. (1998). Influence of sowing dates on growth and nodulation (stem and root) of *Sesbania* varieties. *Ann. Agri-Bio Research* **3** : 9-13.
45. Kumar, Mahesh, Garg, A.P. & Singh, Shashi (1998). Quantitative analysis of proteins in the roots and nodules (root and stem) of *Sesbania sesban* (Linn.) Merrill. on SDS-PAGE. *Forage Res.*
46. Banerjee, M.K.; Chhabra, M.L.; Garg, A.P. & Kallo, G. (1997). *In vitro* screening of tomato genotypes against *Alternaria solani* : A new technique. *Veg. Sci.* **24** : 55-57.
47. Banerjee, M.K., Chhabra, M.L., Garg, A.P. & Saini, P.S. (1998). Screening of tomato genotypes against *Alternaria* blight under field conditions. *Ann. Agri-Bio Research* **3** : 109-113.
48. Rimek, Dagmar; Garg, A.P.; Kappe, R. and Sonntag, H.-G. (1998) Pilz-Nukleinsäure-Nachweis beim invasiven Aspergillösen. *mycoses (Suppl. 2)* **41** : 65-68.
49. Rimek, D.; Garg, A.P. & Kappe, R. (1999). Zymolyase contains fungal DNA. *J. Clin. Microbiol.* **37** (3) : 830-831.
50. Pandey, S; Garg, A. P. & Singh, J. (1998) Bioconversion of barley (*Hordeum vulgare*) and rice (*Oryza sativa*) by *Gliocladium virens* Miller *et al.* And *Trichoderma reesei* QM 9414 under solid-state-fermentation conditions. *J. Indian Bot. Soc.* **77** : 205-212.
51. Chhabra, M.L.; Garg, A.P.; Banerjee, M.K. and Gandhi, S.K. (1999). Influence of *Alternaria* blight on vitamin 'C' content of tomato plants. *Indian Soc. Pl. Pathol.*
52. Chhabra, M.L.; Garg, A.P.; Banerjee, M.K. and Gandhi, S.K. (1999). Growth parameters of *Lycopersicon* genotypes in susceptibility to early blight. *Ann. Biol.*
53. Chhabra, M.L.; Garg, A.P.; Banerjee, M.K. and Gandhi, S.K. (1999). Efficacy of fungitoxicants and neem based pesticides in the control of early blight of tomato. *Pestology* **23** (11) : 7-11.
54. Singh, Jagpal & Garg, A.P. (2000). Bioconversion of sugarcane bagasse using *Gliocladium virens*. *Biotechnology & Plant Pathology Current Trends* (Arora, D.K. & Trivedi, P.C. eds) Printwell Publishers, p. 156-172.
55. Gupta, Damodar; Rajesh Arora, A.P. Garg and H.C. Goel (2003). Radiation protection of HepG2 Cells by *Podophyllum hexandrum* Royale. *Molecular and Cellular Biochemistry.* **250** : 27-40.
56. Sharma, Mukta and A.P. Garg (2004). Production of nisin like bacteriocin from *Lactococcus lactis* subsp. *lactis* strain CCSU 1011 isolated from milk. *International Journal of Food Microbiology.*
57. Gupta, Damodar; Rajesh Arora, Amar Prakash Garg, Madhu Bala and Harish Chandra Goel (2004). Modification of radiation damage to mitochondrial system *in vivo* by *Podophyllum hexandrum* : Mechanistic aspects. *Molecular and Cellular Biochemistry.* **266** : 65-77.
58. Kumari, Rina; Minu Sachdev, Amar P. Garg and Ajit Varma (2004). Symbiotic Fungi for Eco-friendly Environment: A Perspective. *Natural Product Radiance*, CSIR **3** : 396-400.
59. Dutt, Dharm; C.H. Tyagi; A.K. Upadhyaya and A.P. Garg (2004). Environmentally compatible pulping and bleaching of distillate of *Cymbopogon martini*. *Proceedings of 2<sup>nd</sup> World Conference on Biomass for Energy, Industry and Climate Protection*, held in Rome (Italy) from May 10-14, 2004 p. 2063-2067.

60. Singh, A, P. Sharma; M. Sachdev; R. Kumari; R. Prasad; A.P. Garg; R. Oemueller and A. Varma (2004). Molecular basis of plant symbiotic fungi interaction : An Overview. Conservation of Plant Diversity in India (eds. Singh, J.S.; A.K. Bhatnagar; P.K. Roy and V.P. Singh). Naya Prakashan, p. 323-352.
61. Kumari, R.; G.H. Pham, R. Prasad, M. Sachdev, A. Srivastava, V. Yadav, P.K. Verma, S. Sharma, R. Malla, A. Singh, A.K. Maurya, S. Prakash, A Pareek, K-H. Rexer, G. Kost, A.P. Garg, R. Oelmueller, M.C. Sharma and A. Varma (2004). *Piriformospora indica* : Fungus of millennium. In : *Microbiology Series : Basic Research and Applications of Mycorrhizae* (eds : Podila, G.K. & Ajit Varma) I.K. International -India, New York and Kulwer Academic Press, Holland pp. 259-295.
62. Giri, B.; Giang, P.H.; Kumari, R.; Prasad, R.; Garg, A.P. and Varma, A. (2004). Microbial diversity in soils. In: *Micro-organisms in Soils: Roles in Genesis and Functions*. (ed. Buscot F. and Varma, A.) Springer-Verlag, Germany, pp. 19-58.
63. Giri, B.; Giang, P.H.; Kumari, R.; Prasad, R.; Sachdeva, M.; Garg, A.P. ; Oelmuller, R and Varma, A. (2004). Mycorrhizosphere: Strategies and Functions. In: *Micro-organisms in Soils. Roles in Genesis and Functions*. (ed. Buscot F. and Varma, A.) Springer-Verlag, Germany, pp. 213-252.
64. Prasad, R.; A.P. Garg and A. Varma (2004). Interactions of medicinal plants with PGPRs and symbiotic fungi. In : *Microbiology Series : Basic Research and Applications of Mycorrhizae* (eds : Podila, G.K. & Ajit Varma) I.K. International -India, New York and Kulwer Academic Press, Holland pp.363-407.
65. Dutt, Dharm, Tyagi C.H., Upadhyaya A.K. and Garg A.P. (2004). Environmentally Compatible Pulping and Bleaching of Distillate of Cymbopogon Martini, Proceedings of 2nd World Conference and Technology Exhibition on biomass for energy, industry and climate protection held on May 2004, at Rome, Vol. 1014, pp. 2063-67.
66. Singh, A.; R. Kumari, A.P. Garg and A. Varma (2005). Endomycorrhizal diversity. In : *Microbiology Series : Basic Research and Applications of Mycorrhizae* (eds : Podila, G.K. & Ajit Varma) I.K. International Pvt. Ltd., New Delhi pp. 1-23.
67. Kumari, R.; A.P. Garg and A. Varma (2005). Biological hardening of micropropagated plants of horticultural importance. In : *Microbiology Series : Basic Research and Applications of Mycorrhizae* (eds : Podila, G.K. & Ajit Varma) I.K. International Pvt. Ltd., New Delhi pp. 339-362.
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