

FACULTY PROFILE

Name : Dr. M. S. Nalini
Designation : Associate Professor
PhD Degree awarded : Applied Botany, 2001
Area of Research : Plant Virology
Topic of PhD program : “Isolate variation and seed transmission of bean common mosaic virus (BCMV) in french bean”
Date of joining : 23.03.2007
Specialization : Angiosperm morphology, morphogenesis and plant tissue culture
Research areas : Bioprospection of medicinal plants and microbial endophytes
No. of PhD students : Working (03)
Submitted/degree awarded : Nil

Sl no.	Name of the student	Topic of PhD Program	Submitted/ Degree awarded
1	Mrs. Akshatha J.V.	“Phytochemical investigations, endophytic actinomycetes and bioactivity of selected medicinal plants from Western Ghats”	Degree awarded (2016)
2	Mrs. Deepa R. Hebbar	“A comparative study on the phytochemical constituents of <i>Schefflera</i> species and their antioxidant, antimicrobial and antifeedant activity”	Degree awarded (2017)
3	Mrs. Madhuchhanda Das	“Isolation of endophytic fungi and actinomycetes from selected medicinal species of the Western Ghats and evaluation of their bioactive potential”	Degree awarded (2018)
4	Mrs. Devika M	“Evaluation of antioxidant, nootropic and antidepressant properties of <i>Litsea floribunda</i> (Bl.) Gamble- Lauraceae)”	Degree awarded (2018)
5	Ms. Sameera Banu	“Bioprospecting of actinomycetes from coffee plantation soils of Chikkamagalur district”	Degree awarded (2020)
6.	Ms. Bhavana N.S.	“Molecular characterization of fungal endophytes from selected medicinal species of apocynaceae and evaluation of their L-asparaginase, anti-proliferative and antioxidative potentials”	Thesis submitted (2020)
7.	Mrs. Geetha H.	“Biological activities of <i>Elaeocarpus</i> spp. from Western Ghats”	Registered

No. of MPhil students (degree awarded): 05 (five only)

Topic of MPhil Dissertation:

Sl no.	Name of the student	Topic	Degree awarded
1	Mr. Guru C. 2012	“Isolation and identification of endophytic fungi from <i>Coccinea indica</i> (W. & A.) and their antibacterial activity”	Awarded
2	Ms. Manasa 2012	“Endophytic fungi from <i>Tabernaemontana heyneana</i> Wall. (Apocynaceae) and their L-asparaginase activity”	Awarded
3	Ms. Thejeswini 2012	“Phytochemical analysis, evaluation of total phenolics content and antioxidant activity of <i>Strobilanthes barbatus</i> Nees. (Acanthaceae)”	Awarded
4	Mrs. B V. Akshatha 2013	“Evaluation of phytochemical constituents and antioxidant activity in bark extracts of <i>Fagraea zeylanica</i> Thunb.”	Awarded
5	Ms. Anvitha A.R. 2014	“Phytochemicals in <i>Dioscorea oppositifolia</i> L. and their characterization by thin layer chromatography”	Awarded

No. of MSc project students : 15 (Fifteen only)

Topic of MPhil Dissertation:

Sl no.	Name of the student	Topic	Degree awarded
1	Ms. Asha D. 2012	Evaluation of phytochemical and antioxidant activity of <i>Remusatia vivipara</i> (Roxb.) Schott., an edible genus of araceae	Awarded
2	Ms. Amitha V. 2012	Isolation, identification and characterization of endophytes from spices and green leafy vegetables	Awarded
3	Ms. Chaithra R2012	Identification and phytochemical evaluation of <i>Ganoderma</i> isolates from <i>Delonix regia</i> L.	Awarded
4.	Ms. Savitha R.S 2012	Phytochemical analysis and evaluation of antioxidant activity in leaf gall of <i>Ficus glomerata</i> Roxb. (Moraceae)	Awarded
5	Ms. Shilpa K.E. 2012	Stem gall of <i>Michaelia champaka</i> L.: Identification of gall- maker, histochemical and phytochemical analysis	Awarded
6	Ms. Anvitha N. R.	Phytochemical screening and antioxidant activity of leaf and flower extracts of <i>Strobilanthes heyneanus</i> Nees.	Awarded
7	Ms. Ashwini B. 2013	Evaluation of phytochemicals and antioxidant activity on <i>Nicandra physalodes</i> (L.) Gaertn. fruits and seeds.	Awarded
8	Ms. Krupa B. G. 2013	Phytochemical analysis and evaluation of antioxidant activity in <i>Ganoderma lucidum</i> (W. Curst. Fr.) P. Karst.	Awarded

		extracts	
9	Ms. Preethi V.C. 2013	Phytochemical analysis and antioxidant activity of wood rotting basidiomycete fungi	Awarded
10	Ms. Supriya M. S. 2013 .	Evaluation of phytochemical analysis and antioxidant activity in leaves and fruits of <i>Ficus asperrima</i> Roxb.	Awarded
11	Ms. Divya D'Souza 2014	Phytochemical analysis and antioxidant activity of <i>Passiflora miniata</i> Vanderplank	Awarded
12	Ms. Kavyashree K. 2014	In vitro phytochemical analysis and antioxidant activity of <i>Callicarpa tomentosa</i> (L.) Merr. (Verbenaceae)	Awarded
13	Mr. Krishna C.R. 2014	Phytochemical analysis and antioxidant activity in the fruits of <i>Litsea floribunda</i> (Bl.) Gamble	Awarded
14	Ms. Manasa M.S. 2014	Phytochemical and antioxidant studies on the leaf extracts of <i>Alstonia scholaris</i> (L.) R. Br. (Apocynaceae)	Awarded
15	Ms. Ramya C. 2014	Evaluation of phytochemicals and antioxidant activity of <i>Chassalia ophioxylodes</i> (Wall.) Craib., leaves, stem and flower extracts	Awarded
16	Ms. Sowmya S. 2015	Preliminary qualitative phytochemical and antioxidant evaluation of <i>Gloriosa superba</i> L.	Awarded
17	Mr. Krishne Gowda M.P. 2015	Preliminary qualitative phytochemical and antioxidant evaluation of <i>Cissus repanda</i> Vahl. leaf and stem extracts	Awarded
18	Mr. Sudarshan H.T. 2015	Evaluation of phytochemical and antioxidant activity in <i>Fragraea ceilanica</i> Thunb. leaf extracts	Awarded
19	Ms. Namitha S. 2015	Phytochemical analysis and antioxidant activity in the fruits of <i>Rauwolfia densiflora</i> L.	Awarded
20	Ms. Rashmi G. N. 2015	Phytochemical analysis and antioxidant activity of <i>Clerodendrum paniculatum</i> L. leaf and flower extracts	Awarded
21	Mr. Sunil T. A. 2015	Evaluation of phytochemicals and antioxidant activity in <i>Litsea floribunda</i> (Bl.) Gamble galls, healthy leaves and flower extracts	Awarded
22	Mr. Avinash M.A. 2016	Phytochemicals, antioxidant activity and TLC characterization of <i>Hibiscus rosa-sinensis</i> L. leaf and flower extracts	Awarded
23	Ms. Sowmya P. 2016	Phytochemicals, antioxidant activity and TLC characterization of <i>Ruta graveolans</i> L. extracts	Awarded
24	Ms. Kusumanjali D. 2016	Phytochemicals, antioxidant activity and characterization of <i>Sesbania grandiflora</i> L. leaf and bark extracts	Awarded
25	Mr. Ravikumar S. R 2016	Phytochemicals, antioxidant activity and TLC characterization of selected lamiaceae species	Awarded
26	Mr. Pramod S. 2016	Investigations on phytochemical, antioxidant activity and TLC characterization of aerial parts of <i>Sauropus androgynus</i> L. extracts	Awarded
27	Ms. Pavithra H.V.	<i>Leptadenia reticulata</i> (Retz.) Wight & Arn. : Detection of phytochemicals and antioxidant activity in leaf extracts	Awarded

	2017		
28	Ms. Chaithra A. 2017	Studies on phytochemicals, antioxidants and galls on <i>Acacia nilotica</i> (Linn.) Willd ex. Del.	Awarded
29	Ms. Priyaswamy M.S. 2017	Phytochemicals and antioxidant activity in leaf extracts of <i>Abutilon indicum</i> (Link) Sweet	Awarded
30	Mr. Basavaraj Madar 2017	Studies on phytochemicals, antioxidants and identification of the gall-inducer in <i>Canthium dicoccum</i> (Gaertn.) Merr.	Awarded
31	Mr. Balraja D. 2017	Phytochemicals, antioxidant activity and TLC characterization of the ethnomedicinal plant, <i>Rubia cordifolia</i> L.	Awarded
32	Mr. Chethan B.C. 2017	Evaluation of phytochemicals, antioxidant activity and TLC characterization in the angiospermic root parasite, <i>Balanophora fungosa</i> J.R. Forst. & G. Forst. extracts	Awarded
33	Mr. Baba Gouda 2017	Evaluation of phytochemicals, antioxidant activity and TLC characterization of <i>Crescentia alata</i> Kunth. extracts	Awarded
34	Ms. Afiya H.A. 2018	Phytochemicals, antioxidant activity and TLC characterization of <i>Citrus medica</i> L. fruits	Awarded
35	Ms. Gadepalli Bhavana 2018	Phytochemical investigations and antioxidant activity of <i>Hibiscus cannabinus</i> L. extracts	Awarded
36	Ms. Rsamya S. 2018	Evaluation of phytochemicals, antioxidant activity and TLC characterization of <i>Delonix elata</i> Linn. Leaves, flower and bark extracts	Awarded
37	Ms. Sushma H. G. 2018	Phytochemical analysis, In vitro antioxidant activity and TLC characterization of leaf and fruit extracts of <i>Terminalia bellerica</i> Roxb.	Awarded
38	Mr. Ravi Kumar M. 2019	<i>Prosopis cineraria</i> L.(Fabaceae): Identification of the gall maker, phytochemical analysis, antioxidant activities and characterization studies	Awarded
39	Ms. Sarala L. 2019	Studies on Comparative phytochemical analysis, antioxidant activity and characterization of healthy and gall-induced leaf extracts of <i>Syzygium caryophyllatum</i> (L.)	Awarded
40	Ms. Shamanthakamani 2019	Phytochemical analysis, antioxidant activity and characterization studies in the leaf extracts of <i>Bryonia lacinosa</i> L.(Cucurbitaceae)	Awarded
41	Ms. Sowjanya S 2019	Investigations on phytochemical analysis, antioxidant activity and characterization of <i>Premna serratifolia</i> L. leaf extracts	Awarded
42	Ms. Tejeswini 2019	Phytochemical analysis and antioxidant activity in the healthy and gall-induced leaves of <i>Holigarna arnottiana</i> Hook. f. (Anacardaceae)	Awarded
43	Mr. Waseem Pasha 2019	Studies on insect gall, phytochemical analysis and characterization of the leaf extracts of <i>Madhuca nerifolia</i> (Moon) H.J. Lam	Awarded
44	Ms. Anusha M.L. 2020	Preliminary phytochemical analysis and antioxidant activity in the rhizome extracts of <i>Costus pictus</i> D. Don.	Passed out

45	Ms. Ayesha Suman 2020	Phytochemical analysis and antioxidant activity of <i>Drynaria quercifolia</i> extracts	Passed out
46	Ms. Neha C.N. 2020	Evaluation of phytochemicals and antioxidant activity in <i>Hygrophila auriculata</i> extracts	Passed out
47	Ms. Neha V.R. 2020	Evaluation of phytochemicals and antioxidant activity in the health and galled leaves of <i>Syzygium cumini</i> (Linn.)	Passed out
48	Ms. Kavyashree M.N. 2020	Phytochemicals and antioxidant activity in the floral extracts of <i>Bauhinia purpurea</i> Linn. (Fabaceae)	Passed out
50	Ms. Keerthana M. 2020	Phytochemical analysis and antioxidant activity of the ethnomedicinal plant, <i>Cissus pallida</i> L. (Vitaceae)	Passed out
51	Mr. Pavan Shankrappa Belludi 2020	Phytochemical analysis and antioxidant activity of the ethnomedicinal plant, <i>Gmelia arborea</i> Roxb. (Verbenaceae)	Passed out
52	Mr. Prajwal S. 2020	Investigations on the phytochemicals and antioxidant activity in the bark extracts of <i>Thespesia populinea</i> (L.) Sol. Ex. Correa (Malvaceae)	Passed out
53	Mr. Pruthviraj K.B. 2020	Studies on comparative phytochemical nanalysis and antioxidant activity of ethnobotanical plant, <i>Asparagus racemosus</i> Willd. (Asparagaceae)	Passed out
54	Ms. Tejaswini B.K. 2020	Investigations on phytochemicals and antioxidant activity in the husk extracts of <i>Areca cathechu</i> L.	Passed out

LIST OF PUBLICATIONS

1. Nalini, M.S., Akshatha, J.V., Sampathkumar, K. and Prakash, H.S. 2011. *Rauvolfia micrantha* Hook. F. (Apocynaceae): An endemic and endangered medicinal species with new distributional record for Karnataka, India. **Journal of Economic & Taxonomic Botany** 35 (3): 630-632. ISSN 2050-9768

2. Deepa H.R. and Nalini M.S. 2013. Phytochemical screening, total phenolic content and in vitro antioxidant studies of leaf, bark and flower extracts of *Schefflera* spp. (Araliaceae). **Journal of Applied Pharmaceutical Science** 3(11): 094-098. ISSN 2231-3354.

3. Asha, D., Nalini, M.S., Shylaja M.D. 2013. Evaluation of phytochemicals and antioxidant activities of *Remusatia vivipara* Roxb. Schott., an edible genus of Araceae. **Der Pharmacia Lettre** 5 (5): 120-128. (Scholars Research Library, UK) ISSN 0975-5071

4. Savitha, R.S., Akshatha, J.V. and Nalini, M.S. 2013. Phytochemical analysis and evaluation of antioxidant activity in leaf gall of *Ficus glomerata* Roxb. (Moraceae). **International Journal of Pharma and Biosciences** 4(2): 938-944. ISSN 0975-6299.

5. Hebbar, D.R. and Nalini, M.S. 2014. Evaluation of phytochemicals, total phenolics and antioxidant activities of *Schefflera* spp. (Araliaceae) from southern India. **Journal of Pharmacognosy & Phytochemistry** 2(5):10-14. ISSN 2278-4136.

6. Amitha, V., Shylaja, M. D, and Nalini, M. S. 2014. Fungal endophytes from the culinary herbs and their antioxidant activity. **International Journal of Current Research** 6(8):7996-8002. ISSN: 0975-833X.

7. Krupa, B.G. and **Nalini, M.S.** 2014. Evaluation of phytochemicals and antioxidant activity in *Ganoderma lucidum* (W. Curst. Fr.) P. Karst.extracts. **Indian Journal of Natural Sciences** 4(25): 1721-1728. ISSN 0976-0977.
8. Akshatha, V.J., **Nalini, M.S.**, D'Souza, C. and Prakash, H.S. 2014. Streptomycete endophytes from anti-diabetic medicinal plants of the Western Ghats inhibit alpha-amylase and promote glucose uptake. **Letters in Applied Microbiology** 58:433-439. IF = 1.749 (John Wiley & sons).
9. **Nalini, M.S.**, Sunayana, N., and Prakash, H.S. 2014. Endophytic fungal diversity in medicinal plants of Western Ghats, India. **International Journal of Biodiversity** doi.org/10.1155/2014/494213 (Hindawi).
10. Sunayana, N., **Nalini, M.S.**, Sampath Kumara, K.K. and Prakash, H.S. 2014. Diversity studies on the endophytic fungi of *Vitex negundo* L. **Mycosphere: online-Journal of Fungal Biology** 5 (4): 578–590. ISSN 2077 7019 (Guizhou Academy of Agricultural Sciences, PRChina).
11. Manasa, C. and **Nalini, M.S.** 2014. L-asparaginase activity of fungal endophytes from *Tabernaemontana heyneana* Wall. (Apocynaceae), endemic to the Western Ghats (India). **International Scholarly Research Notices** doi.org/10.1155/2014/925131 (Hindawi).
12. Hebbar, D. R., Savitha, G. and **Nalini, M.S.** 2015. Aqueous leaf extracts of *Schefflera venulosa* and *S. wallichiana* (Araliaceae) protects the liver against carbon tetrachloride (CCl₄) - induced hepatic damage in albino rats. **American Journal of Pharmtech Research** 5(1):328-340. ISSN: 2249-3387.
13. Akshatha, J.V., Prakash, H.S. and **Nalini, M.S.** 2015. Antioxidative and α -amylase inhibitory potentials of medicinal plants from the Western Ghats of southern India. **Der Pharmacia Lettre** 7(5):10-17, (Scholars Research Library, UK). ISSN 0975-5071.
14. **Nalini, M. S.**, Shilpa, K. E. and Basavarajappa, S. 2015. Stem gall of *Michelia champaca* L. (Magnoliaceae) induced by *Podothrips* sp.: Identification, histochemical and phytochemical studies. **Tropical Plant Research** 2(2):90-100, (Society for Tropical Plant Research, Kanpur, UP, India), ISSN 2349-1183.
15. Anvitha, N. R. and **Nalini M.S.** 2015. Phytochemical screening, total phenolic content and radical scavenging activity of leaf and flower extracts of *Strobilanthes heyneanus* Nees. **International Journal of Medicinal Plants, Photon** 108:665-670, ISJN:6672-4384.
16. Akshatha, J.V., Prakash, H.S. and **Nalini, M.S.** 2016. Actinomycete endophytes from the ethno medicinal plants of southern India: antioxidant activities and characterization studies. **Journal of Biologically Active Products from Nature** 6(2):150-165 (Taylor & Francis).
17. Devika, M. Joshi, H. and **Nalini, M.S.** 2016. Phytochemicals, antioxidative and *in vivo* hepatoprotective potentials of *Litsea floribunda* (BL.) Gamble (Lauraceae) - an endemic tree species of the southern Western Ghats, India. **Jordan Journal of Biological Sciences** 9(3):163-171, (Hashimite University, Jordan), ISSN 1995-6673.

18. Das, M., Prakash, H.S. and **Nalini, M.S. 2017a**. Antioxidative properties of phenolic compounds isolated from the fungal endophytes of *Zingiber nimmonii* (J. Graham) Dalzell. **Frontiers in Biology** 12(2):151–162, DOI 10.1007/s11515-016-1441-z (Springer Business Media + Higher Education Press China).

19. Das, M., Prakash, H.S. and **Nalini, M.S. 2017b**. Antioxidative and antibacterial potentials of fungal endophytes from *Justicia wynaadensis* Heyne., an ethnomedicinal rainforest species of Western Ghats. **Asian Journal of Pharmaceutical & Clinical Research** 10(6):203-209. (Innovare Academic Sciences, Bhopal, India), ISSN: 2455–3891.

20. **Nalini, M.S.** and Prakash, H.S. 2017. Diversity and bioprospecting of actinomycete endophytes from the medicinal plants. **Letters in Applied Microbiology** 64:261-270. IF = 1.579 (Wiley, Invited review).

21. Devika, M. and **Nalini, M.S. 2018a**. In vivo evaluation of anxiolytic activity of aqueous and ethanolic extracts of *Litsea floribunda* (Bl.) Gamble –Lauraceae. **Asian Journal of Pharmacy & Pharmacology** 4(1):31-37. ISSN: 2455-2674

22. Devika, M. and **Nalini, M.S. 2018b**. Evaluation of antidepressant potentials of *Litsea floribunda* (Bl.) Gamble (Lauraceae) using animal models. **International Journal of Pharmaceutical Sciences & Research** 9(8):3427-3432. ISSN (Online): 0975-8232, ISSN (Print): 2320-5148

23. Sameera, B., Prakash, H.S. and **Nalini, M.S. 2018a**. Actinomycetes from the coffee plantation soils of Western Ghats: Diversity and enzymatic potentials. **International Journal of Current Microbiology & Applied Sciences** 7(8):3599-3611. (Excellent Publishers) ISSN:2319-7692 (Print), ISSN:2319-7706 (Online).

24. Sameera, B., Prakash, H.S. and **Nalini, M.S. 2018b**. Indole acetic acid production by the actinomycetes of coffee plantation soils of Western Ghats. **International Journal of Current Microbiology** 108:665-670. Print ISSN 2319-7692 Online ISSN : 2319-7706

25. Das, M., Prakash, H.S. and **Nalini, M.S. 2018**. Bioactive sesquiterpene, plasticizer, and phenols from the fungal endophytes of *Polygonum chinense* L. **Annals of Microbiology** 68:595-609. (Springer IF= 1.4)

26. Bhavana N.S., Prakash, H.S. and **Nalini, M.S. 2019**. Antioxidative and L-asparaginase potentials of fungal endophytes from *Rauwolfia densiflora* (Apocynaceae), an ethnomedicinal species of Western Ghats. **Czech Mycology** 71(2):187–203, (Online version: ISSN 1805-1421). IF= 0.35).

27. Bhavana N.S., Prakash, H.S. and **Nalini, M.S. 2020**. Fungal endophytes from *Tabernaemontana heyneana* Wall. (Apocynaceae), their molecular characterization, L-asparaginase and antioxidant activities. **Jordan Journal of Biological Sciences** 13(4): 543-550 (Hashimite University, Jordan).

28. Das, M., Prakash, H.S. and **Nalini, M.S. 2020**. Antibacterial metabolites from *Bipolaris specifera*, an endophytic fungus of the endemic medicinal plant, *Zingiber nimmonii* (J. Graham) Dalzell. **3 Biotech** 10:317 <https://doi.org/10.1007/s13205-020-02307-0> (Springer IF= 2.408)

29. Hebbar, D.R. and Nalini M.S. 2020. GC-MS characterization of antioxidative compounds from the stem bark and flower extracts of *Schefflera* species, from Western Ghats. **Der Pharmacia Lettre** 12(7): 51-60, (Scholars Research Library).

30. Hebbar, D.R. and Nalini M.S. 2020. Antibacterial activity of lianoid and arboreal species of *Schefflera* from southern India. **Asian Journal of Pharmaceutical and Clinical Research** 13(6): 46-50.

31. Akshatha, J.V., Santhosh Kumar, H.S., Prakash, H.S. and Nalini M.S. 2021. *In silico* docking studies of α -amylase inhibitors from the anti-diabetic plant *Leucas ciliata* Benth. and an endophyte, *Streptomyces longisporoflavus*. **3 Biotech** 11:51 <https://doi.org/10.1007/s13205-020-02547-0> (Springer 2020 IF= 2.408).

32. Anvitha N.R. and Nalini M.S. 2021. Phytochemicals, antioxidant Activity in *Dioscorea oppositifolia* L. and Their Characterization by Thin Layer Chromatography. **Bulletin of Environment, Pharmacology and Life Sciences** 10 (3): 20-28 Online ISSN 2277-1808.

Invited book chapters (Published)

1. Nalini, M.S., Prakash, H.S. and Tejesvi, M.V. 2019. Bioactive potentials of novel molecules from the endophytes of medicinal plants. In: **Medically important plant biomes:source of secondary metabolites, Microorganisms for sustainability**, 15, D. Egamberdieva, A. Tiezzi (eds.), SpringerNature Singapore Pte Ltd., Singapore, pp: 293-351, ISBN978-981-13-9565-9, https://doi.org/10.1007/978-981-13-9566-6_13

2. Nalini, M.S. and Prakash, H.S. 2020. Actinobacteria: Diversity, plant interactions and biotechnology applications. In: **Plant microbiomes for sustainable agriculture, Sustainable Development and Biodiversity**. A. N. Yadav et al. (eds.), SpringerNature Switzerland AG, pp:199-244, ISBN 978-3-030-38452-4,https://doi.org/10.1007/978-3-030-38453-1_7.

Conferences/ workshops attended:

- Attended a workshop on “**Molecular biology techniques in microbiology**” sponsored by the Human Resource Development from 4th to 8th June 2007 at CFTRI, Mysore.
- Participated and presented a paper on “**Endophytic fungal isolations from important medicinal herbs of Southern India**” in the poster session of “2007- National Seminar on Molecular Plant Pathology and Biotechnology for Sustainable Crop Production” held from 28th to 29th Nov’07 at the DOS in Applied Botany, Seed Pathology & Biotechnology, UOM, Manasagangothri, Mysore-06.
- Presented a paper in the poster session on “**Isolation of endophytic fungi and actinomycetes from some medicinal plants of Southern India**” at the “2008 - 30th Annual Conference & Symposium On Advances in Plant Protection” held from 17th to 19th Nov’08 at the DOS in Applied Botany, Seed Pathology & Biotechnology, UOM, Manasagangothri, Mysore-06.
- Participated in the **National Seminar on Plant Biodiversity &Bioprospecting** held during 10th& 11th March 2009 at the DOS in Botany, University of Mysore, Manasagangothri, Mysore-06.

- Presented a paper in the poster session on “**Screening of endophytic fungal extracts from medicinal plants of Southern India for total polyphenolics**” at the “**UGC sponsored National Conference on Emerging Trends in Medicinal Plant Research**” held from 8th to 9th Oct’ 2009 at the Maharani’s Science College for Women, Bangalore-01.
- Participated in the **Dr. Norman E. Borlaug Commemoration National Conference on Plant Diversity & Plant Health** held during 11th& 12th March 2010 at the DOS in Botany, University of Mysore, Manasagangothri, Mysore-06.
- Participated in **One day symposium on “Microbial Energy”** held during 15th September 2010 organized by DOS in Microbiology & Sir M.Visveswaraiah Chair, University of Mysore, Manasagangothri, Mysore-06.
- Participated in the **National Conference on Fungal diversity & emerging crop diseases**” held during 12th& 13th May 2011 at the DOS in Botany, University of Mysore, Manasagangothri, Mysore-06.
- Poster presented at **International Conference on Biodiversity, Bioresources and biotechnology**, sponsored by the Association for the advancement of Biodiversity Science & Society for Biotechnology, held during 30-31st January, 2014, Mysore by Deepa H.R. and **Nalini M.S.**, “Phytochemical constituents, total phenolic content and antioxidant activity of *Schefflerastellata* (Gaertn.) Harms. (Araliaceae), an epiphytic species”
- **International Conference on “Biodiversity, Bioresources & Biotechnology”** Poster on “Phytochemicals and antioxidant properties of *Litsea floribunda* (Bl.) Gamble (Lauraceae) of Western Ghats.” – Devika, M. and **Nalini M. S.**, **International Conference on “Biodiversity, Bioresources & Biotechnology”**, on 30th and 31st January, 2014, Organized by The Association for the Advancement of Biodiversity Science, Society for Applied Biotechnology & Imperial Scientific Publishing.
- **International Symposium on Role of Fungi and Microbes in the 21st century-A Global Scenario**, Poster presented on “Antioxidative potentials of fungal endophytes from the endemic medicinal plant of Western Ghat-*Zingiber nimmonii* (J. Graham) Dalzell. – Das, M., Nalini, M.S. and Prakash, H.S., Organized by Indian Mycological Society, in collaboration with Department of Botany, University of Calcutta, 20th to 22nd February, 2014.
- **Invited to deliver a lecture on “An Insight into Biodiversity & Conservation”** at **Sarada Vilas College, Mysore** on 28th September 2015 (copy enclosed)
- Involvement in **Technical Committee** for lead talks in **Plenary lectures, 103rd ISCA**, UOM, Mysore, ISCA 2016- UOM from 3rd to 7th January 2016.
- Member of **Printing Sub-committee of 103rd ISCA**, UOM, Mysore (GL.2/71/2015-16 dt. 19.9.2015)(copy enclosed)
- Participated in **National Symposium on “Perspectives on Life Science, Society and Emerging Technologies” as Rapporteur** held during 19th to 23rd December 2016 organized by IOE, UPE & CPEPA, VijnanaBhavana, University of Mysore, Manasagangothri, Mysore-06 Participated in **One day National symposium on “Trends in Microbiology”** held on 12th May 2017, organized by DOS in Microbiology, University of Mysore, Manasagangothri, Mysore-06 (Regd. on the topic “*In silico* docking studies of α -amylase inhibitors from *Streptomyces longisporoflavus*, an endophyte of *Leucas ciliata* Benth., of the Western Ghats).
- Participated in **Eight days National Training on “Application and Trouble Shooting of Scientific Equipments”** held during 1st to 8th December 2017 organized by IOE, UPE & CPEPA, VijnanaBhavana, University of Mysore, Manasagangothri, Mysore-06

- Participated in **One day Workshop for the Revision of MSc Botany Syllabus under CBCS System, DOS in Botany**” held on 28th February 2018, organized by BOS in Botany, University of Mysore, Manasagangothri, Mysore-06
- Participated in **two days National Conference on “Biodiversity and Bio-prospecting for Sustainable development”** held during 23rd to 24th February 2018 organized by IOE & UPE Vijnana Bhavana, University of Mysore, Manasagangothri, Mysore-06
- Participated in **One day National Symposium on “Current Developments in Plant Science” as Organizing Convener & as Chairman of the special lecture 3 on “The emerging roles of nitric oxide (NO) in plant response to hypoxic stress”** held on 2nd March 2018 organized by DOS in Botany, UPE, University of Mysore, Manasagangothri, Mysore-06
- Participated in **One day Workshop on “Strengthening Forward-Backward Linkages for Sustained Supply of Medicinal Plants to Industry through Profitable Cultivation”** held on 1st October 2018, jointly organized by NMPB-RCFC (Southern region), KaMPA, DOS in Botany, University of Mysore, Manasagangothri, Mysore-06
- Participated in **Ten days Workshop on “Human Cell Culture Technology & its Application in Cancer Research”** held from 26th November to 6th December 2018, jointly organized by UGC-UPE-UOM & Sanorva Biotech, in DOS in Biotechnology, University of Mysore, Manasagangothri, Mysore-06
- Participated in the inaugural session of the **One day National Seminar on “Plants and Ayurveda: Opportunities & Challenges”** held on 14th March 2019 organized by DOS in Botany, University of Mysore, Manasagangothri, Mysore-06
- Participated and presented a poster on **“Bioactive antibacterial compounds from *Streptomyces indiaensis*, an endophyte of the endemic medicinal plant, *Zingiber nimmonii* (J. Graham) Dalzell. in two day “International workshop on Biology & Applications of Actinomycetes”** held on 31st October to 1st November 2019 organized by University of Mysore, Mysore in association with Helmholtz Center for Infection Research & Technical University of Braunschweig, Germany.
- Participated in the Cisco Webex Platform virtual conference on **“PRATHIRODHA (Resistance against the pandemic): COVID-The Ayurvedic Perspective”** on 5th November 2020 from 11 am to 12.30 pm) organized by JSS Ayurveda Hospital, Alanahalli, Mysore.
- Participated in the **Grammarly Training**-organized by the University Library, University of Mysore via Zoho meet on 10th November 2020.
- Participated in the **Reaxys: An Innovative Data Analysis Tool Confirmation** -organized by Elsevier via Zoom meet on 11th December 2020.
- Participated in the **National Resource Center for Education (NRCE) Faculty Enrichment Webinar for Life Science Teachers in Higher Education** via youtube app on January 14th 2021
 - Participated and presented a paper through virtual mode on **“Phytochemicals, antioxidant activity in *Dioscorea oppositifolia* L. and their characterization by thin layer chromatography”** in two day **“International conference on “Recent Trends in Pharmaceutical, Medical and Applied Sciences for Global Development (RTPMASGD-2021)”** held on January 28th-29th, 2021 by Zoom video conferencing app, organized by Pharma Medical Sciences Development Society (PMSDS) with other collaborators.
- **Reviewer for science journals** : Letters in Applied Microbiology/Journal of Applied Microbiology (Wiley), Pharmaceutical Biology (Taylor & Francis), Journal of Biologically

Active Products from Nature (Taylor & Francis), **Czech Mycology** (Journal of the Czech Scientific Society for mycology), **Current Microbiology** (Springer Nature), **FEMS Microbiology Letters** (Oxford University Press), **Archives of Microbiology** (Springer Nature), **Chiang Mai Journal of Science** (Chiang Mai University, Thailand), **Science Domain International** (India), **Cambridge University Press, India**

International visits

- Visited **Missouri Botanical Garden, St. Louis, USA** on **15th of June & 3rd of July, 2013**
- Signed up as a participant for the **“Future farmers” tour program, Monsanto Head Office, St. Louis, USA**
- Visited **Yellowstone National Park (World’s first biodiversity park), Montana/Wyoming, USA** on **27th & 28th of June 2013** to witness geothermal features and thermophilic extremophiles related to the curriculum.

NATIONAL CONFERENCE/SYMPOSIUM/SEMINAR SESSIONS CHAIRED:

Sl. No.	Title of the seminar	Organized by	Date
1.	Rapporteur in “Fungal Diversity and Emerging Crop Diseases”	ISMPP & DOS in Botany, UOM	12 th & 13 th May 2011
2.	Technical Committee for lead talks in Plenary lectures, 103 rd ISCA, UOM, Mysore.	ISCA 2016- UOM	3 rd to 7 th January 2016
3.	Member, Printing Committee	ISCA 2016- UOM	
4.	Rapporteur in “ National Symposium on Perspectives on the Life Science, Society and Emerging Technologies”	XI Indian Social Science Congress, UOM, Mysore	19 th to 23 rd December, 2016

MEMBERSHIP TO PROFESSIONAL ORGANIZATIONS/ASSOCIATIONS:

Sl. No.	Name of the Association/Organizations	Ordinary member
1.	Association of Microbiologists of India (AMI, Mysore Unit)	Life member
2.	Indian Society of Mycology & Plant Pathology (ISMPP), Udaipur	Life member
3.	Association of Food Scientists & Technologists (India)	
4.	Society of Biological Chemists (India, Mysore Chapter)	Member 2007-08
5.	Indian Science Congress Association (ISCA)	Life Member Life Member 2015-16

Research Projects:

Sl No.	Principal Investigator	Title	Supporting Agency	Year	Amount (Rs.)
1	M.S. Nalini	“Bioactives from the endophytes of medicinal plants”	SERC-DST Women Scientist Scheme (A)	2007 to 2010	5,60,000=00
2	M.S. Nalini & H.S. Prakash	“Endophytic actinomycetes of selected medicinal plants of western ghats and their potentials as inhibitors of α-amylase & α-glucosidases”	MHRD-IOE-UOM	2010 to 2012	4,90,000=00
3	M.S. Nalini & H.S. Prakash	“Endophytic associations of selected medicinal plants of western ghats and their antioxidant and antimicrobial potentials”	UGC-Major research project	2011 to 2014	10,65,264=00
3	M.S. Nalini	“Endophytes from the selected medicinal plants of lamiaceae and their antioxidant and antimicrobial potentials”	UOM-Major research project	2017 to 2018	75,000=00