

CURRICULUM VITAE



Name: Dr. N. S. DEVAKI
Address: Associate Professor
Course Co-ordinator
5-Year Integrated M.Sc. Molecular Biology Course
Department of Molecular Biology
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Academic

Qualifications: Ph.D. in Botany from University of Mysore (UOM) : 1992
M.Sc. in Botany with I class and V Rank from UOM: 1985
B.Sc. (Chemistry, Botany and Home Science) with I class from Mangalore University:1983, College Studied: Sri Dharmasthala Manjunatheshwara College, Ujire, D.K.

Teaching Experience: Eighteen years as permanent faculty member in the Department of Botany and/ Microbiology/ Molecular Biology Yuvaraja's College, Mysore since Nov. 1996.

Research Experience: Sixteen years.

Worked on *Pythium* and *Phytophthora* diseases of tobacco from November 1986 to March 1991 for Ph.D degree and on Biological control of quick wilt of black pepper (*Piper nigrum* L.) from April 1992 to Nov 1996 as CSIR Research Associate.

Guided two M Phil students (Botany) and two Ph.D students (Microbiology).

Awards/Fellowships:

CSIR-Research Associateship –1993
UGC-Senior Research Fellowship -1988
UGC (NET)-Junior Research Fellowship –1986

Research Projects Completed/Ongoing:

Major/Minor	Order No Date of Sanction	Duration	Title	Funding Agency	Amount	Status
Minor	MRP(S)-2962005(x Plan)/KAMY002/UGC-SWRO dated 9 th March 2005	2years	*	UGC, Bangalore	Rs. 58,000/-	Completed
Major Projects	F. No. 41-408/2012 dated 16 th July 2012	3 years July 2012 to June 2015	**	UGC, New Delhi	10,35,600/-	Ongoing

*Isolation and preservation of Fungal and Bacterial Cultures as Teaching tool for UG Studies

**Studies on the Morphological and Molecular variability of Rice Blast Pathogen in Four Main Rice Growing Districts of Southern Karnataka

Research Scholars Working for Ph.D. /Completed:

Sl. No.	Name of the Research Scholar and the funding	Registration No.	Title	Status
1.	Mrs. K. Sumana Without fellowship registration	EX. 9.2/Ph.D/KS/376/ 05-06 dated 15-11-2006	Studies on Fusarium wilt of Tobacco in Karnataka	Awarded on 30.10.2012
2.	Mrs. M.Seema Without fellowship registration	EX. 9.2/Ph.D/MS/463/05-06 dated 14-03-2007	Biology and Management of <i>Rhizoctonia solani</i> Kuhn on Tobacco in Karnataka	Awarded on 18.07.2012
3.	Mr. R. Chandrakanth Without fellowship registration	Ex.9.6/ Ph.D/PR290/2011-12 dated 14-02-2012	“Characterization and DNA Methylation Analysis of Rice Blast Resistance Genes”	On going
4.	Mrs. K. Sharvani Under UGC-Faculty Development Programme	Ex.9.2/ Ph.D/KAS/2766/2011-12 dated 08-05-2012	“Revision and Conservation of Endemic species of Elaeocarpaceae of Karnataka State , India”.	On going
5.	Mr. D. Jagdeesh UGC MRP Project fellowship	Ex.9.6/ Ph.D/PR291/2011-12 dated 14-02-2012	“Morphological and Molecular Characterisation of <i>Magnaporthe grisea</i> (Hebert) Barr, the Blast pathogen of rice in south Karnataka”	On going
6.	Mr. Ragi Jadi Murthy UGC-NET: JRF fellowship	Enrollment No:EX9.6-Ph.D/PR1244/2012 – 13 dated: 02.03.2013	Elucidation of Fungistatic Actions of Phosphonates against <i>Phytophthora arecae</i> – The Causal Agent of Koleroga Disease of Arecanut	On going

Publications:

1. Sharvani, K.A. and Devaki, N.S. 2015. Distinct characters of *Elaeocarpus*, a conservation dependent endemic genus of Western Ghats. Acta Biologica Indica (accepted for Publication).
2. Seema, M., Sreenivas, S.S. and Devaki, N.S. 2015. Identification of anastomosis group of *Rhizoctonia solani* associated with tobacco in Karnataka. Acta Biologica Indica (accepted for Publication).
3. Jadimurthy, R. Marathe, G. K. and Devaki, N.S. 2014. Effect of ergosterol and arecanut husk extracts on *Phytophthora arecae*, the causal organism of Koleroga of Arecanut. Acta Biologica Indica 3(1):617-619.
4. Chandrakanth, R., Jagadeesh, D. and Devaki N.S. 2014. Black light mediated growth and sporulation of *Magnaporthe oryzae*. International Journal of Agricultural Science and Research 4 (4): 25-30.
5. Sumana, K. Devaki, N.S. 2014. Morphological and Biochemical variations among the populations of *Fusarium oxysporum* infecting FCV Tobacco in Karnataka. International Journal of Agricultural Sciences and Research 4(1):51-58.
6. Sumana, K., Punith, B.D. and Devaki N.S. 2014. First report on Molecular and Biochemical variations among the populations of *Fusarium oxysporum* infecting tobacco in Karnataka, India. International Journal of Agricultural Technology (Accepted for publication) 10(4): 931-950.

- 7.. Sharvani, K.A., Sadananda, K.B. Sampath Kumara, K.K. and Devaki N.S. 2013. Floristic study of Kikkarahally, a village located in the western ghats, a biodiversity hot spot. *Indian Journal of Tropical Biodiversity* 21 (1 &2): 1-14.
8. Sumana, K., Kini, K. R., & Devaki, N. S. 2013. Genetic diversity of *Fusarium* wilt pathogen of tobacco from Karnataka, India. *International Journal of Agricultural Technology*, 9(2), 357-370.
- 9.. Seema, M., Punith, B.D. and Devaki, N.S. 2013. First report on isozyme analysis of *Rhizoctonia solani* infecting tobacco in Karnataka, India. *JSSCM Journal*. Vol.2:44-49
10. Seema M, Sreenivas SS and Devaki NS. 2012. RAPD analysis of *Rhizoctonia solani* infecting FCV tobacco of Karnataka. *JSSCM Journal* 1(1):49-52.
11. Seema M, Punith BD and Devaki NS. 2012. A simple and rapid nuclear staining method for *Rhizoctonia solani* Kuhn. *Biotechnic & Histochemistry* 87:169- 171.
12. Seema M. and Devaki NS. 2012. In vitro evaluation of Biological control agents against *Rhizoctonia solani*. *Journal of Agricultural technology* 8:233-240.
13. Sumana K, Ramakrishnan S, Sreenivas SS and Devaki NS. 2012. Field evaluation of promising fungicides and bioagents against Fusarium wilt and root knot complex disease in FCV tobacco crop. *Journal of Agricultural Technology* 8:983-991.
14. Sumana K and Devaki NS. 2012. In vitro evaluation of some bioagents against tobacco wilt pathogen. *Journal of Biopesticides* 5:18-22.
15. Sumana K, Sreenivas SS and Devaki NS. 2012. First report on the cultural and pathogenicity variations of wilt pathogen infecting tobacco in Karnataka. *Journal Mycopathological Research*,50(1):27-33.
16. Seema M, Ramakrishnan S, Sreenivas SS and Devaki NS. 2011. Evaluation of *Trichoderma viride* formulations against sore shin disease in Flue-Cured Virginia (FCV) tobacco nurseries. *Journal of Biological Control* 25; 333-336.
17. Sumana K and Devaki NS. 2011. Use of plant extracts for the control of *Fusarium oxysporum* - a wilt pathogen. *Shodha* 1:95-101.
18. Seema M, Sreenivas SS, Rekha and Devaki NS. 2011. *In vitro* studies of some plant extracts against *Rhizoctonia solani* Kuhn infecting FCV tobacco in Karnataka Light Soil, Karnataka, India. *Journal of Agricultural Technology* 75:1321-1329.
19. Sumana K, Devaki NS, Shenoi MM and Ramakrishna S. 2011. Nematicidal effect of culture filtrates of wilt fungus *Fusarium oxysporum* on *Meloidogyne incognita*. *Tobacco Research* 36:81-84.
20. Sumana K, Srinivas SS and Devaki NS. 2011. Chemical control of wilt of tobacco caused by *Fusarium oxysporum* Schlecht. *Pestology* 35:31-33.
21. Seema M. and Devaki NS. 2010. Effect of some essential oils on *Rhizoctonia solani* Kuhn infecting flue-cured virginia tobacco. *Journal of Biopesticides* 3:563-565.
22. Seema M, Devaki NS and Sreenivas SS. 2010. In vitro evaluation of fungicides against *Rhizoctonia solani* infecting FCV tobacco in Karnataka soils. *Pestology* 34: 36-38.

Workshop Organised:

Organizing secretary for the five days **National Workshop on Bioinformatics** from January 20th to 24th 2005 organized by Yuvaraja's College and Centre for Information Science and Technology, University of Mysore, Mysore. This was sponsored by University of Mysore and Department of Biotechnology, New Delhi.

List of Research Papers Presented in Seminars/ Conferences :

1. **Devaki, N.S.**, and Bhat, S.S., 2003. Chlamydospore and oospore production in *Phytophthora nicotianae* var. *nicotianae* Presented in the 90th session of the Indian Science Congress, Bangalore held during January, 3-7, 2003.
2. Sumana, K., **Devaki, N. S.**, and Sreenivas, S.S., 2006. Preliminary investigations on *Fusarium* wilt of tobacco in Hunsur tract of Karnataka. Souvenir and abstracts, National Seminar on Fungal Biodiversity, Biotechnology and Bioinformatics and 32nd annual meeting of the Mycological Society of India held at Centre for post graduate studies, Sri Bhagawan Mahaveer Jain College, Bangalore, during February, 2 & 3, 2006.
3. Sumana, K., **Devaki, N. S.**, and Ramakrishnan, S. 2006. Nematicidal effect of culture filtrates of *Fusarium* wilt pathogen on *Meloidogyne incognita* Souvenir and abstracts, National Conference on Recent trends in Mycological Research and 33rd annual meeting of the Mycological Society of India held at JJ College of Arts and Science, Pudukottai, during December 28th and 29th , 2006.
4. Sumana, K. and **Devaki, N. S.**, 2008 .Cultural and Pathogenicity on *Fusarium* wilt of Tobacco In: Souvenir: 30th Annual Conference & Symposium on Advances in Biotechnology for Plant Protection organized by Department of Studies in Applied Botany and Biotechnology , University of Mysore and Indian Society of Mycology and Plant Pathology during 2008 p.no.58. Nov. 17-19, 2008, p.no. 57.
5. Seema, M. and **Devaki, N. S.**, 2008. Preliminary investigations on *Rhizoctonia solani* infecting FCV tobacco seedlings. In: Souvenir: 30th Annual Conference & Symposium on Advances in Biotechnology for Plant Protection organized by Department of Studies in Applied Botany and Biotechnology , University of Mysore and Indian Society of Mycology and Plant Pathology during 2008 p.no.58. Nov. 17-19, 2008, p.no. 58.
6. **Devaki, N.S.**, Sumana, K., Seema, M. and Kini, K.R. 2009. Comparison of RAPD profiles of *Fusarium oxysporum* and *Rhizoctonia solani* with their cultural and pathogenicity characteristics. In: Proceedings of National conference on Information Technology and its applications held at Centre for Information Science and Technology (CIST), University of Mysore during 21st and 22nd November 2009, p. no. 127-134.
7. Sharvani, K.A. and **Devaki, N.S.** 2010. Floristic study of Kikkarally village of Kodagu District. Paper presented during Dr. Norman E. Borlaug Commemoration National Conference on Plant Diversity and Plant Health, held at Department of Studies in Botany, University of Mysore, Mysore on 11th and 12th March 2010, 115 p.
8. Seema, M. and **Devaki, N.S.** 2010. Cultural, Morphological and Molecular Studies in *Rhizoctomia solani*. Paper presented during Dr. Norman E. Borlaug Commemoration National Conference on Plant Diversity and Plant Health, held at Department of Studies in Botany, University of Mysore, Mysore on 11th and 12th March 2010, 88 p.
9. Sumana, K. and **Devaki, N.S.** 2010. RAPD Studies on Tobacco Wilt Pathogen. Paper presented during Dr. Norman E. Borlaug Commemoration National Conference on Plant Diversity and Plant Health, held at Department of Studies in Botany, University of Mysore, Mysore on 11th and 12th March 2010, 86 p.
10. Sharvani K.A. Sadananda K.B., Sampath Kumara K.K. and Devaki, N.S. 2012. Plants used in traditional medicine from Kikkarahally village of Kodagu District. Abstract of the paper presented in: National Conference Emerging trends in Ayurveda and Herbal drugs. Held at Teresian College, Mysore 22nd and 23rd November 2012.
11. Chandrakanth, R. and **Devaki, N.S.** 2012. In-silico promoter analysis of rice blast resistance genes. Abstract of the paper presented during National conference on Recent trends in information technology and animation visual effects and gaming held at by Department of CIST, University of Mysore on 9th and 10th 2012, p.no. 13.

12. Jagadeesha, D. and **Devaki, N.S.** 2012. Comparison of sequences of Calmodulin gene responsible for appressorium formation and attachment over the host. Abstract of the paper presented during national conference on recent trends in information technology and animation visual effects and gaming held at by Department of CIST, University of Mysore on 9th and 10th 2012, p.no. 26.
13. Sharvani K.A and **Devaki N.S.** 2014. Distinct characters of *Elaeocarpus* a conservation dependent endemic genus of Western Ghats . In the Proceedings of International conference on Biochemistry, Bioresources and Biotechnology (ICBBB) organized by Association for the advancement of Biodiversity science, and (ABS) society for applied Biotechnology held on 30-31st January 2014, at Quorum Hotel, Mysore, p.no. 18.
14. Seema M. Sreenivas S.S and **Devaki N.S.** 2014. Identification of *Rhizoctonia solani* anastomosis and compatibility group associated with tobacco crop in Karnataka, India. In the Proceedings of International conference on Biochemistry, Bioresources and Biotechnology (ICBBB) organized by Association for the advancement of Biodiversity science, and (ABS) society for applied Biotechnology held on 30-31st January 2014, at Quorum Hotel, Mysore, p.no. 18.
15. Chandrakanth R., Jagadeesh D., and **Devaki N.S.** 2014. A novel method of in vitro sporulation of rice blast fungus-*Magnaporthe grisea*, Proceedings of ICBBB held on 30 – 31 Jan 2014 at Quorum Hotel, Mysore organized by ABS and SAB. P.no.117. **Got Best Poster award for this research paper.**
16. Jadimurthy R., Gopal Marathe K. and **Devaki N.S.** 2014. Effect of ergosterol and arecanut exhalt on *Phytophthora arecae*, the causal organism of koleroga of arecanut. Proceedings of ICBBB held on 30 – 31 Jan 2014 at Quorum Hotel, Mysore organized by ABS and SAB . P.no.117.
17. Sharvani K.A. Jagadeesh D., Chandrakanth R., Sumana K., Seema M and **Devaki N.S.** 2014. Phytochemical screening and antimicrobial assay of *Elaeocarpus* species of Western Ghats of Karnataka. . In : The Proceedings of International symposium on chemical Biology, Drug discovery Programme held on 9 – 10 Jan 2014 at Manasagangotri Mysore organized by Institution of Excellence (IOE), University of Mysore, Mysore, p.no. 66.
18. Seema M., Sreenivas S. and **Devaki N.S.** 2014. Morphological diversity in *Rhizoctonia solani* isolates. Abstract of the poster. In: The Proceeding of National symposium on Innovations in Science and Technology for Inclusive Development held on 3-4 Jan 2014 at Manasagangotri, Mysore organized by DOS in zoology university of Mysore, Mysore, p.no. 107.
19. Sumana K. and **Devaki N.S.** 2014. Morphological and biochemical variations of *Fusarium oxysporum* infecting FCV tobacco in Karnataka. In: The Proceeding of National symposium on Innovations in Science and Technology for Inclusive Development held on 3-4 Jan 2014 at Manasagangotri, Mysore organized by DOS in zoology university of Mysore, Mysore, p.no. 123.

List of Conference/Seminar/Workshop Attended:

Sl No.	Conference/Seminar/ workshop	Sponsored and organized by	Date
1	State level seminar on frontiers of Science and technology	Yuvaraja's College, University of Mysore (UOM)	5th January 2004
2	Regional level seminar on biodiversity for food security	Yuvaraja's College, University of Mysore. Sponsored by UGC Bangalore	24 to 25 June 2005
3	State level seminar on Biotechnology: Emerging Trends	Sharda Vilas College, Mysore. Sponsored by UGC, Bangalore.	12 th and 13 th august 2005
4	State level seminar on medicinal plants and semester syllabus, examination pattern in Botany	SAFG College Chennarayapatna and Mysore University Botany Teacher's Forum	6 th February 2006

5	City level seminar on Future perspective in Microbiology and Biotechnology.	Amrita Mahavidyalaya, Mysore.	18 th March 2006
6	National seminar on Molecular Plant Pathology and Biotechnology for sustainable crop production	DOS in Applied Botany and Biotechnology UOM, Mysore	28 th to 29 th November 2007
7	State level seminar on – Recent developments in Microbial technology	JSS college, for women Sarswathipuram Mysore, UGC - Sponsored	5 th & 6 th March 2007
8	State level seminar on Recent trends in plant sciences: MYMA PLANSCI - 2008	Department of Botany Maharani's Science College for women, Mysore.	29 th and 30 th August 2008
9	State level seminar on Genetic Engineering and its impact	Faculty of life sciences Bharthi college, Mandya, Sponsored by UGC, Bangalore.	24 th January 2009
10	International symposium on Challenges in drug discovery programme 2011 (ISCDDP – 2011)	Karnataka state open university, Mysore.	16 th – 17 th February 2011
11	Workshop on Intellectual property rights	KSCST, Bangalore and CIST, UOM, Mysore.	25 th March 2011
12	National level workshop on 'Modern Trends in Research Methodology'	Research Cell of SBRR Mahajana First Grade College, Mysore	20 th Dec 2011
13	National conference on cancer biology	DOS in Biochemistry, Manasa gangothi ,Mysore.	29 th to 30 th November 2013
14	Workshop on curriculum development in science subjects	JSS College, of arts, commerce and Science, Mysore	31 st December 2013
15	One day symposium on Self Structure and Function	DOS in Biochemistry MGM, Mysore.	28 th March 2013
16	Technical workshop on exploring SciFinder (Chemical abstracts) for scientific research in academia	Mysore university library at DOS in chemistry, UOM, Mysore	4 th January 2014
17	Technical seminar on Radiation technologies for food processing, Agriculture and water resources management	Indian nuclear society Mysore, BRNS Mumbai, AFST, Mysore.	30 th March 2013
18	Molecular Biology Lecture Series	Dept of Molecular Biology, Yvaraja's College, Mysore	5 th Sept 2014
19	National Seminar on Statistical methods and data analysis	UGC, Dept of Statistics , Yuvaraja's College, University of Mysore.	26 th and 27 th Sept 2014
20	State level seminar on Recent trends in plant taxonomy	Department on Botany Govt College for women, Mandya	29 th September 2014
21	National symposium on Lipids and cardio vascellar diseases	DOS in Biochemistry, UOM, Mysore.	13 th and 14 th April 2014

Hands on Training Obtained:

1	Hands on training course in Advanced cell and Molecular Biological techniques.	Department of applied Botany and Biotechnology UOM, Mysore. Sponsored by DBT, New Delhi	1 st to 21 st December 2006. (21 days)
2	National workshop on techniques in Molecular Biology in Bioinformatics – 2008.	Department of Microbiology of Maharani's Science college for women, Bangalore. Sponsored by DBT GOI, and UGC New Delhi	14 th to 17 th October 2008. (4 days)
3	Training on “Molecular Biology Techniques in Microbiology”	CFTRI, Mysore. Sponsored by DBT, GOI, New Delhi	4 th to 19 th March 2010 (16 days)

Other Achievements/Information:

- Invited as a subject expert member for selection of JRF position of projects, promotion of JRF to SRF position (St. Philomena's College, Maharani's Science college for women, Mysore. for UGC-MRP project fellows, CSR&TI, Mysore for JRF to SRF promotion interview).
- Currently a member of the team selected by the University of Mysore to prepare subject Encyclopedia of Botany in Kannada language : 2014
- Gave radio talk in Kannada on “Lasikegalu” on 4.5.2012 : invitation by Akashavani, All India Radio, Mysore. This was aired on 1`3.05.2012 at 8 PM in Vijnana Bharathi Programme.
- Selected as the DST mentor for INSPIRE program – during 2011. Since then, as a Mentor, I am being invited to judge the District level science exhibition competition being held annually or high school students of Hassan, Mysore, Kodagu districts of Karnataka.
- Invited to give lectures for M.Sc. Microbiology students of KSOU, during 2008, 2009, 2010.
- Served as a resource person for teaching Microbial genetics for M.Sc. Genetics, at DOS in Zoology, Manasagangotri, Mysore during 2006-2008.
- Served as a resource person for teaching M. Sc. Microbiology at Department of Studies in Microbiology, Manasagangotri, Mysore for the academic year 1999-2000.
- Did Kannada translation work of four blocks of course material for degree course conducted by KSOU under Fundamental Education in Science and Technology scheme in the year 2000-01.
- Wrote three blocks of self-instruction material for M. Sc. in Microbiology for KSOU in the year 2004.
- Wrote one block of self-instruction material for M. Sc. in Microbiology for KSOU in the year 2008.
- Invited to give special lectures in other colleges.
- Invited as judge for academic competitions in high schools and colleges.

- A new species of a fungus infecting neem tree (die-back disease) was discovered and named as *Phomopsis azadirachtae* Sateesh, Shank. Bhat & Devaki 1997 (Legitimate; MB442543).

[Dr. N.S. DEVAKI]