

CURRICULUM VITAE

Dr. Vedamurthy A. B

M.Sc., M.B. Tech., Ph.D. (Biotechnology)

Senior Professor

P.G Department of Studies and Research in Biotechnology & Microbiology

Director, Karnatak University Press

Coordinator, Innovation and Incubation Centre

Karnatak University, Dharwad-580003

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Academic Qualification

M.Sc.	Gulbarga University, Gulbarga	1994
M.B.Tech.	Gulbarga University, Gulbarga	1995
Ph.D. (Biotechnology)	Gulbarga University, Gulbarga Topic: Studies on selection of disease resistant line in sugarcane through cell and tissue culture	1999
PG Diploma	Software Technology Group, USA	2008

Area of Specialization

Genetic Engineering, Molecular Biology, Plant Biotechnology, Agricultural Biotechnology, Plant Pathology/Mycology and Microbial and Biochemical techniques,

Teaching Experience: 27 years

1. **Senior Professor**, P.G. Department of Studies in Biotechnology & Microbiology, 29 October 2023 till date.
2. **Professor (Selection Grade)**, P.G. Department of Studies in Biotechnology & Microbiology, 29 October 2013- 29 October 2023.
3. **Principal**, The Oxford College of Science, Bangalore Sept. 2012 to October 2013
4. **Professor and Head**, P.G Dept. of Biotechnology, The Oxford College of Science, Bangalore, from 2010 -2012.
5. **Reader and Head**, P.G. Dept. of Biotechnology, The Oxford College of Science, Bangalore, from March 2002 – Jan.2010.

6. **Lecturer, P.G.** Dept. of Biotechnology, The Oxford College of Science, Bangalore, from July 2000 – Feb. 2001
7. Guest lecture, P.G. Dept. of Biotechnology, Gulbarga University, Gulbarga, from 1996- 2000.

Administrative Experience

1. **Professor and Chairman, Chairman BoS**, Dept. of PG Studies and Research in Biotechnology and Microbiology, 10th December 2021 to 9th December 2023
2. **Professor and Chairman, Chairman BoS**, Dept. of PG Studies and Research in Biotechnology and Microbiology, Karnatak University, December 2013-December 2017.
3. **Director**, Karnatak University Printing Press, 16th July 2018 till date
4. **Coordinator**, Department of Applied Genetics, Karnatak University, Dharwad, October 2018 to Feb.2022
5. **Nodal Officer, Karnatak University, COVID Cell, May 2020 till date**
6. **Member, BoS, P G** Department of Studies in Genetics and Genomics, University of Mysore, Mysore, 31-05-2022 till date
7. **Member, BoS, P G** Department of Studies in Microbiology, Davanagere University, Davanagere, 31-05-2022 till date
8. **Member, BoS, P G** Department of Studies in Microbiology, Bangalore University, Bangalore, 25-02-2021 till date
9. **Member, BoS, P G** Department of Studies in Microbiology, Mangalore University, Mangalore, 19-10-2019 till date
10. **Member, BoS**, SDM Institute for Biomedical Sciences, Shri Dharmasthala Manjunatheshwara University, Dharwad June 2020 to May 2023.
11. Nominated by His Excellency Governor of Karnataka for scrutinizing applications and selection for the award of Honorary Doctorate Degree of University of Mysore, Mysore and Gulbarga University, Kalaburgi for the year 2017-18, 2018-19.
12. **Member** Academic Council, P.C. Jabin College (Autonomous), Hubli, Karnataka
13. **Member-** Academic Council, Govt. First Grade College (Autonomous), Karwar, May 2018 till date.
14. **Coordinator**, DBT -IPLS programme an interdisciplinary project Sponsored by DBT, Govt. of India, New Delhi (Sanctioned Amount Rs. 10.5 Crore) 2014 till date.
15. **Coordinator**, KU-Innovation and Incubation Centre, Karnatak University, Dharwad April 2017 till date.
16. **DBT Nominee of IBSC** Navya Biological, Hubli 2017- till date.

17. Coordinator, DST-FIST Programme, sanctioned to Department of Biotechnology and Microbiology 2017-2018.
18. President, Post Graduate Gymkhana, Karnatak University, Dharwad, June 2017 to July 2018
19. **Member-DST-PURSE** Project implementation Committee, Karnatak University, Dharwad 2016 till date.
20. **Member-Atal Incubation Centre**, Karnatak University, Dharwad a prestigious project of NITI Ayoga, Govt. of India.
21. NAAC Assessor to Assess and Accreditate Colleges and Universities in India from 2014 till date.
22. **Member of Core Committee- IQAC cell**, Karnatak University, Dharwad.
23. **Member (External) BOS**, Dept. of PG Studies and Research in Biotechnology, Bengaluru Central University, Bengaluru, May 2018 till date
24. **Chief Coordinator-** Central Valuation of PG-II and IV semester of Science faculty for the year 2015-2016.
25. **Member (External), BOS**, Dept. of PG Studies and Research in Biotechnology, Gulbarga University, Gulbarga, 2014-17 (3 years).
26. **Member (External), BOS**, Dept. of PG Studies and Research in Microbiology, Mangalore University, Mangalore December 2019 to December 2022 (3 years).
27. **Member (External), BOS**, Dept. of PG Studies and Research in Biotechnology, Tumkur University, Tumkur 2015-18 (3 years).
28. **Member (University Nominee)**, BOS in PG Biotechnology, P.C. Jabin Science College (Autonomous), Hubballi.
29. **Member (External) BOE, Dept. of Biotechnology and Microbiology, Mysore University, Gulbarga University, Tumkur University** from 2014 -2015 and 2017-18 (Mysore).
30. **External Member:** IQAC advisory Committee, Karnataka State Women's University, Vijayapura, 2016 till date.
31. **Principal**, The Oxford College of Science, Bangalore Sept. 2012 October 2013.
32. **Professor and Head**, Dept of Biotechnology, The Oxford College of Science, Bangalore, from Feb. 2010 – Aug. 2012.
33. **Director**, P.G. Studies, The Oxford College of Science, Bangalore, from 2011-2012.
34. **Coordinator**, BT Finishing School programme (Govt. of Karnataka sponsored programme), The Oxford College of Science, Bangalore, 2011 -2013.
35. **Principal Investigator**, VGST-CISE project, The Oxford College of Science, from 2012 -2013.
36. **Co-ordinator, Mission Monitoring Cell and IQAC**, The Oxford College of Science, Bangalore, from 2009 -2013.
37. **Reader and Head**, Dept. of Biotechnology, The Oxford College of Science, Bangalore, 2002 –2010.

38. **Co-ordinator**, Postgraduate Dept of Life Sciences, The Oxford College of Science, Bangalore, 2002 to 2011.
39. **Member**, BOS in Biotechnology, Kuvempu University, Shimoga, 2010 to till date.
40. **Chairman**, BOE in Biotechnology (UG) for the academic year 2006-2007 & 2011-2012.
41. **Member, BOS** in Biotechnology (UG), Tumkur University, Tumkur, Karnataka, from 2005-2008.
42. **Member**, BOE in Biotechnology constituted by Bangalore University to conduct Wrist while Rai University M.Sc. and B.Sc., Examinations, from 2004-2005.
43. **Member**, BOE in Biotechnology (UG), Bangalore University, Bangalore, from 2003-2004.
44. **Member**, BOE in Genetics (UG), Bangalore University, Bangalore, 2007-08, & 2009-10.
45. **Member Governing Council**, The Oxford College of Science, Bangalore from 2010 -2013.
46. **Member**, Governing Council, Shree Swaminarayan Gurukul Institute of Science & Management, Bangalore, from 2006 to 2011.
47. **Dy. Chief Superintendent, PG & UG Examinations**, Bangalore University, Oxford Institutions Center, 2001 -2013.
48. External Examiner and paper setter, Mysore University, Kuvempu University, Gulbarga University, Manipal University, Davanagere University.
49. **President**, Society of Biotechnology, Gulbarga University, Gulbarga, June 1998- June 2000.
50. **General Secretary**, Alumni Association, Department of Biotechnology, Gulbarga University, Gulbarga from 2008 till date.
51. **Chief Editor, BIOVISTAS** (half yearly Biotechnology magazine from The Oxford College of Science, Bangalore from 2004 till date.
52. **Editor, BIOHORIZON**, Bulletin from Department of Biotechnology, Gulbarga University, from 1999-2000.
53. Organizing Secretary, Jnanarjana, Two days National Symposium of 2005, 2006, 2007, 2010 & 2012.
54. **Member of the National Organizing Committee**, 11th Annual Conference on Indian Botanical Society, School of Studies in Botany, Jiwaji University, Gwalior (M.P) from 28th -30th Nov. 2007.

Research Experience

1. **Junior Research Fellow** (DBT sponsored project), P.G. Department of Biotechnology, Gulbarga University, Gulbarga, from 1995-1998

2. **Research Associate** (DBT sponsored project), P.G. Department of Biotechnology, Gulbarga University, Gulbarga, from 1999-2000
3. **M.B. Tech, Project Topic**, Tissue culture of tomato and mass cultivation and in vitro assay *Trichoderma* against various soil borne pathogens. Rallies Agrochemical Research Station, Bangalore from April 1995- June 1995.

Research Guidance

Doctor of Philosophy- 06

Sl. No.	Name	Title of the Thesis	Year
1	Kanuri Tarakaram	Isolation and characterization of analogs of <i>Adriamycin</i> from Cauvery basin	2010
2	Arun K Shettar	Isolation and Characterization of Bioactive compounds from selected plants of Western Ghats and evaluating their anti-cancer potency against lung cancer.	2017
3	Badarinath D. Kulkarni	Neuropharmacological evaluation of phytoconstituents from <i>Aegiceras corniculatum</i> L. Blanco.	2020
4	Muntaj Shaik	A study on molecular and <i>In-Silico</i> analysis of Glutamic academia type I patients in India	2020
5	Parveen Nadaf	Microbial production of L-arginase and its anticancer potential	2021
6	Renuka Bali N	Bioprospecting of fungal secondary metabolites against Multi-Drug resistant Bacteria	2021
7	Varsha S L	Biogenic synthesis and physicochemical characterisation of endophytic fungal nanoparticles from mangrove associate <i>Premna serratifolia</i> L.	2024
8	Annapuraneshwari M Hongal	"Phytochemical mediated biogenic synthesis of silver nanoparticles from <i>Alangium salvifolium</i> (L.f.) Wang. and its anticancer properties."	2025
9	Vidyashree Ilkal	Bioprospecting of bioactive metabolites from endophytic fungi isolated from endangered medicinal plant <i>Celtis philippensis</i> Blanco. and their pharmacological evaluation	2026
Presently 08 Candidates are perusing Ph.D. under my guidance			

Master of Philosophy-20

Sl. No.	Name of the Student	Title of the Thesis	Year
1	Vani B	Study of plant secondary metabolite and their extraction from <i>Centella asiatica</i> a medicinal herb	2005
2	Mamatha J	In vitro regeneration and Biotechnological improvement of <i>Vigna radiata</i> (L). R. Willczek. -2007.	2006
3	Manjula Shenoy	In vitro manipulation of <i>Nicotiana tobaccum</i> L. Using Calcium dependent Phospholipids binding protein annexin gene through pGPTV and pTi of <i>Agrobacterium tumefaciens</i> .	2006
4	Geetha Rani B. S.	Biocontrol of damping off, timber rot and wilt of <i>Lycopersicon esculentum</i> using <i>Trichoderma viride</i> .	2006
5	Mangala	Isolation, screening and strain improvement of amylase producing microorganism	2007
6	Reena Bhat	Standardization of method of preparation of yoghurt and bio yoghurt from skim milk using fat replacers.	2007
7	Salomi R	Evaluation of chlorophyll A, chlorophyll B and total carotenoid content in <i>Spirulina</i> cultured under different C/N ratios	2007
8	Harish, A	Studies on in vitro effect of cytokinins and coconut milk on <i>Decalepi shamiltonii</i> W& A	2007
9	Sangeetha Sajjan	Evaluation of antimicrobial activity of <i>Momordica cymbalaria</i>	2007
10	Chetana Heroor	Evaluation of antimicrobial activity of extracts of <i>Nigella sativa</i>	2007
11	Pushpa P. K.	Extraction, evaluation and study of antibacterial activity of phytoextracts in <i>Alangiumlamarkii</i> Thwaitis plant	2007
12	Prem Kumari B.	In vitro seed germination of <i>Lavandulastoechas</i> L.	2007
13	Aruna Kumari G.	Screening of cellulolytic fungi and its industrial applications	2007
14	Jagadessh H. K.	Immunological Techniques	2007

15	Mr. M. K. Rajni	Estimation of DNA and protein content in <i>Bursa fabricus</i> and Cecal tonsils of Chicks afflicted with Aflatoxin B.	2007
16	Shilpa J	Studies on isolation, screening, characterization and treatment of seed borne mycoflora of chilli and <i>sorghum</i>	2008
17	V. Sudharsan	Studies on the effect of salt in the growth of <i>Vigna mungo</i> in tissue culture conditions	2008
18	Malavika K.	Transformation of tobacco plants using Annexin gene through <i>Agrobacterium</i> mediated gene transfer.	2008
19	Raghunath N.	Isolation, purification, characterization and comparative study of peroxidase from different plant sources.	2008
20	K.A. Vijayalakshmi	Enumeration and characterization of Bacteria in fuel contaminated soil.	2008

Research Projects

1. Coordinator, DBT -IPLS programme an interdisciplinary project Sponsored by DBT, Govt. of India, New Delhi (Sanctioned Amount Rs. 10.5 Crore).
2. Coordinator: Establishment of Biotechnology Finishing School, Department of IT, BT and S&T, Govt. of Karnataka, Rs. 1.0 Crore.
3. Principal Investigator: Micropropagation and pharmacological investigation on of *Alstonia scholaris*, VGST-Department of IT, BT and S&T, Govt. of Karnataka, Rs. 30.0 Lakhs.
4. Co-Investigator: Plant Health Care and Diagnostic Centre for Northern Karnataka funded by VGST-Department of IT, BT and S &T, Govt. of Karnataka, Rs. 30.0 Lakhs.
5. Responsible for receiving Grant Rs. 3.0 Lakhs for conduct National Science Celebration from Karnataka Science & Technology Academy, Dept. of Science & Technology, Govt. of Karnataka, Bangalore.

Awards/Honors received

1. **Received Best Research Publication in Science-2025 Award**, instituted by Karnatak University, Dharwad for the paper titled; Silver nanoparticles mediated apoptosis and cell cycle arrest in lung cancer A549. *3 Biotech*. Springer International Publishing, 14:238. <https://doi.org/10.1007/s13205-024-04064-w>.
2. **Received Best Research Publication in Science-2025 Award**, instituted by Karnatak University, Dharwad for the paper titled; GCMS-based phytochemical profiling and in vitro pharmacological activities of plant *Alangium salvifolium* (L.f) Wang. *Future Journal of Pharmaceutical Sciences*, 10:61, pp1-19. <https://doi.org/10.1186/s43094-024-00631-3>.

3. Received Best Research Publication in Science-2019 Award, instituted by Karnatak University, Dharwad for the paper titled "Is Expanded Newborn Screening Adequate to Detect Indian Biochemical Low Excretor Phenotype Patients of Glutaric Aciduria Type I?".
4. Invited by Nanjing Agriculture University, China as Molecular Biology expert in Viticulture for discussion on planned International Research Collaboration for Sino-Indo Grape Science and Technology Centre under one route and one belt concept. Visited China from 22-31st May 2018.
5. Received Best Research Publication in Science-2015 Award, instituted by Karnatak University, Dharwad for the paper titled "Evaluation of *in vitro* antioxidant and anti-inflammatory activities of *Ximenia Americana* extracts", Published in Elsevier Journal-Asia Pacific Journal of Tropical Disease.
6. Co-author of 2nd Best oral presentation awarded during UGC sponsored National Conference 2015 at P.C. Jabin College, Hubli, Karnataka.
7. Co-author of the 1st Best Poster presentation, awarded during ICEBSR 2012 at Sridevi Institute of Engineering & Technology, Tumkur.
8. Co-author of the 2nd Best Poster presentation, awarded at Jnanarjana 2012 held at The Oxford College of Science, Bangalore.
9. Elected Fellow Member of National Environmentalists Association (FNEA).
10. Fellow Member of International Society of Biotechnology (FISBT).
11. Co-author of the Best poster award selected at National Conference on Biotechnology for rural and industrial development, Department of Biotechnology, Gulbarga University, Gulbarga, 17-19 January 2008.
12. Co-author of the Best paper award selected at National Symposium on Role of Life Sciences in Climate Change and Global Warming, Visweswarapura College of Science, Bangalore, 19-21 Feb 2009.
13. Co-author of the Best poster award selected at National symposium on role of life sciences in human welfare Department of Biotechnology and Zoology, V.V. Pura College of Sciences, Bangalore. 21-23 February 2008.
14. Co-author of the Best Poster award selected at Conference on recent trends in genomics and proteomics. Organized by Dept. of Microbiology and Biotechnology, Bangalore University and Indian Academy Degree College. May 26-27, 2011.

Patents

1. **Application No. 202521118310A (Date of Publication: 09.01.2026). Inventors:** Dr. Ratna Vivek Panvekar, Dr. Ananth Aparna Sumanjali, Dr. Shankar Rao Munjam and **Dr. Vedamurthy A B., Title of the invention:** AI assisted Microwave Dielectric properties of seeds for quality control: The Patent Office Journal No. 02/2026 Dated 09/01/2026, page No. 5931
2. Application No.202641086469A. **Name of Inventors: Dr. Vedamurthy A.B. and Dr. Mahalakshmi S. Patil.** Title of the invention: A Non-Dairy Synbiotic Frozen Dessert and the Method Thereof. *Official Journal of the Patent Office.* Issue No. 29/2026 Dated 17/07/2026, page no.88758

Book Publication

1. Mahesh S. and **Vedamurthy A.B., Biotechnology-4:** A text book of Biotechnology for under graduate students, **New Age International Publisher, New Delhi 2002.**

Book Chapters

1. **A.B. Vedamurthy**, Sudisha Jogaiah and S.D. Shruthi (2021). Biopesticides Volume 2: Advances in Bio-inoculants, Edited Book, Chapter-15: Insights into the genomes of microbial biopesticides, Woodhead Publishing (ELSEVIER): 225-232
2. **A.B. Vedamurthy**, S.L. Varsha, and S.D. Shruthi (2020), Biocontrol Agents and Secondary Metabolites, **Chapter-29:** Regulatory requirement for commercialization of biocontrol agents: ELSEVIER Publisher: 659-675
3. **A.B. Vedamurthy**, Sourav Bhattacharya, Arijit Das and S.D. Shruthi (2020), Advances in Nano-Fertilizers and Nano-Pesticides in Agriculture: Chapter-20: Exploring nonmaterial's with rhizobacteria in current agricultural scenario, ELSEVIER Publisher: 487-498.

Research Publications

1. Laxmi A. Jagatap, Ramesh Vadavi, Shivaraj S. Dollia, Vidyashree Ilkal, **Vedamurthy Ankala Basappa**, Satish S. Bhat, Oruganti Anjaneyalu and Kalagauda Gudasi (2026). Coordination behavior and biological potential of Co(II), Cu(II), Ni(II) and Zn(II) complexes of 2-substituted quinoline hydrazone ligands. *Journal of Coordination Chemistry.* pp.1-16
<https://doi.org/10.1080/00958972.2026.2699992>.

2. Praveen Komaranahalli, Praveen Satapute, H.C. Vaishnavi, Savitha De Britto, **Ankala Basappa Vedamurthy**, Sudisha Jogaiah (2026). Seed biopriming with *Trichoderma*-secondary metabolites promotes plant growth and enhances protection against *Verticillium* wilt disease in okra. *Journal of Natural Pesticide Research*, Volume 18, December 2026, 100212. <https://doi.org/10.1016/j.napere.2026.100212>
3. Vidyashree Ilkal, Arun Shettar, Joy Hoskeri, **Vedamurthy Ankala Basappa** (2026). Endophytic *Pleosporales* sp. from *Celtis philippensis* Blanco: Molecular characterization and secondary metabolite profiling by GC-MS. *MAYDICA Journal*. Vol. 08, Issue:02:121-138
4. Vidyashree Ilkal, Arun Shettar, Joy Hoskeri, **Vedamurthy Ankala Basappa** (2026). Bioprospecting fungal endophytes from *Celtis philippensis* Blanco for unveiling the bioactive compounds and their pharmacological activities. *Total Environment Microbiology*, Published by Elsevier B.V: 1-13
5. Amritha G. Kulkarni, **A.B. Vedamurthy et al** (2026). Isolation, screening and characterization of cadmium tolerant bacteria from industrial effluent. *European Journal of Biomedical and Pharmaceutical sciences*, Volume 13, Issue 1, 184-198.
6. Annapurneshwari M Hongal, Arun K Shettar, Joy H Hoskeri, AB Vedamurthy (2024). Silver nanoparticles mediated apoptosis and cell cycle arrest in lung cancer A549. *3 Biotech*. Springer International Publishing, 14:238. <https://doi.org/10.1007/s13205-024-04064-w>
7. Annapurneshwari M. Hongal, Arun K. Shettar, Joy H. Hoskeri and **A. B. Vedamurthy** (2024). GCMS-based phytochemical profiling and in vitro pharmacological activities of plant *Alangium salvifolium* (L.f) Wang. *Future Journal of Pharmaceutical Sciences*, 10:61, pp1-19. <https://doi.org/10.1186/s43094-024-00631-3>
8. Varsha SL, Arun K Shettar, Joy H Hoskeri, Vedamurthy AB (2024). In-vitro Pharmacological activity of Endophyte *Aspergillus austwickii* isolated from leaves of *Premna serratifolia*. *Archives of Razi Institute*,
9. S.L. Varsha, Arun K. Shettar, Joy H. Hoskeri and **A.B. Vedamurthy (2024)**. *In vitro* Biomedical Application of Endophytic *Aspergillus melleus* Isolated from Leaves of *Premna serratifolia* L. *J Pure Appl Microbiol*, 18(2):1126-1136. doi: 10.22207/JPAM.18.2.32
10. Sandeep H Huded, Amritha G Kulkarni and **Vedamurthy A B** (2023). Phytochemical screening and antibacterial activities in leaf extract of *Psidium guajava* (GUAVA). *International Journal of Recent Scientific Research*. Vol. 14, Issue, 01 (A), pp. 2836-2840.
11. Pooja. R, Y.L. Ramachandra, Padmalatha. S. Rai, Kumar Hegde B. A, **Vedamurthy. A.B** (2022). *Evaluation of in vitro antioxidant and free radical scavenging activity of*

leaf and twig endophytic fungal extract from *Mappia foetida*. *Journal of Science and Technology*, Volume 7, Issue 03:68-79

12. Renuka Bali N., Chethan J. Dandin, **Ankala Basappa Vedamurthy (2020)**. 'Screening of Fungal isolate against clinical isolates of *Staphylococcus aureus* by Co-culture Assay for Novel Antimicrobial Compounds.' *Journal of Advanced Scientific Research* 11(3) Suppl. 7 :113-117.
13. Renuka Bali N., Chethan J. Dandin, **Ankala Basappa Vedamurthy (2021)**. 'Elicitation of Bioactive molecule by Screening of Fungal Secondary metabolites against MDR *Staphylococcus aureus*' in *International Journal of Current Research and Review*, Elsevier Publisher, Accepted for Publication
14. Mane RS, Anand MK, Vedamurthy AB. (2020). Therapeutic applications of bioactive compounds obtained by endophytic *Thielaviopsis basicola* isolated from *Ximenia americana*, Western Ghats of India. *Journal of Microbiology, Biotechnology, and Food Sciences*, 9(5): 870-878.
15. Mane RS, Vedamurthy AB. (2020). A new RoVe method to purify endophytic fungi from medicinal plants Western Ghats of Karnataka India. *International Journal of pharmaceutical sciences and nanotechnology*, 13(4): 5011-5019.
16. Rohit Shankar Mane, Ankala Basappa Vedamurthy. (2020). Critical review on *Bombax ceiba*, *Aloe vera* and *Ximenia americana*. *Universal Journal of Pharmaceutical Research* 2020; 5(2):65-67.
17. Mane RS, Vedamurthy AB. (2020). Mycochemical analysis and anticancer activity of endophytic *Aspergillus nomius* against MCF7 human breast cancer cell line. *International Journal of Pharma and Bio Sciences*, 11(2), b1-b6.
18. Mane RS, Vedamurthy AB. (2020). Protection of *Bombax ceiba* by revealing their fungal endophytic diversity and therapeutic applications. *International Journal of Life Science and Pharma Research*, 10(2): L18-25.
19. Rohit Shankar Mane, Farzana Ashrafi Neela, Ankala Basappa Vedamurthy. (2020). Characterization of Endofungus *Aspergillus nomius* EF8-RSM Isolated from *Aloe vera* Western Ghats of Karnataka India. *Research and Reviews: A Journal of Pharmaceutical Science*, 11(1): 22-30.
20. Rohit Shankar Mane, Ankala Basappa Vedamurthy. (2020). Physiology of Endophytic *Aspergillus nomius* EF8-RSM Isolated from *Aloe vera* Western Ghats of Karnataka India. *Asian Journal of applied Sciences*. 13(1): 32-39.
21. Mane RS, Vedamurthy AB. (2020). Structure elucidation and therapeutic applications of endophytic fungi derived bioactive compounds obtained from *Ximenia americana* Western Ghats of Karnataka India. *International Journal of Pharmaceutical Science & Research*, 11(1): 212-25.
22. Rohit Shankar Mane, Ankala Basappa Vedamurthy. (2019). Brief review on *Lantana camera*. *International Journal of Secondary Metabolites*, 6(2), 205-210.

23. Kulkarni BD, Hoskeri JH, **Vedamurthy AB** (2019). Neuroprotective and anti-inflammatory activities of *Aegiceras corniculatum* (L.) Blanco. *Phcog Res*, 11:260-6.
24. B.D. Kulkarni, J. H. Hoskeri and **A.B. Vedamurthy (2019)**. Evaluation of Analgesic activity of *A. corniculatum* L. Blanco. leaves extracts, *J. Pharm. Sci. & Res.*11(8), 2862-2865.
25. Muntaj Shaik, Kruthika-Vinod T. P., Mahesh Kamate & **Vedamurthy A. B.** (2019). Is Expanded Newborn Screening Adequate to Detect Indian Biochemical Low Excretor Phenotype Patients of Glutaric Aciduria Type I?. *The Indian Journal of Paediatrics*. 86(11):995-1001.
26. Muntaj Shaik, Mahesh Kamate¹, Kruthika-Vinod T.P.², **Anakala Basappa Vedamurthy** (2019). A Low-Excretor Biochemical Phenotype of Glutaric Aciduria Type I: Identification of Novel Mutations in the Glutaryl CoA Dehydrogenase Gene and Review of Literature from India. *Annals of Indian Academy of Neurology*. IP: 14.139.159.99
27. P. D. Nadaf, A. G. Kulkarni and A. B. Vedamurthy (2019). **Isolation, screening and characterization of L-arginase producing soil Bacteria.** *International Journal of Pharmaceutical Sciences and Research*, Vol. 10(7): 3440-3444
28. **Amritha. G. Kulkarni and A. B. Vedamurthy (2019)**. Studies on phytochemical screening and antimicrobial activity in leaf and flower extracts of *tridax procumbens* linn. *International Journal of Recent Scientific Research*. 10(06)(A), pp. 32693-32702.
29. Ankala Basappa Vedamurthy and Rohit Shankar Mane. (2018). The fungal endophytes: Sources and future Prospects. *Journal of Medicinal Plants Studies*, 6(2), 121-126.
30. Ankala Basappa Vedamurthy, Rohit Shankar Mane and Padmaa Milaap Paarakh. (2018). Brief review on Fungal Endophytes. *International Journal of Secondary Metabolites*, 5(4), 288-303.
31. Amritha G Kulkarni, Akshata Naik, Chetan Halenaik, Sahana Durgekar, Sheetal Naik, Shivakantkumar Adhikari, Sonali Chichankar and **A.B. Vedamurthy** (2017). Bioremediation of Hexaconazole by Soil Isolate - *Stenotrophomonas maltophilia*. *International Journal of Science and Research Methodology*. 8 (1): 198-210.
32. Kruthika-Vinod T.P, Shaik Muntaj, K. S. Devaraju, M. Kamate and **A.B. Vedamurthy** (2017). Genetic Screening of Selected Disease- Causing Mutations in Glutaryl-CoA Dehydrogenase Gene among Indian Patients. *Journal of Pediatric Genetics*. 6, 142-148.
33. Amritha. G. Kulkarni and **A.B. Vedamurthy** (2017). Isolation, characterization and optimization of Lipase produced from Bacteria. *Research Journal of Science and IT Management*. Volume: 07 (03), 20-37.

34. A.K. Shettar, M.K. Sateesh, B.B. Kaliwal, **A.B. Vedamurthy** (2017). *In-vitro* anti-diabetic activities and GC-MS phytochemical analysis of *Ximenia americana* extracts. *South African Journal of Botany*, Elsevier Publishers111 (2017) 202-211.
35. Arun Kashivishwanath Shettar and **Ankala Basappa Vedamurthy** (2017). Evaluation of Antidiabetic Potential of *Kandelia candel* and *Rhizophora apiculata*-An In Vitro Approach. *International Journal of Pharmaceutical Sciences and Research*, 2017; Vol. 8(6): 1000-09.
36. Arun Kashivishwanath Shettar and **Ankala Basappa Vedamurthy** (2017). Studies on *In vitro* Antidiabetic Activities of *Hopea Ponga* and *Vitex leucoxylon*. *International Journal of Pharmacy and Pharmaceutical Sciences*. Vol 9, Issue 2, 201
37. Arun Kashivishwanath Shettar and **Ankala Basappa Vedamurthy** (2017). An *in-vitro* approach for evaluating anthelmintic activity of *Kandelia candel* and *Rhizophora apiculata*. *Journal of Pharmacognosy and Phytochemistry*, 6(1): 05-09
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15. Mayank Agrawal, Pramoditha Sruthy C, Yashwantha Kumar D R, Vurivi Hema, **Vedamurthy A B**, Krishna V and Joy Hoskeri H (2012). *Manilkara zapota* seed extract: A potent Anthelmintic agent at Jnanarjana 2012, The Oxford College of Science, Bangalore. 27- 28th Feb. 2012.
16. Nisha P V, Shruthi Nagaraj, Sweta K Swamy, Meera Kumari, Vedamurthy **A. B.**, Krishna V and Joy Hoskeri H (2012). Anthelmintic activity of *Pyrostegia venusta* using *Pherithemaposthuma* at Jnanarjana 2012, The Oxford College of Science, Bangalore. 27- 28th Feb. 2012.
17. Meera Kumari, **Vedamurthy A. B.** and Joy Hoskeri H. (2012) *Leucasaspera* –a potent medicinal plant: A review at Jnanarjana 2012, The Oxford College of Science, Bangalore. 27- 28th Feb. 2012
18. Jyoti S, Jayati Bhowal, Shweta K Swamy, **Vedamurthy A.B.**, Ramachandra Y L, Sateesh M K and Shruthi S D (2011). Antimicrobial activities of *Kirganelia reticulate* extracts against pathogenic mrsa. Conference on recent trends in genomics and proteomics. Organised by Dept. of Microbiology and Biotechnology, Bangalore University and Indian Academy Degree College. May 26-27, 2011.
19. Shivaji B Bole, Nargund L.V.G, Devaraju K S, **Vedamurthy A.B.**, Ashwini M, Siniramadas (2011). Synthesis of substituted Fluoropyrazoles for antibacterial and anti-oxidant activity. Conference on recent trends in genomics and proteomics. Organised by Dept. of Microbiology and Biotechnology, Bangalore University and Indian Academy Degree College. May 26-27, 2011.
20. Shivaji B Bole, Nargund L.V.G, Devaraju K S, **Vedamurthy A.B.**, Shruthi N, Vivekananda Reddy (2011). Synthesis *In vivo* and silico anti-inflammatory studies of substitute Fluoro Pyrazole. Conference on recent trends in genomics and proteomics. Organised by Dept. of Microbiology and Biotechnology, Bangalore University and Indian Academy Degree College. May 26-27, 2011.
21. Reena Bhat and **Vedamurthy A.B.** (2010), Standardization of method of preparation of yoghurt and bio yoghurt from skim milk using fat replacers.

- Jnanarjana-2010 a National symposium on Molecular innovations in food Processing and Food safety management and awareness programme on career prospectus and Business opportunities in food processing. Organized by The Oxford College of Science, Bangalore and IICPT, Thanjavur, 5-6th April 2010.
22. Sourav Bhattacharya, Arijit Das, Nagananda G.S, Shilphi Bhardwaj and **Vedamurthy A.B. (2010)** Microbial Analysis of pani puri sold by street vendors in Bangalore city. Jnanarjana-2010 a National symposium on Molecular innovations in food Processing and Food safety management and awareness programme on career prospectus and Business opportunities in food processing. Organized by The Oxford College of Science, Bangalore and IICPT, Thanjavur, 5-6th April 2010.
 23. **Vedamurthy A.B. (2010)** Evaluation of microflora in hydrocarbon contaminated soil. UGC sponsored National seminar on Environmental Hazards in 21st Century. Organized by K.L. E's Society's Gudleppa Hallikeri College, Haveri, Karnataka 22&23rd October 2010.
 24. **Vedamurthy A.B (2009)** Effect of red rot toxin on *in vitro* shoot differentiation. National symposium on Role of Biology and Biotechnology in Conservation of Biodiversity and sustainable Development. Organized by Department of Post Graduate Studies and Research in Botany, Gulbarga University, Gulbarga, 22nd to 24th December 2009.
 25. Vijayalakshmi K.A., Sudha Rao and **Vedamurthy A.B. (2009)** Evaluation microflora in petrol contaminated soil: National conference on present scenario of environmental pollution and its effect on living organism. Organized by Dept. of Zoology, Govt. College of Arts and Science in collaboration with National Environmentalist Association. Aurangabad. 9th-11th Dec.2009.
 26. Chetana S.H., Sangeeta Sajjan, and **Vedamurthy A.B. (2008)** Evaluation of antimicrobial activity of *Nigella sativa*: National Conference on Biotechnology for rural and industrial development. Department of Biotechnology, Gulbarga University, Gulbarga. 17-19 January 2008. Awarded best poster
 27. Vijayalakshmi K.A., Sudha Rao and **Vedamurthy A.B. (2009)** Enumeration and characterization of bacteria in petrol contaminated soil, National Symposium on Role of Life Sciences in Climate Change and Global Warming, Visweswarapura College of Science, Bangalore, 19-21 Feb2009. Received Young Scientist Awarded
 28. Mamatha J., Sateesh M.K. and **Vedamurthy A.B (2008)**. *In vitro* regeneration and biotechnological improvement of *Vigna radiate* (L.) R. Wilczek for salt

- tolerance. National symposium on role of life sciences in human welfare: 21-23 February 2008. Department of Biotechnology and Zoology, V.V. Pura College of Sciences, Bangalore. Awarded best poster
29. Rakesh R., Bhaskar K., **Vedamurthy A.B.**, and Somashekar R. (2008) Mushroom cultivation- A rural industry. National Conference on Biotechnology for rural and industrial development: 17-19 January 2008, Department of Biotechnology, Gulbarga University, Gulbarga.
 30. Sangeeta Sajjan, Chetana S.H. and **Vedamurthy A.B.** (2008) Antimicrobial activity of *Momordica cymbalaria*, National Conference on Biotechnology for rural and industrial development: 17-19 January 2008, Department of Biotechnology, Gulbarga University, Gulbarga.
 31. Vani B and **Vedamurthy A.B.** (2008). In vitro analysis of flavanoids from *Centella asiatica*- a medicinal herb, National symposium on role of life sciences in human welfare: 21-23 February 2008. Department of Biotechnology and Zoology, V.V. Pura College of Sciences, Bangalore.
 32. Sateesh M.K., **Vedamurthy A.B.**, and Shankar Bhat S. (2007) Eco-friendly approach for control of doctor plant's (Neem) die-back disease: National Conference on Medicinal and Aromatic Plants, 10-12 December 2007, Department of Botany, Gulbarga University, Gulbarga.
 33. **Vedamurthy A.B.**, & **Naik G.R.**, (2006), ¹⁴C-glucose uptake studies in sugarcane callus: Indian Science Congress, January 3-4th, Hyderabad, India.
 34. Naik G.R., Prasad V, Rama Chandra Murthy, T.T.S and **Vedamurthy A.B.** (1995) Studies in selection of disease resistant sugarcane lines through cell and tissue culture: National Seminar for Rural and Industrial Development. December 22-23, 1995, Gulbarga University, Gulbarga.
 35. **Vedamurthy A.B.**, Kulkarni, V.M., Sharma, N.N. and Chandrashekar, M. (1995) *In vitro* study of antagonistic activity of *Trichoderma* isolates against soil borne pathogens: National Seminar on Biotechnology for Rural and Industrial Development, Dec.22-23 1995, Gulbarga University, Gulbarga.
 36. **Vedamurthy A.B.** (1998) Varietal resistance expression of red rot toxin in sugarcane Variety CoC 671 and Co 740: In VIIth. All India Conference on Cytology and Genetics and Symposium on Molecular Genetics and Biotechnology 26-28 October 1998, Gulbarga University, Gulbarga.

National & International Conference Attended

1. International conference, 7th Bangalore INDIA NANO 2016. Organized by Department of IT, BT and S & T, Govt. of Karnataka, Bangalore 4-6th March. 2016

2. International conference, 7th Bangalore INDIA NANO 2014. Organized by Department of IT, BT and S & T, Govt. of Karnataka, Bangalore 4-6th Dec. 2014
3. National Seminar on Higher Education in India: Challenges of Expansion, Equity and Excellence (2014). Organized by Dept. of Political Science and Planning and Development section, Karnatak University, Dharwad. 22-23 April 2014
4. Bangalore India Bio 2013, Vision Group on Biotechnology and Dept. of IT/BT, Govt, of Karnataka. 4-6 Feb. 2013 at Lalith Ashok, Bangalore.
5. 5th Bangalore Nano 5-7th December 2012 at The Lalith Ashok, Bangalore
6. National Level conference on computational Biology, Pharmaceuticals and Life Sciences (NCCBL-2). Maharani Lakshmi Ammanni College for Women, Bangalore, November 23-24th 2012
7. National Conference on Biotechnology and Society at Dept. of Biotechnology and Bioinformatics, Kuvempu University, Shankaraghatta, Shimoga. 19th – 20th April 2012.
8. National Conference on Bioactive compounds & Therapeutics at The Oxford College of Science, Bangalore. 27th – 28th February 2012.
9. National Conference on Chemistry, Biotechnology & Healthcare at Dept. of Biotechnology Reva Institute of Science & Management, Bangalore. 24th – 25th November 2012.
10. Conference on Recent Trends in Genomics and Proteomics at Indian Academy College, Bangalore, 26-27th May 2011.
11. Lecture series on Advanced Biotechnology at The Oxford College of Science, Bangalore, 19th October 2011.
12. Lecture workshop on Biotechnological aspects of environmental degradation and protection, at The Oxford College of Science, Bangalore, 13-14th October 2011.
13. The Human Genome: Then and Now at the Centre for Human Genetics, Bangalore 15th to 16th 2011 December
14. Jnanarjana-2010 a National symposium on Molecular innovations in food Processing and Food safety management and awareness programme on career prospectus and Business opportunities in food processing. 5-6th April 2010.
15. UGC sponsored National Seminar on Environmental Hazards in 21st Century. Organized by K.L. E's Society's Gudleppa Hallikeri College, Haveri, Karnataka. 22&23rd October 2010.

16. National symposium on Role of Biology and Biotechnology in Conservation of Biodiversity and sustainable Development. Organized by Department of Post Graduate Studies and Research in Botany, Gulbarga University, Gulbarga, 22nd to 24th December 2009.
17. Immunocon 2009: International conference and 36th Annual meeting of the Indian Immunology Society. Organized by NIMHANS, Bangalore. 16-19th Dec.2009.
18. Present scenario of environmental pollution and its effect on living organism: National conference organized by Dept. of Zoology, Govt. College of Arts and Science in collaboration with National Environmentalist Association. Aurangabad. 9-11th Dec.2009.
19. Emerging trends in medicinal plants research: A two day UGC sponsored National conference conducted by Maharani's Science College for Women, Bangalore, India. 8 & 9th October 2009.
20. New horizons in insect pest management: A two day UGC sponsored National conference conducted by Gudleppa Hallikeri College, Haveri-581110, India. 6-7th March 2009.
21. Confluence-2009. A National symposium conducted by Indian Academy Group of Institution, Bangalore. 3-4th March 2009.
22. National symposium on role of life sciences in climate change and global warming: Dept. of Biotechnology and Zoology, Visweswarapura College of Science, Bangalore, 19-21st Feb.2009.
23. A National level symposium on impact of climate change on vector borne diseases- on the occasion of World Malaria day, JanarJana Foundation, Bangalore. 25th -26th April 2008.
24. National Conference on Biotechnology for rural and industrial development., Department of Biotechnology, Gulbarga University, Gulbarga. 17-19 Jan. 2008.
25. National conference on medicinal and aromatic plants, Department of Botany, Gulbarga University, Gulbarga. 10-12 December 2007.
26. The 12th Biological Sciences Graduate Congress 2007, Institute of Biological Sciences, University of Malaya, Kuala Lumpur, Malaysia., 17-19 December 2007.
27. National Seminar on National Knowledge Commission's Recommendations on Higher Education, Jnana Jyothi Auditorium, Central College, Bangalore. 19-20th September 2007.

28. 10th Ethnobiology Conference 2006, KKU University, Chiang Rai, Thailand. 5-9 November 2006.
29. National Workshop in Botanical Latin: Dr. S.G. Reddy College, Bangalore, 13-15th Jan 2006.
30. Indian Science Congress (ISC), Hyderabad, India. 3-4th Jan. 2006.
31. International Botanical Congress (IBC2005), Vienna University, Vienna, Austria. 17-23 July 2005.
32. Workshop on Bioinformatics, Reva Institute for Science and Technology Studies, Bangalore. 22nd Feb. 2003.
33. National Convention on Avenues in Biotechnology, Ministry of Small Scale Industries, Govt. of India, Mumbai. 9 – 10th Dec. 2003.
34. Seventh all India conference on cytology and genetics and symposium on molecular genetics and Biotechnology, Gulbarga University, Gulbarga. 26-28 October 1998.
35. One-day awareness programme on terminator gene technology: Gulbarga University, Gulbarga. 23rd Dec. 1998.
36. Workshop on Biotechnology, GENOME 96, NMKRV College, Bangalore. 25-28th Jan. 1996.
37. One-day seminar on University industry interaction: Gulbarga University, Gulbarga. 25th March 1996.
38. National seminar on Biotechnology for rural and industrial development, Gulbarga University, Gulbarga. 22-24 Dec. 1995.
39. Work shop on sugarcane tissue culture, Gulbarga University, Gulbarga. 2nd Sept. 1994.
40. Bio-HR Meet- Human Resource Guidelines and Requirement of the Biotech Industry, organized by ABLE (Association of Biotechnology Led Enterprises), Bangalore.

Research Training Programme

1. DST sponsored 2nd contact programme on Applications of Molecular Biology Techniques for crop Improvement, learnt basic molecular Biology techniques and development molecular markers for crop improvement, RFLP, RAPD, AFLP Techniques. Ch. Charan Singh University Meerut. 15-28th March 1998.

2. Vasantadada Sugar Institute, Pune: Learnt Micropropagation of Sugarcane and Green House Management, 31st July - 1st Aug. 1997.
3. Sugarcane Breeding Institute, Coimbatore: Learnt various immuno-techniques like ELISA and IFAT for early detection of red rot and smut disease, Marker studies in sugarcane, Basic pathological techniques, including isolation of red rot and smut pathogen, extraction of red rot toxin. 2- 7th Sept.1996.
4. Rallies Agrochemical Research Station, Bangalore: Undergone practical training/ project on Plant Molecular Biology, Plant Tissue culture and Bio control, 17th April to 17th June 1995.
5. Bangalore Genei Pvt Ltd., Bangalore: Learnt basic Molecular Biology Techniques like isolation of DNA, Plasmid DNA, Restriction digestion, cloning, transformation, Southern hybridization, Western hybridization, etc. 1998.-2001 (4 Years).
6. Department of Biotechnology, GKVK, Bangalore- Learnt protein purification techniques- purified proteinase inhibitor enzyme. Oct.2001.

Invited Lectures/talks

1. Delivered a key note lecture on “Silver Nanoparticles synthesized using Aqueous Leaf extract of *Ximenia Americana* as Nanomedicine in inducing cell death in non-small cell lung cancer via cell cycle arrest” at International Conference on Direct Digital Manufacturing and Polymers (ICDDMAP 2017) organized by Marinha Grande Portugal on 15th -18th May 2017.
2. Delivered a lead lecture on “Biotechnological Solutions for Sustainable Environmental Management: Challenges and Opportunities” at Second National Conference on Biotechnological Solutions for Environmental Management, Organized by Department of Studies and Research in Environmental Science, Tumkur University, Tumkur on 15th February 2018.
3. Delivered a special lecture on “Phytoremediation and Carbon Sequestration” at State Level National Seminar on Frontier of Science, Physics, Chemistry, Mathematics and Biological Sciences, Jagadguru Totadarya College, Gadag on 17th February 2018.
4. Delivered a lead lecture on “Bioremediation solutions for various pollutions” at two days National Conference on Recent Trend in Biotechnology 2018, Organized by Department of Chemistry and Biotechnology, Karnatak Science College, Dharwad on 23rd February 2018.
5. Delivered a special lecture on “Genes and Genetics” to High School teachers of Belgaum and Dharwad District organized by Dharwad District Science Center Karnatak University Campus, Dharwad on 26th February 2018.

6. Delivered a lead lecture on “Biotechnology in Biodiversity Conservation” at UGC sponsored State Level Seminar on Conservation of Biodiversity using Integrated Crop System organized by ADB College, Harapanahalli on 28th March 2018.
7. Delivered a special lecture on “Water Pollution and Biotechnology Management” organized by Society of Microbiology Gulbarga University, Kalaburgi for M.Sc. and Research Scholars on 11th April 2018.
8. Delivered a Special lecture on Career Prospectus in Biotechnology, Feb. 2016 at Karnataka Science College, Dharwad.
9. Delivered a Special lecture on Principles of Biotechnology December 2014 at GH College, Haveri.
10. Delivered a Key Note lecture on DNA Finger Printing and its Application (December 2006): one day national seminar: Oxford Engineering College, Bangalore.
11. Delivered a invited lecture on Application of DNA Finger Printing, December 2006: One day national seminar: Shree Swaminarayan Gurukul Institute of Science and Management.
12. Given Radio talk & TV interviews at Chitradurga All India Radio Station & ETV Kannada respectively.
13. Delivered Special Lecture on Plant Tissue Culture at STS High School, Telagabalu, Hospet for Bellary District High School Teachers, organized by District Science Centre. September 2005
14. Delivered Special Lecture on Biodiversity at STS High School, Telagabalu, Hospet for Bellary District High School Teachers, organized by District Science Centre. September 2006.

Membership of professional organization

1. Life Member, Indian Science Congress Association (L11812), Kolkata.
2. Life Member, National Environmentalists Association.
3. Life Member, International Society of Biotechnology.
4. Life Member, Association of Biotechnology and Pharmacy.
5. Treasurer (Elected), Indian Science Congress Association, Bangalore.
6. Member, Society of Cytologists and Geneticists, India (founded in 1965).

Visiting Faculty

1. Reva Institute of Science and Technology studies, Bangalore.
2. RPA College, Bangalore.

3. Institute of Bioscience and Molecular Biology, Bangalore.
4. Bionymph Life Sciences Pvt. Ltd, Bangalore.
5. Shree Swaminarayan Institute of Biotechnology, Bangalore.

Technical Consultant

1. Reva Institute for Science & Technology Studies, R.T.Nagar, Bangalore.
1. Bio-nymph Life Sciences Pvt. Ltd., Koramangala, Bangalore.
2. Institute of Bioscience & Molecular Biology, 4th Block, Jayanagar, Bangalore.
3. Narayana Hrudayalaya College of Science, Bangalore.

Techniques Specialized

SDS-PAGE, Gel electrophoresis, Southern and Western Blotting technique, DNA isolation, Genomic DNA and cDNA library construction, Plasmid isolation, mRNA isolation, PCR, Transformation, Restriction digestion, Ligation, Cloning, RFLP, RAPD's, Radio isotope techniques, Protein purification, Plant tissue culture, Protoplast isolation, Transformation in sugarcane, micropropagation, Biochemical techniques, Microbial and enzymology techniques, Coloum, Gel permeation and affinity chromatography techniques.

Equipment Handled

PCR (PTC-100, MJ Research), ELISA, Liquid Scintillation Counter (Wallace), Gel Documentation System, Different Electrophoresis Units, laminar Air Flow, High Speed Centrifuge (Sorval), Icematic, Fermantor (B.Braun) , Electroporator (BTX) , Gel Dryer (Genei), Transilluminator, Fluorescence Microscope etc.

Abstract of Ph. D Thesis (September 1995-October 1999)

Department of Biotechnology, Gulbarga University, Gulbarga, India

Ph.D. Mentor: Prof. G.R. Naik

Title: Studies for selection of disease resistant line in sugarcane through cell and Tissue culture.

Red rot pathogen from susceptible (infected) sugarcane variety CoC 671 was isolated. The broth culture was used to extract the toxin from the pathogen. Modified host extract medium yielded more toxin. The toxin was extracted with methanol, diethyl ether as well as 5% sodium carbonate. Pathogenicity of the partially purified toxin was confirmed by bio-assay studies using cut canes, sugarcane leaves and various seed crops. The plant tissue culture methodology for callus initiation, callus subculture, cell suspension culture, shooting and rooting of the callus and hardening of the regenerated seedlings for transfer have been standardized for the variety CoC 671.

Different concentration of the partially purified toxin was incorporated into MS basal medium to check the limits of toxicity of the red rot toxin on callus, cells and regenerated seedlings. The cell lines were selected at higher concentration of toxin in the MS medium. The selected cell lines were subjected to the same concentration of toxin for several times. Then toxin tolerant cell lines were allowed for regeneration in the MS medium. Comparative study has been made to check the toxicity in the red rot resistant variety Co 740 and susceptible variety CoC 671, the toxin doesn't affect callus growth of the var. Co. 740 even at higher concentration, whereas in case of CoC 671, it inhibited callus growth at higher level of toxin. The month old seedlings were transferred to small pots for hardening. The toxin treated cells were analyzed for organic constituents, ¹⁴C-Glucose uptake studies and inorganic constituents.

RAPD marker assisted analysis was done in both resistant and parental variety

Personal Details

Father's Name	: Ankalabasappa K.N
Date of Birth	: 04.08.1968
Passport No.	: K3238634