

Dr. M. Anuradha

Principal

Padmashree Institute of Management & Sciences

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Date of Birth: June 19, 1967

Marital status: Married



Education:

Ph.D.	Sri Krishnadevaraya University, Anantapur	1996	Plant Tissue Culture, Botany
M.Phil.	Sri Krishnadevaraya University, Anantapur	1991	Plant Tissue Culture, Botany
M.Sc.	Sri Krishnadevaraya University, Anantapur	1989	Botany

Position and Employment:

Padmashree Institute of Management & Sciences	Principal	2014	Till date
DST WOS – A	Women Scientist	2011	2014
RISHI Foundation	President	2005	2019
Rishi Herbal Technologies Pvt. Ltd	Director	2004	2019
Padmashree Institute Management & Sciences	Principal	2004	2010
DST Young Scientist	Principal Investigator	2001	2004
Sami Labs Ltd. Bangalore	Sr. Scientist & Head	1999	2001
Dr. Reddy's Laboratories Ltd., Hyderabad	Scientist	1995	1999

Academic distinctions:

- Secured University 1st rank and received a special prize for the same from the Chancellor of Andhra Pradesh.
- Qualified in GATE and selected as a UGC Junior Research Fellow.
- Selected as a CISR Senior Research Fellow.
- DST SERB Fast track Young scientist
- DST women scientist
- 2nd Prize for poster presentation in International Symposium on Frontiers in Genetics and Biotechnology – Retrospect & Prospect, Osmania University, Hyderabad. January 08 – 10, 2006
- Best Women Entrepreneur and product with export potential award by Government of Karnataka
- 3rd Prize for Poster “*Nyctanthes arbortristis* L. (Night Jasmine) - A promising and cost-effective substitute for Saffron in food and cosmetic industry” at Bangalore India Bio – International Biotech summit 2015, Bengaluru.

Research Experience

- 1990 - 1991 Initiated and established a plant tissue culture laboratory at the Dept. of Botany, S.K. University.
M.Phil degree for the dissertation entitled “Comparative study of *in vitro* callus induction and plantlet formation from nodal explants of two varieties of *Morus alba* L.”.
- 1992-1995 Junior Research Fellow (UGC)
Senior Research Fellow (CSIR) for research on *Pterocarpus santalinus* L.f.
- 1995-1999 Research Associate at Medicinal Plants Division of Dr. Reddy’s Research Foundation, Research Centre of Dr. Reddy’s Laboratories, a leading pharmaceuticals company.
Involved in laboratory establishment.
Undertaken projects on micropropagation, cell cultures and secondary metabolite production of medicinal plants.
Promoted as a Scientist and later became Laboratory in-charge.

- 1999 – 2000 Senior Scientist & Head of the Medicinal plants division of Sami Labs Limited, Bangalore.
Involved in establishment of Tissue culture laboratory, planning and initiation of various projects in plant tissue culture, cultivation practices and phyto-enrichment studies on medicinally important crops.
- 2000 –2004 SERC DST Young Scientist . Project entitled “A Systematic investigation of *Nothapodytes foetida*, a potent anticancer plant with emphasis on Tissue culture and *in vitro* secondary metabolite production”
- 2004- 2007 Principal Investigator for a project entitled “Technology transfer for large-scale propagation and cultivation of selected medicinal & aromatic plants for increasing income levels of women and rural development of Harohalli Hobli, Karnataka”. DBT, New Delhi
- 2005 Founder-Trustee of Rishi Foundation, research organisation formed to promote research activities for societal benefits.
Industrial consultancy on “Development of high yielding lines of selected medicinal plant of anti-malarial properties” for M/s Vedic Elements Pvt. Ltd. Bangalore.
- 2009 Principle Investigator “Cost effective study of micropropagation of *Leptadenia reticulata* to make it feasible for commercial supply of elite germplasm for farmers”. National Medicinal Plants Board, New Delhi
- 2011 Principle Investigator Tissue, cell and organ culture of *Melissa officinalis* with special reference to Rosmarinic and Ursolic acids. Department of Science and Technology, New Delhi.
- 2011 Conservation of *Pterocarpus santalinus* (Red Sandal wood or Red sanders) rare, endangered, threatened and red listed tree of South India.
2010 Rufford Foundation, U.K
- 2011 Consultancy to Charms chem Pvt. Ltd. Pune, for conducting Feasibility study of large-scale cultivation of wild anti-cancer plant.
- 2011 Tissue culture and conventional propagation of *Nothapodytes foetida* for large-scale supply of quality saplings and comparative study with *Camphotheca acuminata*. National Medicinal Plants Board, New Delhi
- 2014 Lab to land technology transfer for conservation, rapid propagation and cultivation of *Nothapodytes foetida*. National Medicinal Plants Board, New Delhi

- 2015 Principal Investigator, Women & Nutrition project sanctioned by DST, New Delhi “Adaptation, replication, scientific validation and scale-up of the patented formula that can enhance the micronutrient and phytochemical constituents in the staple food and its utilization towards improved nutritional and financial status of selected semi-rural poor woman of selected revenue villages of Kengeri Hobli, Bangalore”.
- 2015 Mentor “Optimization of marker assisted technology for screening, selection and micropropagation of elite genotypes of *Pterocarpus santalinus* (Red Sandalwood)” DST WOS A .
- 2015 Collaboration with Pelican Biotech and Chemical labs Pvt.Ltd. Kerala for product testing and development
- 2019 Consultancy to Cycle group of Industries for product development

Professional and Administrative experience:

- 2004 -2010 Principal, Padmashree Institute of Management and Sciences, Bangalore.
- 2011 Chairperson, Board of Studies, Biotech Finishing School on collaboration with Karnataka State Open University, Mysore.
Hon. Director, Padmashree Institute of Management & Sciences.
Hon. Director, Biotech Finishing School approved by Dept. of IT & BT, Government of Karnataka.
- 2012 Convenor – Biotech Finishing Schools Steering Committee, Dept. of IT & BT, Govt. of Karnataka.
- 2013 Member, Common Board of Examination of Biotech Finishing School in collaboration with Karnataka State Open University, Mysore.
- 2014 Principal and R&D Director, Padmashree Institute of Management and Sciences, Bangalore.
Director, DDU KAUSHAL KENDRA, Padmashree Institute of Management and Sciences, Bangalore.
- 2015 Chairperson, Expert committee B.Voc and M.Voc, Bangalore University, Bangalore
- 2017 Member steering committee and monitoring committee of BiSEP, KITS, Department of IT,BT, Government of Karnataka.
- 2018 Member of Academic council, Bangalore University.

- 2019 Member of Syndicate, Bangalore University.
- 2019 Governing council member Adarsh Vidhya Kendra College, Bangalore.
- 2019 Governing council member Akshara First grade college, Bangalore.
- 2019 Governing council member Babu college of Management Studies, Bangalore.
- 2019 Governing council member, Basaveshwara Degree College, Bangalore
- 2019 Governing council member, Darshan College, Bangalore.
- 2019 Governing council member, Federal College of Management, Bangalore
- 2019 Member, BOS, Smt. VHD Central Institute of Home Science, Bangalore
- 2019 BOE member Biotechnology at JSS College for women, Mysore
- 2019 BOE member Biotechnology at MLACW, Bangalore
- 2019 BOE member Biotechnology at SIT, Tumkur
- 2019 BOS member Biotechnology at Dayananda Sagar University
- 2020 BOE member, MVOC FPN, MLT, FTQM, BISEP, Bangalore University
- 2021 Governing council member, MLACW, Bangalore
- 2021 Chairperson for subject expert committee in Home Science, Clinical Nutrition & Dietetics, Human Development, Care & Welfare, Government of Karnataka.
- 2022 BOE Chairperson, MVOC FPN, MLT, FTQM, BISEP, Bangalore University
- 2022 Member for Vision Group on Biotechnology

Projects and Grants:

S. No.	Title of Project	Funding Agency	Amount in lakhs	Year
1	DST- FIST program	DST, New Delhi	30.00 Lakhs	2017
2	Biotechnology skill enhancement program	KBITS, GOK, Karnataka	50.00 Lakhs	2017
3	Establishing Novel Drug Leads for AMPA & SNCA Receptors from Indian Ayurvedic Herbs.	SERB, DST, New Delhi	19.2 Lakhs	2016
4	Adaptation, replication, scientific validation and scale-up of the patented formula that can enhance the micronutrient and phytochemical constituents in the staple food and its utilization towards improved nutritional and financial status of selected semi-rural poor woman of selected revenue villages of Kengeri Hobli,	DST, New Delhi	46.13 Lakhs	2015

	Bangalore.			
5	Optimization of marker assisted technology for screening, selection and micropropagation of elite genotypes of <i>Pterocarpus santalinus</i> (Red Sandalwood)	DST, New Delhi	25.00 Lakhs	2015
6	Establishing advance research and training facility for phytoceuticals – KFIST Level II	VGST, Dept. of IT, BT, and S&T, GoK	40.00 Lakhs	2015
7	Lab to land technology transfer for conservation, rapid propagation and cultivation of <i>Nothapodytes foetida</i> .	NMPB, New Delhi	12.48 Lakhs	2014
8	Biotechnology finishing school – Research and Training	KBITS, Government of Karnataka	100.00 Lakhs	2011
9	Tissue culture and conventional propagation of <i>Nothapodytes foetida</i> for large-scale supply of quality saplings and comparative study with <i>Camphotheca acuminata</i> .	NMPB, New Delhi.	25.0 Lakhs	2011
10	Feasibility study of large-scale cultivation of wild anti-cancer plant.	Charms Chem Pvt. Ltd., Pune	6.0 Lakhs	2011
11	Conservation of <i>Pterocarpus santalinus</i> (Red Sandal wood or Red sanders) rare, endangered, threatened and red listed tree of South India.	Rufford Foundation, U.K	4.00 lacs	2010
12	Tissue, cell and organ culture of <i>Melissa officinalis</i> with special reference to Rosmarinic and Ursolic acids.	DST, New Delhi	21.80 lakhs	2010
13	Cost effective study of micropropagation of <i>Leptadenia reticulata</i> to make it feasible for commercial supply of elite germplasm for farmers.	NMPB, New Delhi.	7.00 Lakhs	2009
14	Technology transfer for large-scale propagation and cultivation of selected medicinal & aromatic plants for increasing income levels of women & rural development of Harohalli, Karnataka”.	DBT, New Delhi	11.61 Lakhs	2007
15	Development of high yielding lines of selected medicinal plant of anti-malarial properties.	Vedic Elements, Bangalore.	3.75 Lakhs	2005
16	A Systematic investigation of <i>Nothapodytes foetida</i> , a potent anticancer plant with emphasis on Tissue culture and in vitro secondary metabolite production.	DST, New Delhi	9.44 Lakhs	2004

Training programs / Workshops attended:

- Obtained training in plant tissue culture techniques at the Plant Genetics Laboratory, Dept. of Genetics, Osmania University, Hyderabad under the guidance of Prof. P.B. Kavikishore from March 21st – April 5th, 1991.
- Received training in tissue culture techniques applied in tissue culture of tree species at Gujarat Agriculture University, Anand under the supervision of Prof. A.R. Mehta from December 7th – 15th, 1992.
- Participated in a workshop on Scientific / Analytical Instrumentation meant for Research Scholars held by Dept. of Instrumentation, S.K. University, Anantapur from October 13th – 16th, 1993.
- Participated in an intensive training program on floriculture industry and its export prospects held at Bangalore and Chennai, sponsored by Indian Institute of Horticulture Research, Bangalore and Small Industries Product Promotion Organization Limited, Chennai from February 15th – 17th, 1995.
- Completed a short-term training course in biotechnological applications of plant tissue and cell cultures to produce phytochemicals and plant improvement organized by CFTRI, Mysore during February 2nd – 22nd, 1998.
- Completed a short-term course on IPR at Indian Institute of Science, Bangalore.
- Attended Refresher Programme on Plant Genetic Engineering conducted by Madurai Kamaraj University, Madurai. December 7th – 21st, 2004.
- Advanced training programme in IPRs for Small & Medium scale Industries sponsored by Department of Biotechnology and organized by Biotech Consortium India Limited, New Delhi. October 05 – 07, 2006.
- Participated in One day faculty development Programme on “Technology Enabled Teaching and Learning in Higher Education held at Vivekananda Institute of Management, Bangalore. 2016

Seminars/conferences/workshops organized

April 04, 2009	“Life Sciences – An evergreen option for blooming career” at Nayana Auditorium, Bangalore.
May 22 & 23, 2009	National seminar sponsored by DST on “Emerging Trends in Plant Tissue Culture and Secondary Metabolite Production”.
Nov. 23 to Dec. 07, 2012	UGC, New Delhi & DBT, New Delhi sponsored National level Conference and Workshop on Computational Biology, Pharmaceutical Sciences & Life Sciences jointly with Maharani Lakshmi Ammanni College of Women, Bangalore.
July 24, 2015	“Exploring Career Options in Life Sciences” in collaboration with Dept. of Microbiology & Biotechnology, Bangalore University at Gnana Jyothi Auditorium.
December 28 th , 2015	A three day Hands on Training workshop on “Plant Genetic Transformation” at Padmashree Institute of Management and Sciences.
March 3 rd , 2016	Two day Workshop on “Skill Development in Food and Nutraceutical Sectors” at Padmashree Institute of Management and Sciences.
December 12 th , 2016	A Seminar on “Immutable Role of Teachers in Student Career Advancement” at Padmashree Institute of Management and Sciences
March 31 st , 2017	A three day “Workshop on Tools & Techniques for a successful research career” at Padmashree Institute of Management And Sciences.
September 25 th , 2017	A “Seminar on Scientific Writing” at Padmashree Institute of Management and Sciences.
October 14 th , 2017	Organized an “ Seminar on Suicide tendency of Students”
November 27 th , 2017	Organized and attended a two day International Conference on “Public Mental health and Neurosciences”.

November 8 th , 2017	Seminar on “Career opportunities and Skill development” at Padmashree Institute of Management and Sciences.
December 11 th , 2017	Workshop on “Insta – PCR for industrial sterility check” in collaboration with Hi media laboratories pvt. Ltd. Bangalore.
December 13 th , 2017	Three day on Workshop on “Advanced technique in biochemical microbial identification analytical profile index” at Padmashree Institute of Management and Sciences.
January 30 th , 2018	Workshop on “Plant tissue culture” at Padmashree Institute of Management and Sciences.
February 3 rd , 2018	Workshop on “Protein Purification” at Padmashree Institute of Management and Sciences
May 18, 2018	Hands on workshop on “Nutraceuticals & analytical methods” at Padmashree Institute of Management and Sciences in association with WATERS and DEXTROSE Pvt. Ltd.
July 22, 2018	National Seminar on “Science vocational Education: Perspectives of Industry and Academics” in collaboration with Bangalore University, LSSSDC and HSSC.
July 24 th , 2018	“Workshop on Train The Trainer” in collaboration with LSSSDC, New Delhi.
August 4 th , 2018	“Scientific Writing & Statistical Analysis” at Padmashree Institute of Management and Sciences.
October 28 th , 2018	Trained with Grade “B” for the Qualification pack of business development executive – Life sciences conforming to National skill qualification framework level-4 with NSDC
November 11, 2018	Three day workshop on “Research Methodology - Skills and strategies for a successful career” at Padmashree Institute of Management and Sciences.
November 13, 2018	“Workshop on High Performance Liquid Chromatography” in collaboration with WATERS.
November 17, 2018	Workshop on Personality development and soft skills

17.12.2018

Speaker/Resource Person for Training/Workshops/Seminar

June 05, 2009

Seminar organized by M/s Pelican Biotech & Chemical Labs, Alleppey, Kerala.

August 09, 2009

One day Seminar organized by Peptides, Vijayawada, Andhra Pradesh.

September 24 – 26, 2009

Workshop on Plant Tissue Culture organized by NIAM Institute of Engineering, Nitte, Karkala

May 13, 2010

One Day Hands on workshop on Plant Tissue Culture organized by Peptides, Vijayawada, Andhra Pradesh.

October 16, 2014

Delivered talk on “Nutraceuticals integrated into Food – Current Status and Regulations” at seminar on “Emerging Statutory and Regulatory Issues for Food Industry” Organized by National Dairy Research Institute (NDRI) and Association of Food Scientists and Technologists (AFST- I) Bangalore Chapter on World Food Day.

November 15th, 2016

Delivered talk on “Strengthening Plant Breeding and Future Perspectives” at Bangi- Putrajaya Hotel Selangor, Malaysia.

December 14, 2016

Delivered talk on “Biotechnological Strategies to produce phyto anti-cancer-compounds” at 3rd International conference on Public Mental health and Neurosciences.

Jan 23rd - Feb 03rd, 2017

Participated in the “General management program for women scientists” at ASCI Hyderabad

April 09th, 2017

Presented research paper - “Pharmaco-Informatics: Harnessing the Power of Bioinformatics In Cancer Research and Management: A Review” at Ranchi

April 19th, 2017

One day UGC sponsored national workshop on “Research Development Framework for Faculty and Students in Higher Education”

August 7th, 2017

Delivered invited talk at Punar-Nava Dravyaguna Updates-2017 held at Government Ayurveda Medical College, Bangalore

November 27th, 2017

Chaired the session on “Yogic Research in Biotechnology” at ICPMN 2017 at Mumbai

February 2018

Attended one day workshop on “Mindful Eating” at Smt V.H.D Central Institute of Home Science, Bangalore

February 07th & 8th , 2019

Delivered invited talk at National conference “ Dravyaguna Prabodhini-2019” at Government Ayurveda Medical college, Dhanwantari, Bangalore

April 17th & 17th , 2019

Attended the “Life Science Educational Ambition Fair 2019 (LEAF) organized by Biotechnika Info Labs Pvt Ltd, Bangalore

March 7th, 2020

One day National Seminar on Fostering & supporting women in research and development: challenges and prospects organized by Government degree college at Tadipatri.

July 6th, 2020

One day webinar on “Culinary Evolution Post COVID-19”, by celebrity chef Harpal singh sokhi, organized by Department of Biology, ST.Aloysius PU college, Mangalore

July 15th – 17th, 2020

Attended a course on “Nutraceuticals for Health & Performance Improvement: Development to field applications” under CEP of DRDO, organized by Defense institute of Physiology and Allied sciences, Delhi

July 21st, 2020

One day International Webinar on “Public Health Epidemiology – Strategies for Health and Nutrition” organized by Tamil Nadu Agricultural University, Tamil Nadu, India.

July 24th, 2021

Resource Person at “The American India Foundation Trust” implemented IBM’s STEM for girls program, in association with quest alliance across 10 states in India.

October 5th, 2021

Resource Person at MLCAW in association with PIMS “NEP 2020 implementation and framework”

Countries visited as a resource person:

Lusaka, Zambia – Advisor to cultivate medicinal plants

Malaysia – University Putra Malaysia – Resource person and Invited talk – International conference.

Malaysia - University Putra Malaysia – Resource person and Invited talk – National Seed Symposium.

Book:

Title: Application of Biotechnology in Patchouli: An industrially valued aromatic herb

Editors: M. Kumara Swamy (Editor), M. Anuradha (Editor)

Publisher: LAP LAMBERT Academic Publishing; ISBN-10: 3659824526; ISBN-13: 978-3659824524

Title: Red sanders: Silviculture and conservation. Springer publication.

Title: Camptothecin and Camptothecin Producing Plants” ISBN: 978-0-12-820499-3

List of important publications.

1. **M. Anuradha** and T. Pullaiah. 1999. *In vitro* seed culture and induction of enhanced axillary branching in *Pterocarpus santalinus* and *P. marsupium*: A method for rapid multiplication. *Phytomorphology*. Vol. 49 (2), pp. 157-163,
2. **M. Anuradha** and T. Pullaiah. 1999. Propagation studies of Red Sanders (*Pterocarpus santalinus*) *In vitro* - an endangered taxon of Andhra Pradesh, India. *Taiwania*, Vol. 43 (3): 311 - 324
3. **Anuradha M.** and T. Pullaiah. 1998. Investigations on germination of *Pterocarpus santalinus* (Red Sanders) with special reference to *in vitro* seed culture. *The Indian Forester*. Vol 124 (5), pp. 309 – 313,
4. **M. Anuradha** and T. Pullaiah. 1996. *In vitro* shoot regeneration in *Hardwickia binata* Roxb. *Frontiers in Plant Science Research*. 273 – 277.
5. U.N. Lakshmidēvi, **M. Anuradha**, E. Sreedēvi and T. Pullaiah. 1996. *In vitro* shoot regeneration from seedling explants of *Peltophorum pterocarpum* (D.C) Heyne. *Frontiers in Plant Science Research*. 333 – 335.
6. **M. Anuradha** and T. Pullaiah. 1992. Micropropagation of Mulberry. *Annali di Botanica*. Vol. L. 35 – 42.

7. A. Sarvesh, **M. Anuradha**, T. Pullaiah, T.P. Reddy and P.B. Kavikishore 1996. Salt stress and antioxidant response in high and low proline producing cultivars of Niger, *Guizotia abyssinica* (L.F) Cass. Indian Journal of Experimental Biology: 34; 252-256:
8. **M. Anuradha**, P.B. Kavikishore and T. Pullaiah. 2000. *In vitro* propagation of *Hardwickia binnata* Roxb. Journal of Indian Botanical Society 79:127-131
9. **M. Anuradha**, Rinku Rajani, Indu B. K., K.M. Divakar. 2005. Production of anticancer compounds from cultures of *Nothapodytes foetida* of selected geographical origin. Phytomorphology. Vol. 54 (3 & 4): 185-191.
10. **M. Anuradha**, Indu B. K., Rinku Rajani, K.M. Divakar. Somatic embryogenesis in *Nothapodytes foetida*: A potent antineoplastic plant, 2007. Plant Cell Biotechnology and Molecular Biology. Vol. 7(1&2) 77- 80.
11. G Swaroopa, Nimisha Nigam & **Anuradha Maniyam**. 2007. Germplasm conservation of selected lines of *Coleus forskohlii* (Willd.) Briq by nodal segment encapsulation. *Phytomorphology* 57 (3&4) pp. 221-225.
12. Kumara Swamy, M., S. Balasubramanya and **M. Anuradha**, 2009. Germplasm conservation of Patchouli (*Pogostemon cablin* Benth.) by encapsulation of *in vitro* derived nodal segments. International Journal of Biodiversity and Conservation, Vol. 1(8): 224 – 230.
13. Kumara Swamy, M., S. Balasubramanya and **M. Anuradha**, 2010. *In vitro* multiplication of *Pogostemon cablin* Benth. through direct regeneration. African Journal of Biotechnology, Vol. 9 (14), 2069 – 2075.
14. Kumaraswamy, M., and **M. Anuradha**, 2010. Micropropagation of *Pogostemon cablin* Benth. through direct regeneration for production of true to type plants. Plant Tissue Cult., & Biotech, 20(1): 81-89.
15. Kumara Swamy M., K. M. Sudipta, S. Balasubramanya and **M. Anuradha**, 2010. Effect of different carbon sources on *in vitro* morphogenetic response of patchouli (*Pogostemon Cablin* Benth.). Journal of Phytology, 2(8): 11-17.
16. Sudipta K.M, Kumara Swamy M, Balasubramanya S and **Anuradha M**, 2011. Cost effective approach for *in vitro* propagation of (*Leptadenia reticulata* Wight & Arn.) – a threatened plant of medicinal importance. Journal of Phytology, 3(2): 72-77.
17. Pullaiah T., M. Sowghandika, P. Kalavathi and **M. Anuradha**. 2011. Tissue culture of tree legumes: a review. In: In: Plant Tissue Culture - emerging trends. Pullaiah T. (Ed.), Daya Publishing House, New Delhi.

18. Balasubramanya S, L. Rajanna and **M. Anuradha**, 2011. Bioelicitation of gymnemic acid in suspension cultures of *Gymnema sylvestre* (Retz.) Schultes. In: Plant Tissue Culture - emerging trends. Pullaiah T. (Ed.), Daya Publishing House, New Delhi.
19. Balasubramanya S, L. Rajanna, **M. Anuradha**, 2011. Effect of plant growth regulators on morphogenesis and forskolin production in *Plectranthus barbatus* Andrews. *In Vitro Cellular and Developmental Biology - Plant*, 48 (2): 208-215.
20. Kumara swamy M, Neeraj Pokharen, Santosh Dahal and **Anuradha M** (2011). Phytochemical and antimicrobial studies of leaf extract of *Euphorbia neriifolia*. *Journal of Medicinal Plants Research*, Vol. 5(24): 5785- 5788.
21. Kumara swamy M and **Anuradha M** (2011). Analysis of genetic variability in patchouli cultivars (*Pogostemon cablin* Benth.) using RAPD Markers. *Research in Biotechnology*, 2(6): 64-71.
22. **Anuradha M**, Lokesh P, Pradeep S. Kaushik and Balasubramanya S., 2011. Improved propagation technique for *Nothapodytes foetida*. *International Journal of Research and Reviews in Pharmacy and Applied Sciences*, Vol. 1 (4): 270-277.
23. M. Kumara Swamy, S.S.N. Kashyap, R. Vijay, Rahul Tiwari, **M. Anuradha** (2012). Production and Optimization of Extra Cellular Protease from *Bacillus* Sp. Isolated from Soil. *International Journal of Advanced Biotech & Research*, 3 (2): 564-569.
24. Sreedevi E, **Anuradha M**, and Pullaiah T (2013). Plant regeneration from leaf-derived callus in *Plectranthus barbatus* Andr. [Syn.: *Coleus forskohlii* (Wild.) Briq.], *African Journal of Biotechnology*, 12(18): 2441-2448.
25. Lokesh, P, Balasubramanya S and **Anuradha M** (2013). Cost effective quantification of camptothecin and a comparative study of its content in *Nothapodytes foetida* and *Ophiorrhiza mungos* sourced from selected geographical locations. *Journal of Oriental Pharmacy and Experimental Medicine*. <http://link.springer.com/article/10.1007%2Fs13596-013-0124-4#page-1>
26. Swaroopa G., **Anuradha, M.** and T. Pullaiah, 2013. Elicitation of Forskololn in suspension cultures of *Coleus forskohlii* (Willd.) Briq. using elicitors of fungal origin; *Current Trends in Biotechnology and Pharmacy*, Vol.7 (3): 755-762.
27. Swaroopa G., **Anuradha, M.** and T. Pullaiah, 2013. Elicitation of Forskololn in suspension cultures of *Coleus forskohlii* (Willd.) Briq. using bacterial elicitors. *J. Indian Bot. Soc.*,92(1&2): 97-100.
28. Sudipta KM, **Kumara Swamy M**, Anuradha M (2013). Influence of Various Carbon Sources and Organic Additives on *In Vitro* Growth and Morphogenesis of *Leptadenia*

- reticulata* (Wight & Arn), A Valuable Medicinal Plant of India. Int. J. Pharm. Sci. Rev. Res., 21(2): 174- 179.
29. Mallappa Kumara Swamy, Sudipta Kumar Mohanty and **Maniyam Anuradha**, 2014. The Effect of Plant Growth Regulators and natural supplements on *in vitro* propagation of *Pogostemon cablin* Benth. J. Crop Sci. Biotech., 17 (2): 71 – 78.
 30. Sudipta K. M., M. Kumara Swamy, S. Balasubramanya and **M. Anuradha**, 2014. Assessment of genetic fidelity, antioxidant enzyme activity and proline content of micropropagated and field grown plants of *Leptadenia reticulata* (Wight & Arn.) - An endangered medicinal plant, Plant Cell Biotechnology and Molecular Biology, Vol. 15 (3-4): 127 - 135.
 31. Sudipta K. M., M. Kumara Swamy, S. Balasubramanya and **M. Anuradha**, 2014. Evaluation of antioxidant, *in vitro* cytotoxicity of micropropagated and naturally grown plants of *Leptadenia reticulata* (Retz.) Wight & Arn.- an endangered medicinal plant. Asian Pacific Journal of Tropical Medicine, Vol. 7 (Suppl 1); 267 – 271.
 32. Sudipta Kumar Mohanty, Kumara swamy M, Sushil Kumar Middha, Lokesh P, Balasubramanaya S and **Anuradha M**, 2015. Analgesic, anti-inflammatory, anti-lipoxygenase activity and characterization of three bioactive compounds in the most active fraction of *Leptadenia reticulata* (Wight & Arn.) - A valuable plant of medicinal importance. Iranian Journal of Pharmaceutical Research Iranian Journal of Pharmaceutical Research, 14 (3): 933-942.
 33. Pradeep S Kaushik, M. Kumara Swamy, S. Balasubramanya and **Maniyam Anuradha**, 2015. Rapid plant regeneration, analysis of genetic fidelity and camptothecin content of micropropagated plants of *Ophiorrhiza mungos* Linn. – A potent anticancer plant, J. Crop Sci. Biotech., 18 (1):1-8.
 34. Mallappa Kumara Swamy, Sudipta Kumar Mohanty, Uma Rani Sinniah and **Anuradha Maniyam**, 2015. Evaluation of Patchouli (*Pogostemon cablin* Benth.) cultivars for growth, yield and quality parameters, Journal of Essential Oil Bearing Plants, 18 (4): 826-832.
 35. Raouf Ahmad Mir, Pradeep Suresh Kaushik, Rukaya Amin Chowdery and **Anuradha M**, 2015. Elicitation of Forskolin in cultures of *Rhizactonia bataticola* - a phytochemical synthesizing endophytic fungi, International Journal of Pharmacy and Pharmaceutical Sciences, Vol 7 (10):185 – 189.

36. G. Swaroopa, M. **Anuradha** and T. Pullaiah, 2016. Influence of Sucrose and Plant Growth Regulators on Growth and Forskolin production in callus cultures of *Coleus forskohlii*. *Current Trends in Biotechnology and Pharmacy*, Vol. 10 (1): 45-54.
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Patent granted:

1. Enhancing secondary metabolites and nutrients in plants and plant parts.US 9,565,804
2. Post-harvesting Techniques for enhancing nutrients and phytochemicals in Plant/plant parts. Inventors: **M. Anuradha** and S. Balasubramanya. (03-08-2021)
3. 2313/CHE/2013-Method, System and Apparatus for Growing and Extracting Plant and/or Plant Parts for Enhanced Benefits Inventors: **M. Anuradha** and S. Balasubramanya (15-03-2022)
4. 2316/CHE/2010 - Enhancing secondary metabolites and nutrients in plants and plant parts. Inventors: **M. Anuradha** and S. Balasubramanya (04-06-2022)
5. 2314/CHE/2013-Techniques for enhancing nutrients and phytochemicals in a plant/plant parts Inventors: **M. Anuradha** and S. Balasubramanya (09-01-2023)

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- 1) 3123/CHE/2010 - Method of producing secondary metabolites from isolated fungus.
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- 2) 169/CHE/2013 - GIS for Life Sciences. Inventors: **M. Anuradha**, S. Balasubramanya and Omprakash S. Sringeri

Declaration

I hereby declare that all the information given is true to best of my knowledge.

Place: Bangalore

Date: 03-04-2023

Signature



Dr. Anuradha M