

Dr. Y. Padma M.Sc., Ph.D.

Lecturer

Department of Botany

Govt. Degree College

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Career Objective

To pursue my research work on a challenging problem during which I can apply my scientific and technical skills and learn new skills that will give me an opportunity to gain a career in the scientific field.

Key Skills

Biosystematics, Ethnomedicine, Antimicrobial activity, Green synthesis of nano particles and Microscopy

Academic Qualifications & Positions held

2004	Bachelor Science with specialization in Botany, Zoology & Chemistry from Sri Venkateswara University, Tirupati in First Division securing 60.55%
2006	Master of Science in Botany from Sri Krishnadevaraya University, Anantapuramu in Second Division securing 58.95%.
2007	Pre-PhD Examination from Sri Krishnadevaraya University, Anantapuramu securing 62%
2012	Doctoral Degree in Botany from Sri Krishnadevaraya University, Anantapuramu.
2013	Post Doctoral Fellow at Department of Botany Sri Krishnadevaraya University, Anantapur from 01-08-2013 to 31.07.2018

Research Experience

- **Two years of experience** in working as **JRF** in RGNF entitled “Ethnomedicobotanical studies on *Andrographis* species (Acanthaceae) from the forest of Rayalaseema Region, Andhra Pradesh” under Prof.R.R.Venkata Raju, Department of Botany, S.K. University, Anantapur.
- **Three years of experience** in working as **SRF** in a RGNF entitled “Ethnomedicobotanical studies on *Andrographis* species (Acanthaceae) from the forest of Rayalaseema Region, Andhra Pradesh” under Prof.R.R.Venkata Raju, Department of Botany, S.K. University, Anantapur (Within the Doctoral work period)
- **Five years of Doctoral Research Experience** of my Doctoral Thesis work under Prof.R.R.Venkata Raju, , Department of Botany, S.K. University, Anantapur.
- **UGC Post Doctoral Fellow** under Prof. R.R.Venkata Raju, Department of Botany, S.K. University, Anantapur.from 01.08. 2013 to 31.07.2019.

Current Research Work

“Bioprospecting and conservation of *Andrographis nallamalayana* Eills, a rare, endemic and

endangered medicinal plant”

The Current research is *A. nallamalayanais* is little explored for its therapeutic principles and no information is available on its pharmacognostic and phytochemical profile, hence, the present proposal is aimed to establish scientific basis on its phytochemical and pharmacognostic profile along with biological properties.

Ph.D Thesis Dissertation Title

“ETHNOMEDICOBOTANICAL STUDIES ON ANDROGRAPHIS SPECIES (ACANTHACEAE) FROM THE FOREST OF RAYALASEEMA REGION, ANDHRA PRADESH.”.

About Ph.D Thesis Work

The Doctoral Thesis work deals with the comprehensive data on ethnobotany, preliminary phytochemical screening followed by fractionation of potential fractions and pharmacology with reference to crude drugs used for different human ailments. This will help to promote the future investigations on locally available medicinal plants and capture the biological and cultural data of local people. Further, the data can be used for intensive studies in order to evaluate active principle which is biologically active against the causative principle or pathogenic microorganisms. It is apparent through this review that the pace of natural product research and level of global interest in this particular area has raised dramatically in the past few years. This trend is projected to continue for the interface between chemistry and biology becomes more blurred and the public demand rises for cost effective medications and biological agents from sustainable resources.

Publications

Published

Aggregate impact Factor Gained: **5. 306**

Research Articles

1. . N. Sarojini Devi, **Y. Padma** and R. R. Venkata Raju. 2021. Green synthesis of silver nanoparticles through reduction with *Euphorbia nivulia* Buch.-Ham., stem bark extract: Characterization and antimicrobial activity. *Journal of Pharmacognosy and Phytotherapy*, Vol. 13(2), pp. 60-67, DOI: 10.5897/JPP2020.0577.
1. Vimala Kanikireddy, Krishnan Kanny, **Y. Padma**, Radha Velchuri, G. Ravi, B. Jagan Mohan Reddy, Muga Vitha. 2018. Development of alginate-gum acacia-Ag 0 nanocomposites via green process for inactivation of food borne bacteria and impact on shelf life of black grapes (*Vitis vinifera*). *Journal of Applied Polymer science*.136 (15), 47331.IF: 1.900
2. Guroji Purushotham, **Yerukala Padma**, Yusuf Nabiha, R. R. Venkata Raju. In vitro evaluation of anti-proliferative, anti-inflammatory and pro-apoptotic activities of the methanolic extracts of *Andrographis nallamalayana* Ellis on A375 and B16F10 melanoma cell lines. **3Biotech** (2016) 6:212 DOI 10.1007/s13205-016-0529-0. **IF: 1.361.**
3. **Y Padma**, N Sarojinidevi, K Venkata Ratnam, G Tirupati Reddy, RR Venkata Raju Herbal/Folk remedies used for snake bites by tribals/rural people of Rayalaseema region, Andhra Pradesh, India.*Journal of Medicinal Plants Studies* 2016; 4(2): 52-56.
4. Purushotham Guroji, **Padma Yerukala** & Venkata Raju R.R. In vitro evaluation of anti-proliferative properties of the methanolic extracts of *Andrographis echiioides* Nees on skin melanoma cell lines. *International Journal of Clinical and Biological Sciences* Volume 1, Issue 2, July-Dec 2016, pp 41-49.
5. RATNAM V. KAMSALA, BHAKSHU MD. LEPAKSHI, **PADMA, Y**, VENKATA RAJU, R. R
Studies on antimicrobial and antioxidant properties of leaf extracts of *Syzygium alternifolium* (wt.) walp. *Int J Pharm Pharm Sci*, 2015. Vol 7, Issue 2, 139-143.

6. K. Gnaneswari, **Y. Padma**, R. R. Venkata Raju and K. N. Jayaveera. In vitro anthelmintic activity of *Leonotis nepetiifolia* (L.) R.Br., a potential medicinal plant. Journal of Chemical and Pharmaceutical Research, 2013, 5(2):345-348.

7. Naidu Sarojini Devi, **Yerukala Padma** and Rudraraju Reddi Venkata Raju. In vitro biological screening and chemical constituents of *Euphorbia perbracteata* Gage. J. Med. Plants Res. Vol. 8 (14), pp. 564-570, 10 April, 2014. DOI: 10.5897/JMPR2014.5381.

8. N. Sarojini Devi, **Y. Padma**, C.L. Narasimhudu and R.R. Venkata Raju. Diversity of Stomata and Trichomes in Euphorbia L.-1. Bangladesh J. Plant. Taxon. 20(1): 27-38, 2013(June). **Impact Factor:0.489**

9.Y Padma & R R Venkata Raju. Phytochemical screening and evaluation of antimicrobial activity of *Andrographis nallamalayana* Ellis, a rare and endangered species. Am J. PharmTechRes. 2013, 3(1), 957-962. (IF: 0.983)

10. Padma Y, Sarojini Devi N, Manju Natha B, Philip GH and Venkata Raju RR. PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTHELMINTIC ACTIVITY OF ANDROGRAPHIS ECHIOIDES NEES. Journal of Pharmacy Research 2012, 5(9), 4801-4803.

11. Venkata Raju R.R, **Padma.Y**, Lakshmi Narasimhudu.C, Sarojini Devi. N, Manju Natha. B, Naga Raju. B, Philip. G.H. IN VITRO ANTHELMINTIC ACTIVITY OF ANDROGRAPHIS PANICULATA (Burm.f.) NEES. IJPRD, 3(3): May 2011 (202 - 205).

12. K. Vimala, Y. Murali Mohan, K. Samba Sivudu, K. Varaprasad, S. Ravindra, N. Narayana Reddy, **Y. Padma**, B. Sreedhar, K. Mohana Raju*. Fabrication of porous chitosan films impregnated with silver nanoparticles: A facile approach for superior antibacterial application. Colloids and Surfaces B: Biointerfaces 76 (2010) 248–258. **(IF: 3.456)**

13.Y. Padma and R.R.Venkata Raju. 2007. Taxonomic validation and medicobotanical evaluation of *Andrographis* species (Acanthaceae) in Andhra Pradesh, India. Proceedings of the National Seminar on Conservation of Eastern Ghats. pp: 145- 117.

Membership of Reputed Bodies

- Life Member, Indian Association for Angiosperm Taxonomy (IAAT), India.

Workshops/ Conference/ Seminars Attended

- Preliminary phytochemical analysis of certain *Andrographis* species (Acanthaceae) used as crude drugs from Rayalaseema region, AP. **National seminar on Biodiversity and its conservation.** Department of Botany, Adoni. (A.P) India. August 9th & 10th 2008
- February 5-6, 2008, Participated in Annual Convention of Andhra Pradesh Akademi of Sciences and National Symposium on Science in 21st Century.
- Participated in the International seminar on “ Medicinal Plants and Herbal Product” Organized by the Department of Botany, S.v.university and A.P. Medicinal & Aromatic Plants Board Hyderabad. 7th – 9th March, 2008.
- Antimicrobial Evaluation of *Andrographis nallamalayana*, a rare and endemic species from

Eastern Ghats, India. **National Seminar on Emerging Trends In Bio-Technology. Dept. of Bio-Technology, Govt College, Anantapur. 4-5 December 2009.**

- Phytochemical diversity in *Andrographis* species (Acanthaceae) of Andhra Pradesh.
- IX International Conference of Int. Organization of Plant Biosystematists.** Dept of Botany, Dr. Babasaheb Ambedkar Marthwada Univ. Aurangbad. 02-04 September 2010.
- 26-28 November, 2010, Participated in Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Taxonomy, Plant Diversity and Conservation. Organized by Department of Botany, Bharathiar University, Coimbatore.
- Anthelmintic activity of *Andrographis paniculata*. **National seminar on Trends in plant sciences** Department of Botany, S. K. University, Anantapur. March 25-26, 2011
- Phytochemical analysis and antimicrobial evaluation of *Andrographis nallamalayana*, a rare and endemic species from Eastern Ghats, Andhra Pradesh. **National seminar on a advanced Immunology and Immunomodulation.** Dept. of Microbiology, S.K. University, Anantapur. March 26-28, 2012.
- November 19-21, 2015, Green synthesis, characterization and antimicrobial activity of silver nanoparticles from *Andrographis serpyllifolia* leaf extract. **International seminar on advancements in Angiosperm systematic and conservation. Organized by department of Botany University of Calicut, Kerala, India**

WORK SHOPS

1. Attended 2 day national work shop on 'Environment degradation and management' organized by Department of Geography, S.K. University 22nd – 23rd September, 2011.
2. Attended Two day Science Academies Lecture Workshop on "Current trends in Plant Taxonomy & Conservation organized by Department of Botany, Govt College, (Autonomus), Ananthapuramu. 5-6 January 2018.

AWARDS

1. POST-DOCTORAL FELLOWSHIP BY UGC, GOVT. OF INDIA (2013)
2. RAJIV GANDHI NATIONAL FELLOWSHIP BY UGC (2007-2012)

RESEARCH EXPERIENCE:

4 years 6 months of working in both field and laboratory research

Computer Knowledge

- MS-Office, MS-Excel, MS-Power Point Presentation, Adobe Photoshop.

Teaching Experience

- Working as post doctoral fellow since August, 2013 in the Department of Botany and taking practical classes for both M. Sc previous and final year students.

References

Prof. RR. Venkata Raju,
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Personal Details

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Anantapur, Andhra Pradesh- 515003.
Date of birth : 10th June 1983
Sex : Female
Languages Known : Telugu, English,

Declaration

This is to certify that the above information provided is true to the best of my knowledge.

Place: Chinturu
Date: 14-10-2022

Y. Padma