



RAYALASEEMA UNIVERSITY

(A State University Established by Govt. of Andhra Pradesh)

(Accredited by NAAC with 'B' Grade)

KURNOOL – 518007, ANDHRA PRADESH

FACULTY PROFILE

1	Name of the Faculty	:	DR. K. VENKATA RATNAM		
2	Designation	:	ASSISTANT PROFESSOR (C)		
3	Department	:	BOTANY		
4	Date of Birth	:	20/12/1973		
5	Date of Joining	:	06/08/2015		
6	Academic Qualifications		UG Degree	PG Degree	Research Degree
	Name of the Degree	:	Govt. Degree College	M.Sc. Botany	M. Phil & Ph.D.
	Class / Grade Awarded	:	First	First	First
	Board / University	:	S.K. University	S.V. University	S.K. University
	Year of receiving Degree	:	1996	2000	2003 (M.Phil) 2006 (Ph.D.)
7	Areas of Specialization	:	Ethnobotany, Plant Taxonomy, Microbiology, Animal Tissue Culture,		
8	Total Experience (Yrs.)	:	Teaching	Industry	Total
			18	-	18
9	Papers Presented	:	National	International	Total
			08	3	11
10	Research Publications	:	Journals	Conferences Proceedings	Books / Chapters
	National Level	:	07	-	-
	International Level	:	30	04	Book -1 Book chapters - 18
11	Participation in		Seminars	Conferences	Workshops
	National Level	:	21	-	-
	International Level	:	9	-	-
12	Ph.Ds. / Projects Guided	:	Completed:	-	Ongoing:
13	Research Projects handled	:	Major:	-	Minor:
14	Fellowships / Memberships	:			

15	Awards / Achievements / Any other information	<p>A). Established phytochemicals lab for 3rd Semester students: More than 250 medicinal crude drugs i.e. leaves, stem bark, flowers, roots etc. were collected from Andhra Pradesh forests and preserved in the Department of Botany in dry form for students classwork, Which is very useful for M.Sc. students and research scholars to improve their research skills.</p> <p>B). Established seed bank: About 150 medicinal plant seeds were collected from AP forests and preserved the germplasm in the dry form in the Department of Botany, Rayalaseema University, Kurnool.</p> <p>C). e-Flora of Andhra Pradesh/ RET taxa of AP: Prepared e-flora of Andhra Pradesh (with photographs of plants) and RET taxa of Andhra Pradesh to participate in the INSPIRE program conducted by Department of Chemistry, Rayalaseema University, during January 2017.</p>				
16	Contact information	<table border="1"> <thead> <tr> <th data-bbox="582 651 842 689">Mobile</th> <th data-bbox="842 651 1493 689">Email ID</th> </tr> </thead> <tbody> <tr> <td data-bbox="582 689 842 869">8008497926</td> <td data-bbox="842 689 1493 869">drvenkatapkd@gmail.com</td> </tr> </tbody> </table>	Mobile	Email ID	8008497926	drvenkatapkd@gmail.com
Mobile	Email ID					
8008497926	drvenkatapkd@gmail.com					
17	List of Publications /Chapters/Books (APA Format)	<p style="text-align: center;">International Journal Publications</p> <ol style="list-style-type: none"> 1. Shaik Madarvali, B. Kavitha and K. Venkata Ratnam (2024). "Tree diversity and documentation of Rayalaseema University, Kurnool, Andhra Pradesh, India." <i>Afr.J.Bio.Sc.</i> 6(15): 14574 to 14589. 2. Mallika, G, Khadar Basha, S, Suseelamma, M, and K. Venkata Ratnam (2024). Economic and Cultural Importance of Arboraceous Species from Ahobilam Sri Lakshmi Narasimha Sacred grove, Nandyal District, Andhra Pradesh. <i>Mukt Shabd Journal</i>, XIII (V): 1290 – 1304. 3. Vishnu Mohan Reddy, P. Pulala Raghuvveer Yadav and K. Venkata Ratnam. (2024). Anticancer Activity of <i>Hedychium coronarium</i> Rhizome Solvent Extracts on Colon Cancer Cells. <i>Defence Life Science Journal</i>, 9 (2): pp. 117-124. DOI : 10.14429/dlsj.9.18846. 4. Vishnu Mohan Reddy, P. Pulala Raghuvveer Yadav, A. Lakshmi Devi, Lepakshi Md. Bhakshu and K. Venkata Ratnam. (2024). Phytochemical Analysis of Selected Medicinal Plants from Eastern Ghats of Andhra Pradesh. <i>Biomedical & Pharmacology Journal</i>. 17(1), p. 425-433. 5. Pulala Raghuvveer Yadav, Lepakshi Md. Bhakshu and K. Venkata Ratnam and Mallikarjuna, C. (2023). Global output of <i>Boswellia serrata</i> research (1969-2020): An Indian traditional medicinal plant with potential therapeutic value. <i>International Journal of Research in Library Science</i>. Volume 9, Issue 4 (Oct-Dec.) 2023, Page: 89-112, Paper ID: IJRLS-1699. 6. Vishnu Mohan Reddy, P., Pulala Raghuvveer Yadav, A. K. Venkata Ratnam (2023). Antioxidant and Anticancer Activity of <i>Rhynchosia rufescens</i> (Willd.) DC. <i>Indian Journal of Biochemistry and Biophysics</i>, 60, November, 857-867. IF: 1.64; ISSN: 3011208. 				

7. Prabhakar Yellanur Konda, Vijayakumar Poondla, Krishna Kumar Jaiswal, and **Venkata Ratnam Kamsala** et al., (2020). Pathophysiology of high fat diet induced obesity: impact of probiotic banana juice on obesity associated complications and hepatosteatosis. *Scientific Reports*, 10:16894. (Impact Factor: 4.99) ISSN: 2045-2322. Scopus and Web of Science
8. Lakshmi Devi A, P. Vishnu Mohana Raddy and **K. Venkata Ratnam** (2020). Anti-lipid peroxidation activity of *Allmania nodiflora* (L.) R. Br.: A traditional leafy vegetable. *International Journal of Pharmaceutical Sciences and Research*, 11(5): 2380-2384. ISSN: 2320 – 5148.
9. Vishnu Mohan Reddy, P., **Venkata Ratnam K**, and Venkata Raju, R.R. (2019). In Vitro antioxidant properties of *Alangium salvifolium* seed extracts. *Research Journal of Pharmacy and Technology*, 12 (10): 4714 – 4718. (Impact Factor: 0.68) Scopus: ISSN: 0974-3618.
10. Vishnu Mohan Reddy, P., **Venkata Ratnam K**, and Venkata Raju, R.R. (2019). Medicinal plant diversity of Sri Nemali Gundam Ranganayaka Swamy sacred grove, Prakasam District, Andhra Pradesh, India. *Medicinal Plants: International Journal of Phytomedicines and Related Industries*, 11 (4): 363-369. ISSN: 0975-4261.
11. Venkata **Ratnam K**, Tirupati Reddy, G and Venkata Raju, R.R. (2019). Therapeutic importance of gums in folk medicine from eastern ghats, Andhra Pradesh. *Asian Journal of Pharmaceutical and Clinical Research*, 12 (7): 300 – 302. (SCImago indexed) ISSN: 0974-2441.
12. Y.Padma, N. Sarojini Devi, **K. Venkata Ratnam**, G. Tirupati Reddy and R.R.Venkata Raju. (2016). Herbal/Folk remedies used for snake bites by tribals/rural people of Rayalaseema region, Andhra Pradesh, India, *Journal of medicinal plants studies*, 4(2): 52-56. ISSN:
13. Tirupati Reddy G, Bhakshu Md Lepakshi, **Ratnam V Kamsala** and Venkata Raju RR. 2016. Evaluation of antidiabetic, anticholinergic and antioxidant activity of leaf extracts of *Ochna obtusata* DC. using *in vitro* assays. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2016; 8 (6): 82-87. ISSN: 2249-1848.
14. Prasanna Anjaneya Reddy L, **Venkata Ratnam K**, Bhakshu MD L, Veeranjaneya Reddy L Narasimha Reddy B, Investigation of chemical and pharmacological properties of essential oils from two *Syzygium* species from Andhra Pradesh, India. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2015, 7 (9): 375-380. ISSN: 2249-1848.
15. **Ratnam V K**, Bhakshu MD L and Venkata Raju R.R. (2015). Phytochemical composition and in vitro antimicrobial activity of *Piper hymenophyllum* Miq.: A rare wild betel. *International Journal of Pharmacognosy and Phytochemical Research* 7 (1): 68-71. ISSN: 2349-8234.
16. *Prasanna Anjaneya Reddy L, Narasimha Reddy B, Venkata Ratnam K, Bhakshu MD L, Veeranjaneya Reddy L. 2015. Chemical Profile, Antioxidant and Antimicrobial Activity of Essential Oils from Boswellia ovalifoliolata Bal. et*

Henry. *International Journal of Pharmaceutical and Clinical Research* 2015, 7(1): 96 – 101.

17. **Ratnam V K**, Bhakshu MD L and Venkata Raju R.R. (2015). Studies on antimicrobial and antioxidant properties of leaf extracts of *Syzygium alternifolium* (Wt.) Walp. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7 (2): 139-143.
18. Prasanna Anjaneya Reddy L, Narasimha Reddy B, Bhakshu MD L, **Venkata Ratnam K**, Veeranjanya Reddy L. (2015). Chemical Composition, Antimicrobial and Antioxidant Activities of Essential Oils from Leaves and Fruits of *Commiphora caudata* Engl. *International Journal of Pharmacognosy and Phytochemical Research* 7 (1): 38-44.
19. **Ratnam VK**, Bhakshu MD L and Venkata Raju R.R. (2014). Phytochemical and antimicrobial activity of *Vernonia anthelmintica* (L.) Willd. Seed extracts. *World Journal of Pharmacy and Pharmaceutical Sciences*. 4(2): 39-746.
20. Praveen K. Kokkiripati, **Ratnam V. Kamsala**, Leena Bashyam, Nalini Manthapuram, Prasanth Bitla, Vidyadhari Peddada, Agepati S. Raghavendra, Sarada D. Tetali. 2013. Stem-bark of *Terminalia arjuna* attenuates human monocytic (THP-1) and aortic endothelial cell activation. *J. Ethnopharmacol.* 146 (2): 456-64. (Impact Factor: 4.36).
21. **K. Venkata Ratnam**, L.Md. Bakshu, and R.R. Venkata Raju. 2010. Chemical characterization and antimicrobial screening of flowers of *Curcuma neilgherensis* from Eastern Ghats of India. *Chemistry of Natural Compounds*, 46 (3): 484-485. (Impact Factor: 0.89). ISSN: 0009-3130.
22. **Venkata Ratnam, K** and R.R. Venkata Raju. 2009. Preliminary phytochemical and antimicrobial properties of *Pueraria tuberosa* (Willd.) DC.- A potential medicinal plant. *Ethnobotanical Leaflets* 13: 1051-59. ISSN: 1948-3570
23. **Venkata Ratnam, K.** and R.R. Venkata Raju 2008. Traditional medicine used by the Adivasis of Eastern Ghats for Bone fractures. *Ethnobotanical leaflets*. 12: 19-22. ISSN: 1948-3570.
24. **Venkata Ratnam, K** and R.R. Venkata Raju. 2008. *In vitro* antimicrobial activity of *Boswellia ovalifoliolata* Balakr. & Henry leaf extracts. *Journal of Tropical Medicinal plants*. 9 (1): 27-29.
25. Venkata Krishnaiah, P., **K. Venkata Ratnam** and R.R. Venkata Raju. 2008. Preliminary Phytochemical Evaluation of Certain Anticancer Crude Drugs Used by Adivasis of Rayalaseema Region, Andhra Pradesh, India. *Ethnobotanical Leaflets* 12: 693-97.
26. L.Md. Bakshu, **K. Venkata Ratnam**, and R.R. Venkata Raju. 2008. Medicinal Properties and Antimicrobial Activity of *Crotalaria madurensis* Var. *kurnoolica*. *Ethnobotanical Leaflets* 12: 758-62.
27. Johnson Saturas, N.A. **K. Venkata Ratnam**, G. Tirupathi Reddy and R.R. Venkata Raju. 2008. Taxonomic validation of crude drugs used for poisonous bites by Adivasis of rayalaseema region, Andhra Pradesh. *Ethnobotanical Leaflets* 12: 934- 937.
28. **Venkata Ratnam, K** and R.R. Venkata Raju. 2008. *In vitro* antimicrobial screening of the fruit extracts of two *Syzygium*

species (Myrtaceae). *Advances in Biological Research* 2 (1-2): 17-20.

29. **Venkata Ratnam, K** and R.R. Venkata Raju 2006. Uses and antimicrobial properties of certain medicinal plants from Gundlabrahmeswaram wild life sanctuary, Andhra Pradesh. *Journal of Tropical Medicinal Plants*.7: (1): 23-28.
30. **Venkata Ratnam, K** and R.R. Venkata Raju. 2004. Folk medicine from Gundlabrahmeswaram wild life sanctuary, Andhra Pradesh. *Ethnobotany*. 16: 33-39.
31. L. Md. Bhakshu, **K. Venkata Ratnam** and R. R. Venkataraju. 2016. Bio-prospecting of certain medicinal plants for anticandidal activity and phytochemical studies from Eastern Ghats, India. *Indian Journal of Natural Products and Resources*, 7 (1): 25-31. (IF: 0.6).
32. Tetali Sarada Devi, **Kamsala Venkata Ratnam** and Vamsy Krishna Damisetty (2016) Effect of Domestic Processing on Antioxidant Potential of Aqueous Extracts of Fresh and Dry Leaves of *Boerhaavia diffusa* L. *Science Spectrum*, 1 (1): 59-75 (ISSN 2455-5053).
33. **K. Venkata Ratnam**, G.Tirupathi Reddy and R.R. Venkata Raju. 2010. Herbal remedies for eye infections used by the tribals of Nallamala forests, Andhra Pradesh. *Indian Journal of Traditional Knowledge*. 9 (4): 765-767. (IF: 1.09), ISSN: 0975-1068.
34. Venkata Krishnaiah, P., **Venkata Ratnam, K** and R.R. Venkata Raju. 2009. **Multiferous uses of plants by the tribals of Rayalaseema region, Andhra Pradesh. *The Journal of the Indian Botanical Society*. 88 (3 & 4): 62-72.**
35. **Venkata Ratnam, K** and R.R. Venkata Raju. 2008. Folk remedies for insect bites from Gundlabrahmeswaram wild life sanctuary, Andhra Pradesh, India. *Indian Journal of Traditional Knowledge*. Vol. 7(3):436-437. (IF: 1.09) .
36. K.N. Jayaveera, L.Md. Bakshu, **K. Venkata Ratnam**, A. Jeevan Ram and R.R. Venkata Raju. 2008. Chemical characterization and *in vitro* antimicrobial activity of essential oil from the husk of *Bursera penicillata* (Sesse & Moc. ex DC.) Engl. *Journal of Pharmacy and Chemistry*.
37. **Venkata Ratnam, K** and R.R. Venkata Raju. 2005. Folk medicine used for common women ailments by Adivasis in Eastern Ghats of Andhra Pradesh. *Indian Journal of Traditional Knowledge*. 4 (3): 267-270. (IF: 1.09)

Conference Proceedings

38. Helen Kumary, P., G. Meera Bai and **K. Venkata Ratnam** (2018) Weeds diversity in chilli fields of Kurnool district, A.P. India. Proceedings of 2nd International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM-2018), 25th November 2018, ISBN: 978-93-87433-46-5. 74- 79.
39. Helen Kumary, P., G. Meera Bai and **K. Venkata Ratnam** (2018). Weed diversity in Maize crop fields of Kurnool district, A.P., India and their economic uses. *International Journal of Management, Technology And Engineering*, 8 (10): 2508 – 2511.

40. **Venkata Ratnam, K.**, L.Md. Bakshu and R.R. Venkata Raju. 2007. Medico- botanical and antimicrobial properties of certain rare and potential crude drugs from Eastern Ghats of Andhra Pradesh. *EPTRI proceedings*.
41. L. Md. Bhakshu, **K. Venkata Ratnam**, Suresh Babu, M.V. and R. R. Venkataraju. 2017. Evaluation of *Dendrophthoe falcata* leaf extracts for antioxidant, antidiabetic and anticholinergic activities using *In Vitro* studies. Proceedings of National Semimnar on Modern Trendera in Chemistry Research, Department of Chemistry, Govt. College for Men (A), Kadapa, January 27th – 28th, 2017: Page no: 93 – 105. (ISBN no: 978 – 93 – 86251 – 44 -2).

Books / Chapters Pulished

1. Pullaiah, T., Venkata Ratnam, K., Mallappa Kumara Swamy, Lepakshi Md. Bhakshu (2023). Frankincense Gum Olibanum Botany, Oleoresin, Chemistry, Extraction, Utilization, Propagation, Biotechnology, and Conservation. Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
<https://www.appleacademicpress.com/frankincense-gum-olibanum-botany-oleoresin-chemistry-extraction-utilization-propagation-biotechnology-and-conservation/9781774912638>

Book chapters published

2. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**, & R. R. Venkata Raju. Preventive Role and Mechanism of Herbal Medicine in Alzheimer's Disease with Special Reference to Phenolic Compounds. Role of Nutrients in Neurological Disorders, Springer Nature Publications, **2022** (ISBN – 978-981-1681578).
3. **K. Venkata Ratnam**, Lepakshi Md. Bhakshu, and R. R. Venkata Raju. Herbal AQ1 Drugs: Its Mechanism to Prevent Alzheimer's Disease with Special Reference to Non-phenolic Secondary Metabolites. Role of Nutrients in Neurological Disorders, Springer Nature Publications, **2022** (ISBN – 978-981-1681578).
4. **K. Venkata Ratnam**, Lepakshi Md. Bhakshu, and R. R. Venkata Raju. (2022). Mechanism of Action of the Traditional and Modern Phyto-Biotics in the Treatment of Diabetes in the Current Era. Apple Academic Press. **2022**. ISBN: 9781774910085.
5. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**, Deepu Pandita, Anu Pandita, Pulala Raghuvveer Yadav, and R. R. Venkata Raju. (2022). Perspectives of *Syzygium cumini* (L.) Skeels, as a Promising Rational Herbal Medicine for Diabetes. Apple Academic Press. ISBN: 9781774910061.
6. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**, & R. R. Venkata Raju. Bioactives and Pharmacology of *Aegle marmelos* (L.) Correa. Bioactivities and Pharmacology of

Medicinal Plants. Vol. II. Apple Academic Press, 2022. P 15-43. ISBN: ISBN: 9781774910283

7. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**. (2023). Extraction of Oleogum Resin (Frankincense/Olibanum) from *Boswellia* Species. Chapter 3 (p. 41). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
8. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**. (2023). Pharmacognosy of *Boswellia* Species. Chapter 4 (p 69). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
9. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**. (2023). Phytochemistry of *Boswellia* Species. Chapter 5 (p 83). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
10. **K. Venkata Ratnam** and Lepakshi Md. Bhakshu, (2023). Traditional uses and pharmacology of *Boswellia* Species. Chapter 6 (p 151). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
11. **K. Venkata Ratnam** and Lepakshi Md. Bhakshu, (2023). Propagation of *Boswellia* Species. Chapter 7 (p 215). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
12. Lepakshi Md. Bhakshu, **K. Venkata Ratnam** and T. Pullaiah (2023). *Boswellia* Species: Threats and Conservation. Chapter 12 (p 287). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 978177492638 (Hard Copy).
13. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**, and R. R. Venkata Raju. (2023). An Insight of Phytochemical and Pharmacological Prospective of *Senna auriculata* (L.) Roxb. Bioactives and Pharmacology of Legumes. (Chapter 31, Page No. 381). Apple Academic Press. CRC Press, Taylor & Francis, US. ISBN: 9781774911266 (in press).
14. Lepakshi Md. Bhakshu, **K. Venkata Ratnam**, and R. R. Venkata Raju. (2023). A Review on Phytochemistry and Pharmacology of *Cassia fistula* L. (Chapter 12, Page no 161). Apple Academic Press. CRC Press, Taylor & Francis, US. ISBN: 9781774911266.
15. Pulala Raghuvver Yadav, Lepkshi Md. Bhakshu, **K. Venkata Ratnam**, Anu Pandita, Deepu Pandita and K.M. Srinivasa Murthy (2023). *Withania somifera* (L.) Dunal. Chapter 6 (Page no 111). Potent Anticancer Medicinal Plants Secondary Metabolite Profiling, Active Ingredients, and Pharmacological Outcomes. Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 9781774913116 (Hard Cover).
16. Lepkshi Md. Bhakshu, Pulala Raghuvver Yadav, **K. Venkata Ratnam**, Anu Pandita, Deepu Pandita and K.M. Srinivasa Murthy (2023). *Tinospora cordifolia* (Thunb.) Miers. Chapter

		<p>10 (Page no 203). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 9782774913116 (Hard Cover).</p> <p>17. Venkata Ratnam, K, Lepkshi Md. Bhakshu, Pulala Raghuvveer Yadav, Anu Pandita, Deepu Pandita and K.M. Srinivasa Murthy (2023). <i>Taxus brevifolia</i> (Nutt.) Pilger. Chapter 11 (Page no 223). Apple Academy Press, CRC Press, Taylor & Francis, US. ISBN: 9782774913116 (Hard Cover).</p> <p>18. Lepakshi Md. Bhakshu, K. Venkata Ratnam, and R. R. Venkata Raju. (2023). Phytochemical and Pharmacological Appraisal of <i>Cassia angustifolia</i> Vahl. (Syn.: <i>Senna alexandira</i> Mill.) L. Apple Academic Press, CRC Press, Taylor & Francis, US. ISBN:</p> <p>19. Lepakshi Md. Bhakshu, K. Venkata Ratnam, and R. R. Venkata Raju (2024). Bioactives and Pharmacology of <i>Mallotus philippensis</i> Müell. Arg. Apple Academic Press, CRC Press, Taylor & Francis, US. Pp.103. ISBN: 978-1-77491-529-5.</p>
18	Profile ID's	<p>ORCID: 0000- 0002-8677 - 1345</p> <p>Google Scholar Profile Link: K Venkata Ratnam - Google Scholar</p> <p>VIDWAN Profile ID: 0000</p>

K. Venkate Ratnam

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