

Dr. Rajeswara Reddy Saddala

Assistant Professor
Department of Biotechnology
School of Herbal Studies and Naturo
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PERSONAL INFO

DOB: 18-08-1980

Father Name: S. Prathap Reddy

Nationality: Indian Hindu Marital Status: Married

Curriculum Vitae

Academic Qualification: M.Sc., Ph.D.

2006-2009: Ph.D. (Zoology) (S.V. University)

2003-2005: M.Sc. (Zoology) (75%) (S.V. University) 1997-2000: B.Sc. (B.Z.C) (62%) (S.K. University)

Academic positions held:

2010 - till now: Assistant Professor, Dept. of Biotechnology, Dravidian University, Kuppam, India

EXPERIENCES

- a. University Services/Administrative Experience
 - 1. Served as ASSISTANT DEAN, Academic Affairs
 - 2. Serving as ASSISTANT DIRECTOR, IQAC
 - 3. Served as NODAL OFFICER
 - 4. Serving as WEBSITE OFFICER
 - 5. Serving as Member Secretary, IAEC, DU, Kuppam
 - 6. Serving as COORDINATOR for M.SC Zoology
 - 7. Served as COORDINATOR for M.SC Microbiology
 - 8. Serving as COORDINATOR for DDE Zoology

Significant Membership and participation in academic, administration and Research committees in Dravidian University

Member in

- 1. Internal Technical Expert Committee-RUSA 2.0
- 2. RUSA proposal scrutinizing committee
- 3. IQAC Committee
- 4. Committee related to DDE Off-Campus M. Phil/Ph. D issues
- 5. Preparation of Report on Academic Overview and campus Development
- 6. IAEC
- 7. Central Purchase Committee (CPC)
- 8. Ex-Officio Member in BOS for M.Sc., Zoology course
- 9. NAAC steering committee

b. Teaching Experience:

I have 12 years teaching experience as an Assistant Professor in handling theory and practical classes to M.Sc. Biotechnology and M.Sc. Zoology students, Dept of Biotechnology, Dravidian University, Kuppam (From October 2010).

Courses taught

Animal Biotechnology & Environmental Biotechnology Biophysical and Biochemical Techniques Enzymology and Metabolism Molecular Microbiology Wild Life Conservation Molecular Genetics & Evolution

c. Research experience:

Area of Interest in Research

- Ethnopharmacological studies,
- Animal Biotechnology,
- Isolation studies of bioactive compounds,
- Diabetic Oxidative stress,
- · Biochemistry and pesticide toxicology,
- Gene Co-Expression Network Analysis approaches,
- Biosynthesis of Nano particles and study their applications.

Ph. D theses: 2006-2009

Title of the Ph.D theses: A study on the screening of antihyperglycemic and antioxidant properties of Pimpinella tirupatiensis tuberous root in rat cardiac tissue in response to STZ - induced diabetic condition

i. Research guidance

Guided: 3 Ph.D. students

1. Mr. Rajasekhar Gutha: Awarded in December 2017

Ph. D topic: "Biochemical analysis of stress responses in catla catla and Transcriptome analysis of stress responses in Danio rerio"

2. Mr. Suresh Yerrappagari: Awarded in July 2019

Ph. D topic: "Isolation of active principle (s) by bioassay-guided fractionation ofexploratory studies on antioxidant properties ofin rat cardiac tissue in response to STZ - induced diabetic stress"

3. Mr. Lakshmi Narashimhulu: Awarded in November 2019

Ph. D topic: "A study on the screening of in vitro and in vivo antidiabetic properties of....... in STZ-induced diabetic rats"

Project dissertation

14 M.Sc. Biotech Students are completed their project work under my Supervision

ii. Publications

Total publication Metrics (From 2009 to 2022)

Total Publications: 30 International: #20,

National: #10

5 years publication Metrics (From 2017 to 2022)

Total Publications:18 International: #15

National: #3

iii. Research Papers presented in International & National Seminars & Conferences.

Total: (21), International: (#5), National (#11) Invited Talks (#5) (#1 International, #4 National)

iv. Workshops/Conferences/Seminars/Symposia attended:

Total: (13), International: (#6), National (#7)

d. Professional Experiences

Professional Services/Editorial services/Membership in Scientific communities Membership in Scientific communities

i. Editorial Services

- Served as a Reviewer for Electronic Journal of Biotechnology (IF-2.6)
- Served as a Reviewer for the Iranian Journal of Pharmaceutical Research (IF 1.6)
- Served as an Associate Editor and Reviewer for the International Journal of Pharmacognosy and Phototherapy-
- Served as an Editorial Board Member and Reviewer for International Journal of Pharmacy and Pharmaceutical Sciences
- Served as a Reviewer for NISCAIR-CSIR-Indian Journal of Biochemistry and Biophysics

ii. Professional Activities

- 1. March 27th to 29th 2014: Organized three-day UGC Sponsored National Seminar on Present Status and Future Prospects of Modern Biotechnology and their Applications
- 2. March 28th to 29th 2019: Organized two-day UGC Sponsored National Seminar on Current Status and Future Prospects in Life Science Research

iii. Memberships

Member of the International Society of Zoological Sciences (Membership No: 1516-I)

iv. Honours and Awards

AWARD OF EXCELLENCE IN RESEARCH from Iinternational Faculty Award 2021-2022 (May 26, 2022), NOVEL RESEARCH ACADEMY, Puducherry, India.

BEST RESEARCHER AWARD from ISAC 2021 (International Scientist Awards, Coimbatore-2021), VDGOOD Professional Association.

ASSOCIATE FELLOW OF ANDHRA PRADESH ACADEMY OF SCIENCES for the year 2019 in Life sciences

OUTSTANDING FACULTY AWARD from VIFA-2016, Chennai (Venus International Foundation, Chennai).

e. Training / In-service / Refresher etc., Programmes attended

Name of the	Place	Duration	Period		Sponsoring
Course			From	То	Agencies
Refresher Course in Women Studies	HRDC, S. V. University, TPT	21 Days (108 hours)	10-08-15	29-08-15	UGC
Orientation Programme	Academic Staff College, S. V. University, TPT	28 days (144 hours)	25-11-13	21-12-13	UGC
ARPIT on Disaster Management (MOOCs Course	SWAYAM Offered by Nagpur University	Equivalent to 21 days refresher course	21-11-18	28-02-19	UGC, MHRD
Refresher Course in Life Sciences	HRDC, S. V. University, Tirupati	2 weeks	09-12-19	21-12-19	UGC
ARPIT on Teacher and Teaching in Higher Education (MOOCs Course	SWAYAM Offered by Savitribai Phule Pune University	Equivalent to 21 days refresher course	01-09-19	31-12-19	UGC, MHRD
FDP on Building Competencies for Online Teaching	National Institute of Educational Planning and Administration (NIEPA), New Delhi	One week	03-08-20	07-08-20	NIEPA

Online Workshops/ Webinars/ Training Programmes attended

Name of the	Place	Duration	Period		Sponsoring
Course			From	То	Agencies
Two Day Online Workshop on "Online Tools & Software for Remote Teaching - Learning	UGC-HRDC, JNTUH, Hyderabad	2 days	24-04-20	25-04-20	UGC
International Webinar on "Post Covid-19 Scenario on Educational System	Department of Botany and Zoology, SVSSC Government Degree College, Sullurpet	One day	29-05-20		SVSSC GDC, Sullur peta
International Webinar on "Science and Technology for Sustainable Development - Women Empowerment	Dept of Biotechnology, SPMVV, Tirupati &ISCA Tirupati Chapter	One day	29-10-20		ISCA, SPMVV
International Webinar on New Horizons in Cancer Biology and Therapeutics	Dept of Zoology, S.V. University, Tirupati &ISCA Tirupati Chapter	Two days	06-02-21	07-02-21	S.V. U & ISCA

RESEARCH PUBLICATIONS (National and International): Total (From 2009 to till date):30, International: (#20), National: (#10)

2022

- 1. Suresh Yarrappagaari, Lavanya Thopireddy, Srinivasulu Cheemanapalli, Venkata Rami Reddy Narala, Kakarla Chandra Mohan, and Rajeswara Reddy Saddala. Phytochemical Analysis of Cleome viscosa Active Polyphenolic Compounds Possessing Antidiabetic Activity. Pharmacognosy Research. April, 2022, 14(2):195-203. ISSN: Print -0976-4836, Online 0974-8490. Publisher: Medknow Publications. (UGC-CARE List Group II Journal) DOI: 10.5530/pres.14.2.28
- 2. Harini SS, Shobha Rani T, Sougandhi Pr, Rajeswara Reddy S and Venkata Reddy G. Green synthesis of silver nanoparticles using Piper betle (I) var. Sirugamani 1(sgm1) leaf extract: characterization, antidiabetic and anti- inflammatory activities. International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), April, 2022, 11(4): 2024-2041. ISSN: 2277-4998. Publisher: IJBPAS. (UGC-CARE List Group II Journal) https://doi.org/10.31032/IJBPAS/2022/11.4.6041

2021

3. Rajasekar G, Suresh Y, Lavanya T, Mohiyuddin Ss and Reddy Sr (Corresponding Author). Co-Expression Network Analysis Identifies Gene Modules Associated with Multiple A biotic Stress Responses in Zebrafish. International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS) (2021), 10(6): 1812-1840. ISSN: 2277-4998. Publisher: IJBPAS. (UGC-CARE List Group II Journal) https://doi.org/10.31032/IJBPAS/2021/10.6.5501

2020

- 4. Yarrappagaari Suresh, Gutha Rajasekar, Thopireddy Lavanya, Benne Lakshminarsimhulu, Kesireddy Sathyavelu Reddy, Rajeswara Reddy Saddala (Corresponding Author). Antioxidant and antidiabetic properties of isolated fractions from methanolic extract derived from the whole plant of Cleome viscosa L. Future Journal of Pharmaceutical Sciences (Future J. Pharm. Sci) (Citations: 6) (2020) 6:103. ISSN: 2314-7253. Publisher: Springer. (UGC-CARE List Group II Journal). https://doi.org/10.1186/s43094-020-00122-1
- 5. Suresh Yarrappagaari, Rajasekar Gutha, Lohitha Narayanaswamy, Lavanya Thopireddy, Lakshminarsimhulu Benne, Syed Siraj Mohiyuddin, V. Vijayakumar, Rajeswara Reddy Saddala (Corresponding Author). Eco-friendly synthesis of silver nanoparticles from the whole plant of Cleome viscosa and evaluation of their characterization, antibacterial, antioxidant and antidiabetic properties. Saudi Journal of Biological Sciences. (2020) Volume 27 (12), P. No: 3601-3614 (Impact factor-4.219, Citations: 10) Publisher: Elsevier. (UGC-CARE List Group II Journal). PMID: 33304171 https://doi.org/10.1016/j.sjbs.2020.07.034.
- 6. Lohitha Narayanaswamy, Suresh Yarrappagaari, Srinivasulu Cheemanapalli, Rajeswara Reddy Saddala and V. Vijayakumar. Synthesis, characterization, and hypoglycemic efficacy of nitro and amino acridines and 4-phenylquinoline on starch hydrolyzing compounds: an in silico and in vitro study. Structural Chemistry (2020). 31:2063-2074 (Impactfactor-2.081, Citations: 02). Publisher: Springer (UGC-CARE List Group II Journal). https://doi.org/10.1007/s11224-020-01529-5

2019

7. L. Jyothish Kumar, Y. Suresh, R. Rajasekaran, S. Rajeswara Reddy, V. Vijayakumar. Synthesis and exploration of in-silico and in-vitro a-glucosidase and a-amylase inhibitory activities of N-(3-acetyl-2-methyl-4-phenylquinolin-6-yl) arylamides (2019). Journal of the Iranian Chemical Society 16(5), 1071-1080 (Impact factor-2.019, Citations: 01). ISSN: 1735-207X (Print) 1735-2428 (Online). Publisher: Springer. (UGC-CARE List Group II SCIE Journal). https://doi.org/10.1007/s13738-018-01580-4

8. Benne Lakshmi Narsimhulu, Yarrappagaari Suresh, Gutha Rajasekar, Thopireddy Lavanya, Gundala Harold Philip, Syed Siraj Mohiyuddin and Saddala Rajeswara Reddy. Evaluation of hepatoprotective and nephroprotective activity of methanolic extract of Cleome viscosa and Cleome gynandra in STZ-induced diabetic rats. The Pharma Innovation Journal 2019; 8(2): 574-581. ISSN (E): 2277-7695 ISSN (P): 2349-8242. UGC listed Journal no: 46096. Publishers: AkiNik Publications.

https://www.thepharmajournal.com/archives/?year=2019&vol=8&issue=2&ArticleId=3079

2018

- 9. Gutha Rajasekar, Yarrappagaari Suresh, Thopireddy Lavanya, Kesireddy Sathyavelu Reddy, Saddala Rajeswara Reddy (Corresponding Author). Effect of Abiotic and Biotic Stress Factors Analysis Using Machine Learning Methods in Zebrafish. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics. Part D. 25 (2018) 62-72 (Impact factor- 3.011, Citations: 03). ISSN: 1744-117X. Publisher: Elsevier Bv. (UGC-CARE List Group II Journal). PMID: 29156228 https://doi.org/10.1016/j.cbd.2017.10.005
- 10. Benne Lakshminarsimhulu, Yarrappagaari Suresh, Gutha Rajasekar, Thopireddy Lavanya, Syed Siraj Mohiyuddin, Saddala Rajeswara Reddy (Corresponding Author). Enzymatic and nonenzymatic antioxidant activities of Cleome viscosa and Cleome gynandra whole plant methanolic extracts in streptozotocin-induced diabetic rats. International Research Journal of Pharmacy (IRJP). Volume 9, Issue 6; 118-124 (2018). ISSN 2230-8407. UGC Listed Journal no: 7863. Publishers: Moksha Publishing House. DOI: 10.7897/2230-8407.096101.
- 11. Yarrappagaari Suresh, Gutha Rajasekar, Benne Lakshmi Narsimhulu, Thopireddy Lavanya, Gundala Harold Philip and Saddala Rajeswara Reddy (Corresponding Author). Quantitative determination of phytochemical constituents and evaluation of acute antihyperglycemic activity of four various extracts of Cleome viscosa whole plant in STZ-induced diabetic rats. The Pharma Innovation Journal (TPI). Volume 7, Issue 10: 30-35 (2018). ISSN (E): 2277- 7695. UGC listed Journal no: 46096. Publishers: AkiNik Publications:
 - https://www.thepharmajournal.com/archives/?year=2018&vol=7&issue=10&ArticleId=2563
- 12. Yarrappagaari Suresh, Gutha Rajasekar, Saddala Rajeswara Reddy (Corresponding Author), Benne Lakshmi Narashimhulu, Thopireddy Lavanya, Mustrahally Raj Gopal, Bathula Srinivas. Evaluation of Free radical scavenging activity of four various solvent extracts from Cleome viscosa whole plant. International Journal of Innovative Pharmaceutical Sciences and Research. 6(3), 2018, 76-89 (2018). ISSN (Online): 2347-2154. UGC listed Journal no: 44683. Publishers: IJIPSR. DOI: 10.21276/IJIPSR.2018.06.02.673

13. Gutha Rajasekar, Thopireddy Lavanya, Saddala Rajeswara Reddy (Corresponding Author). Review of the status of Aquaculture Toxicogenomics. Indian journal of Comparative Animal Physiology. Vol.36: p.115-116, 2018, (2018). ISSN: 0255-7150. Publishers: Indian Society for Comparative animal Physiology (Peer Reviewed)

2017

- 14. Gutha Rajasekar, Yarrappagaari Suresh, Benne Lakshmi Narsimhulu Thopireddy Lavanya, Saddala Rajeswara Reddy (Corresponding Author). Effect of sub-lethal exposure to copper on oxidative stress and antioxidant defences in Catla catla L. International Journal of Pharma and BioSciences. July; 8(3): (B) 787-795 (2017). ISSN: 0975-6299. UGC listed Journal no: 43438. Publisher: P. Muthuprasanna Pub. & Ed. DOI: ttp://dx.doi.org/10.22376/ijpbs.2017.8.3.b787-795
- 15. Gutha Rajasekar, Yarrappagaari Suresh, Thopireddy Lavanya, Saddala Rajeswara Reddy (Corresponding Author). Evaluation of Copper Acute Toxicity in Common Carp (Catla Catla L.). International Journal of Science and Research (IJSR). July; 6 (7): 192-195 (2017). ISSN (Online): 2319-7064. Publisher: IJSR. (Peer Reviewed) Paper ID: ART20175091
- 16. S. Rajeswara Reddy (Corresponding Author), T. Lavanya and K. Sathyavelu Reddy. Effect of ethanol extract of *Pimpinella tirupatiensis* on cardiac tissue and kidney histology of STZ-induced diabetic rat. Indian journal of Comparative Animal Physiology. Vol.35: p.99-108, 2017, (2017). ISSN: 0255-7150. Publisher: Indian Society for Comparative animal Physiology. (Peer Reviewed)
- 17. S. Rajeswara Reddy (Corresponding Author), T. Lavanya and K. Sathyavelu Reddy. Antioxidant effect of ethanol extract of Pimpinella tirupatiensis on STZ-induced diabetic rat cardiac tissue. Indian journal of Comparative Animal Physiology. Vol.35: p.89-97, 2017, (2017). ISSN: 0255-7150. Publisher: Indian Society for Comparative animal Physiology. (Peer Reviewed)

2015

18. Saddala Rajeswara Reddy (Corresponding Author), Thopireddy Lavanya and Kesireddy Sathyavelu Reddy. Dosage response of Pimpinella tirupatiensis tuberous root extract on hyperglycemic condition in stz- induced diabetic rats with references to short- and long-term treatment. International Journal of Pharmacy and Pharmaceutical Science. 7(2): (B) 389 - 392 (IF-0.91 ICV) (2015). ISSN: 0975-1491. UGC listed Journal no: 23339. Publisher: Innovare Academic Sciences Pvt Ltd.

19. D. Veera Nagendra Kumar, K.R. Shanmugam, Ch. Ramakrishna, G. Narasimhulu, T. Lavanya, S. Rajeswara Reddy, K. Sathyavelu Reddy. Neuroprotective effect of Pimpinella tirupatiensis tuberous root aqueous extract on brain antioxidant status in STZ-induced diabetic rats. World Journal of Pharmaceutical Research. Volume 4, Issue 10, 2424-2435 (2015). ISSN: 2277-7105. UGC listed Journal no: 47332. Publisher: World Journal of Pharmaceutical Research.

2014

20. Mustrahally Raj Gopal, Avulamandha Balakrishna, Saddala Rajeswara Reddy, Bathula Sinivas. "Factors influencing agrobacterium-mediated transient expression of uid a in Cassia occidentalies linn explants". International Journal of Pharma and Bio Sciences (Int J Pharm Bio Sci) 2014 Jan; 5(1): (B) 840 - 855, (2014) ISSN: 0975-6299. UGC listed Journal no: 43438. Publisher: P. Muthuprasanna Pub. & Ed

2013

21.5. Rajeswara Reddy, T. Lavanya, G. Narashimhulu and K. Sathyavelu Reddy. Regulation of cardiac oxidative stress and lipid peroxidation in streptozotocin-induced diabetic rats treated with aqueous extract of Pimpinella tirupatiensis tuberous root. Experimental and Toxicological Pathology. 65 (2013) 15-19. (Impact Factor-2.622, Citations: 70). ISSN: 0940-2993, UGC listed Journal no: 29079. Publisher: Elsevier Gmbh, Urban & Fischer Verlag. PMID:21640568: DOI: 10.1016/j.etp.2011.05.003

2012

- 22. Rajeswara Reddy. S (Corresponding Author), T. Lavanya, G. Narashimhulu and K. Sathyavelu Reddy. Effect of Pimpinella tirupatiensis on oxidative enzymes in STZ-induced diabetic rat kidney. Iranian journal of Pharmaceutical Research (Impact Factor-1.704, Citation: 21) (2012), 11 (1): 277-286: ISSN: 1726-6890. Publisher: Shaheed Beheshti Univ, Sch Pharmacy. (UGC-CARE List Group II Journal): PMID: 24250450
- 23. G. Narashimhulu, T. Lavanya, S. Rajeswara Reddy, K. Mallikarjuna, P. Visweswara Rao, Aishan Adam and K. Sathyavelu Reddy. Pharmacological effects of Pimpinella tirupatiensis on altered urea cycle and liver markers in diabetic rats. International journal of pharmachology.8 (5):382-388, 2012, (2012). ISSN: 1812-5700, (Ciation: 2). UGC Journal no: 23336. Publisher: Asian Network Scientific Information-Ansinet. (Peer Reviewed)
- 24. Ganapathi Narashimhulu, Aishan Adam, Thopireddy Lavanya, Saddala Rajeswara Reddy, and Kesireddy Sathyavelu Reddy. Protective effects of Pimpinella tirupatiensis bal. and subr. an endangered medicinal plant of tirumala hills against streptozotocin generated oxidative stress induced diabetic rats. International Research journal of pharmacy. 2012. 3 (7): 308-314. (2012). ISSN: 2230-8407. UGC listed Journal no: 7863. Publisher: Moksha Publishing House. (Peer Reviewed)

2011

25. G. Narasimhulu, T. Lavanya, S. Rajeswara Reddy and K. Sathyavelu Reddy. Exploratory studies on protective role of *Pimpinella tirupatiensis* tuberous root extract against oxidative damage in the liver of diabetic induced rats. NCOSCH - 2011. Oxidative Stress and Its Complication in Human Health (Proceedings). 19-20-January, 2011 pp. 20-25, (2011).

2010

- 26. T. Lavanya, S. Rajeswara Reddy, G. Narasimhulu, K. Sathyavelu Reddy. Effect of Pimpinella tirupatiensis tuberous root extract restore alterations in renal carbohydrate metabolic profile in STZ induced diabetic rats. The Bioscan, 5(4):635-638, (2010). ISSN: 0973-7049. Publisher: National Environmentalists Association. (Peer Reviewed)
- 27. V. Chand Basha, S. Siraj Mohiyuddin, S. Rajeswara Reddy and L. Ananda Kumar. A retrospective study of organo phosphorus compound poisonings in tertiary hospital in Hyderabad region. Indian Journal of Forensic Medicine &Toxicology. Vol 4, Number 1, 6-8 (2010). P-ISSN: 0973-9122 and e-ISSN: 0973-9130. (Citations: 6). Publishers: Dr. R K Sharma. (UGC Care List Group II journal)
- 28. T. Lavanya, S. Rajeswara Reddy, G. Narasimhulu, K. Sathyavelu Reddy and J. Lakshmana Rao. Oxidative Stress Markers Measurement by Electron Paramagnetic Resonance Spectroscopy (EPR) in Rats with Reference to Streptozotocin Induced Diabetes. J. Pure & Appl. Phys., Vol. 22, No. 1, Jan. Mar., 2010, pp. 135-141, (2010). ISSN 0974 8970. Publisher: Pure & Appl. Phys, JNTU. (Peer Reviewed)
- 29. Siraj Mohiyuddin. 5, Rajeswara Reddy. S, L. Aanda Kumar and Jacob Doss. P. Acephate induced alterations in Mg2+ and Na+ K+ ATPases of different brain regions of albino rats. Journal of Bioscan, (2010) Vol 5, Number 1,153-156. ISSN NO: 0973-7049. (Citations: 14). Publishers: National Environmentalists Association. (Peer Reviewed)

2009

30. Siraj Mohiyuddin. **S.** Rajeswara Reddy. S and Jacob Doss. P. Acephate induced ultrastructural changes in different brain regions of albino rats. The Bioscan. (2009) vol 4, Number 4, 573-576. ISSN NO: 0973-7049. Publisher: National Environmentalists Association. (Peer Reviewed)

Research Papers presented in International & National Seminars & Conferences.

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Total: (13), International: (#7), National (#7)