



DEPARTMENT OF ZOOLOGY, KAKATIYA UNIVERSITY

LIST OF PUBLICATIONS

DR. G. SHAMITHA

1. Kangayam M Ponnuvel , Joachim R de Miranda , Olle Terenius, Wenli Li, Katsuhiko Ito, Diksha Khajje , **G Shamitha**, Anupama Jagadish ¹ , Himanshu Dubey , Rakesh K Mishra **(2022)** Genetic characterisation of an Iflavirus associated with a vomiting disease in the Indian tropical tasar silkworm, *Antheraea mylitta*. 2022 January 30;311:198703. doi: 10.1016/j.virusres.2022.198703.
2. U.Swamy and **G.Shamitha** (2021) Quantitative estimation of proteins in different tissues of V instar larvae, cocoon and yielded silk of tasar silkworm, *A.mylitta* D (Daba BV) treated by polyamines (spermidine, spermine and putrecine), *The American J of Science and Medical Research*, 2021 : 7(1), 1-9
3. G. Renuka and **G. Shamitha*** (2021) Studies on Genetic Diversity and Population Structure of Tasar Silkworm, *Antheraea mylitta*.Drury. "**Research Journal of Biotechnology**". Vol.16 (7) July; Pp: 101-113. **UGC Approved Journal**.
4. G. Renuka and G. Shamitha* (2021) Next-Generation Sequencing (NGS) in populations of Indian Tropical Tasar Silkworm, *Antheraea mylitta*. **Biosc. Biotech. Res. Comm.** Vol. 14; No (2) April-May-June; Pp: 661-667.**UGC Approved Journal**
5. G. Renuka and G. Shamitha* (2022) NGS Studies and Quantitative Assessment of Cocoon Traits in F1 and F2 Hybrid Populations of Tasar Silkworm, *A. mylitta*. **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)**.April 2022. Manuscript Reference Number: MS/IJBPAS/2022/6020.
6. **G. Renuka** and G. Shamitha* (2022) Comparative Study of Rearing Performance in F1 and F2 Hybrid Populations Of Tasar Silkworm, *Antheraea mylitta*. **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)**.April 2022. Manuscript Reference Number: MS/IJBPAS/2022/6020.
7. Reshma Rajan, Shampa Deb Chanda, Alekhya Rani, Renuka Gattu, **Shamitha Vodithala** and Anitha Mamillapalli. Bacterial Gut Symbionts of *Antheraea mylitta* (Lepidoptera: Saturniidae). *J. Entomol. Sci.* 55(1): 137–140 **(January 2020)** <https://doi.org/10.18474/0749-8004-55.1.137>.

8. Sreenivas. M, Renuka.G and Shamitha. G* (2019) Genomic DNA Isolation and Quantification in various ecoraces of Tasar Silkmooths *Antheraea mylitta*.D. International Journal of Engineering Applied Sciences and Technology, Vol.4, Issue No.2455-2143, Pages 295-300, August.
9. Renuka G, NagaTeja Natra and Shamitha G*(2018) "Development of EST-derived SSR markers for tasar ecoraces and their application in genetic diversity analysis" Nature Environment and Pollution Technology (p-ISSN 0972-6268; e-ISSN 2395-3454). Vol. 17, No. 4 (December).
10. Sreenivas. M, Renuka.G and Shamitha. G* (2018) Phylogenetic Analysis of Tasar Ecoraces and Hybrid Populations as Revealed Through SSR Markers. International Journal of Zoology and Applied Biosciences. Vol.3, Issue.3, pp: 402-409.
11. G. Shamitha* (2018) Studies on Genetic Variability of Tasar Ecoraces as Revealed through Microsatellite Markers. European Journal of Biomedical and Pharmaceutical Sciences. Vol.5, Issue.2, pp: 1057-1066.
12. G. Renuka and G. Shamitha* (2017) Phylogenetic analysis of Tasar Silkworm, *Antheraea mylitta* using SSR and ISSR primers. International Journal of Zoology Studies. Vol.2, Issue.6, pp: 220-226, Nov.
13. G. Renuka and G. Shamitha* (2017) Genetic Diversity and Differentiation among Populations of the Tasar Silkworm, *Antheraea mylitta* Drury, Revealed by ISSR Markers (Lepidoptera: Saturniidae). International Journal of Pharmacy and Biological Sciences. Vol.7, Issue.4, pp: 20-28, Oct-Dec.
14. Renuka gattu, Sreenivas Manda and Shamitha Gangupantula* (2017) Breeding perspective for silk quality in tropical tasar silkworm, *Antheraea mylitta* Drury. Asian Journal of Biological and Life Sciences, Vol.6, Issue.1, pp: 347-357, Jan-Apr.
15. Sreenivas. M and Shamitha. G* (2017) Rearing performance and quantitative assessment of F1 and F2 hybrids of Tasar silkworm, *Antheraea mylitta* Drury. International Journal of Innovative Research in Science , Engineering and Technology, Vol. 6, Issue 9, September, 2017, pp 18637 -18647
16. Sreenivas. M and Shamitha. G* (2017) Comparative Study on rearing performance, larval and post-cocoon characters of Tasar silkworm, *Antheraea mylitta* Drury ecoraces (*Sukinda*, *Daba-TV* and *Andhra local*) Journal of Entomology and Zoology Studies 5(2): 1348-1356.
17. Sreenivas. M and Shamitha. G* (2017) Genetic diversity and phylogenetic relationship as revealed by inter simple sequence repeat (ISSR) polymorphism in the different Ecoraces of Indian tropical tasar silkworm, *Antheraea mylitta* drury. International Research Journal of Biological Sciences Vol. 6(4), 1-7, April (2017).

DR. ESTARI MAMIDALA

1. Rakesh Davella, Estari Mamidala. Molecular Docking and Dynamic Simulation Studies of Compounds from *Rumex Vesicarius* Against Maltase-Glucoamylase to Treat Type 2 Diabetes. *Annals of RSCB* 2021, 25(6), 21062-21077
2. Mamidala E, Davella R, Praveen Kumar M, Swamy S, Abhiav M, Ali Kaimkhani Z, Al-Ghanim KA, Mahboob S. *In silico* Prediction of Mozenavir as a potential drug for SARS-CoV-2 infection via Binding Multiple Drug Targets. *Saudi J Biol Sci.* 2021 Oct 18. doi: 10.1016/j.sjbs.2021.10.023.
3. Davella, R. and Mamidala, E. 2021. Luteolin: A Potential Multiple Targeted Drug Effectively Inhibits Diabetes Mellitus Protein Targets. *Journal of Pharmaceutical Research International.* 33, 44B (Sep. 2021), 161-171. DOI:<https://doi.org/10.9734/jpri/2021/v33i44B32661>
4. Rakesh Davella, Swapna Gurrupu, **Estari Mamidala**, Phenolic compounds as promising drug candidates against COVID-19 - an integrated molecular docking and dynamics simulation study, *Materials Today: Proceedings*, 2021, <https://doi.org/10.1016/j.matpr.2021.05.595>.
5. **Estari Mamidala**, Rakesh Davella, Pujala Shivakrishna. Spermine phosphate Inhibits the SARS-CoV-2 Spike–ACE2 Protein-Protein Interaction—as an in silico approach contribute to its antiviral activity against COVID-19. *Annals of R.S.C.B.*, ISSN: 1583-6258, Vol. 25, Issue 5, 2021, Pages. 4814 – 4827. <https://www.annalsofrscb.ro/index.php/journal/article/view/5933>
6. Ameen, Fuad, **Estari Mamidala**, Rakesh Davella, and Shravan Vallala. "Rilpivirine inhibits SARS-CoV-2 protein targets: A potential multi-target drug." *Journal of Infection and Public Health* 14, no. 10 (2021): 1454-1460.
7. **Estari Mamidala**, Rakesh Davella , Swapna Gurrupu and Pujala Shivakrishna , In Silico Identification of Clinically Approved Medicines Against the main Protease of Sars-Cov-2 – A Causative Agent of Covid-19.(2021). *Int. J. Life Sci. Pharma Res.* 11(1), L107-122. <http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.1.L107-122>).
8. Munipally Praveen Kumar, **Estari Mamidala**, Khalid A. Al-Ghanimb.Al-Misnedb Shahid Mahboob. Evaluation of the Andrographolides role and its indoleamine 2,3-dioxygenase inhibitory potential and attendant molecular mechanism against STZ-induced diabetic rats. *Saudi Journal of Biological Sciences*, 2020, 27 (2); 713-719. <https://doi.org/10.1016/j.sjbs.2019.12.007> (Q1 Journal; 2.82 IF).
9. Munipally Praveen Kumar, Poornima, **Estari Mamidala**, Khalid Al-Ghanim, Fahad Al-Misned, Zubair Ahmed, Shahid Mahboob. Effects of D-Limonene on aldose reductase and protein glycation in diabetic rats. *Journal of King Saud University-Science.* 2020; 32(3), 1953-1958. <https://doi.org/10.1016/j.jksus.2020.01.043>

10. G. Swapna, D. Rakesh and **M. Estari**. In-Silico Molecular Docking Analysis Of Andrographolide Derived From Andrographis Paniculata As Potential Anti-Hiv Agent Targeting Hiv-1 Reverse Transcriptase. *Rasayan Journal of Chemistry*, 2020; 13 (4); 2588-2594.
<http://dx.doi.org/10.31788/RJC.2020.1345889>,
<http://www.rasayanjournal.co.in/archiveissue.php?issueid=57>
11. **Estari Mamidala**, Rakesh Davella and Swapna Gurrapu. An *In Silico* Approach for Identification of Inhibitors as a Potential Therapeutics Targeting Sars-Cov-2 Peptidase. *Asian Jr. of Microbiol. Biotech. Env. Sc.* Vol. 22, No. (3): 2020: 491-496.
http://www.envirobiotechjournals.com/article_abstract.php?aid=10831&iid=318&jid=1
12. **Mamidala, Estari**; Davella, Rakesh; Gurrapu, Swapna. An in silico approach for identification of inhibitors as a potential therapeutics targeting SARS-Cov-2 protease *Asian J. Pharm. Res. Health Care* ; 1(12): 3-9, 2020.
<http://dx.doi.org/10.18311/ajprhc/2020/25080>.
13. Komal Daipule, Nerella Sridhar Goud, Aaftaab Sethi, Swapna Gurrapu, **Estari Mamidala**, Mallika Alvala. Synthesis, molecular docking simulation, and biological evaluation studies of novel amide and ether conjugates of 2,3-diaryl-1,3-thiazolidin-4-ones. *Journal of Heterocyclic Chemistry*. 2020; 57(2); 774-790.
<https://doi.org/10.1002/jhet.3819>. IF=1.484
14. **Mamidala, E.**, Davella, R., Gurrapu, S., and Shivakrishna, P. (2020). In silico identification of clinically approved medicines against the main protease of SARS-CoV-2, causative agent of covid-19. arXiv [Preprint]. <https://arxiv.org/abs/2004.12055v1>
15. Davella, Rakesh, and Estari Mamidala. "In silico Molecular Docking Studies of meroditerpenoids of *Stypopodium flabelliforme* against FOXO1." *The American Journal of Science and Medical Research* (2020), 6(1); 12-15
16. D, Komal; Goud, Sridhar; Gurrapu, Swapna; Mamidala, Estari; Alvala, Mallika. Synthesis, biological evaluation and molecular modelling studies of novel amide and ether conjugates of 2, 3-diaryl-1, 3-thiazolidin-4-ones as HIV-RT inhibitors. *J Heterocyclic Chem.* 2019;1–17. <https://doi.org/10.1002/jhet.3819>
17. Davella, Rakesh, and Estari Mamidala. "*In silico* Molecular Docking Studies of compounds from *Rumex vesicarius* against Pancreatic α -Amylase." *The American Journal of Science and Medical Research* 5.4 (2019): 1-10.
18. Davella, Rakesh, and Estari Mamidala. "Molecular docking of flavonoids from *Rumex vesicarius* with FOXO1 target related to Diabetes mellitus." *Biolife* 7.4(2019):7-13
19. Davella Rakesh, and **Estari Mamidala**. "In silico Molecular Docking Studies of compounds from *Rumex vesicarius* against GFAT1." *Biolife* 6.3 (2018): 7-13.

20. Swapna Gurrapu and **Estari Mamidala** (2018). An ethnobotanical survey of medicinal plants used by traditional Healers of Perkapally, Karimnagar district, Telangana, India, *Int. J. of. Life Sciences*, Volume 6(3): 789-794.
21. Swapna Gurrapu and **Estari Mamidala**. (2018), In vitro antibacterial Activity of Phytosterol Isolated From *Aerva Lanata* Roots. *Int J Recent Sci Res*. 9(2), pp. 24490-24494. DOI: <http://dx.doi.org/10.24327/ijrsr.2018.0902.1671>
22. Swapna Gurrapu, Chowgoni Ramya ,Jatavath Shirisha Naik, Pasula Raj Kumar, Dathu Mamilla and **Estari Mamidala** (2018). An Ethnobotanical Survey Of Medicinal Plants Used By Traditional Healers Of Jayashanker Bhupalpally District, Telangana, India". *International Journal of Pharma Research and Health Sciences*. 6 (1): 2245-49. DOI:10.21276/ijprhs.2018.01.27
23. Swapna Gurrapu, Estari Mamidala (2018). In vitro Antibacterial Activity of Acalyphin Compound Isolated from Leaves of *Acalypha indica* Against Human Pathogenic Bacteria. *The Saudi Journal of Life Sciences*. Vol-3, Iss-1 (Jan, 2018): 1-4. DOI:10.21276/haya.2018.3.1.1
24. Swapna Gurrapu and Estari Mamidala. Prevalence of Overweight and Obesity among Students of a University Hostels. *The Ame J Sci & Med Res*. 2018;4(1):12-17. DOI: 10.17812/ajsmr4103
25. Swapna Gurrapu and Estari Mamidala. In Vitro HIV-1 Reverse Transcriptase Inhibition By Alkaloids Isolated From Leaves Of *Eclipta Alba*.. *International Research Journal of Pharmacy*. 2018, 9 (1). 66-70. DOI: 10.7897/2230-8407.09110
26. Tania Luthra, Rahul Agarwal, Mamidala Estari, Uma Adepally, Subhabrata Sen. A novel library of -arylketones as potential inhibitors of α -glucosidase: Their design, synthesis, in vitro and in vivo studies. *Nature-Scientific Reports*, 2017, 7(1), 1-13. DOI: 10.1038/s41598-017-13798-y.
27. Ranjith kumar Thatipamula , Sirassu Narsimha , Kumaraswamy Battula ,V. Rajendra Chary , Estari Mamidala, Nagavelli Vasudeva Reddy. Synthesis, anticancer and antibacterial evaluation of novel (isopropylidene) uridine [1,2,3] triazole hybrids. *Journal of Saudi Chemical Society*. 21 (7), 2017, 795-802. DOI:dx.doi.org/10.1016/j.jscs.2015.12.001.
28. Swapna Gurrapu and Estari Mamidala. In vitro Antibacterial Activity of Physagulin Isolated from *Physalis angulata* Fruits against Pathogenic Clinically Important Bacteria. *International journal of current research*. 2017 .9, (08), 55482-55486.
29. Swapna Gurrapu and Estari Mamidala. In vitro HIV-Reverse Transcriptase Inhibition of Andrographolide Isolated from *Andrographis Paniculata*. *European Journal of Biomedical and Pharmaceutical Sciences*. 2017. Volume 4, Issue 12. 516-522.

30. Gurrapu S, Mamidala E. In vitro antibacterial activity of alkaloids isolated from leaves of *Eclipta Alba* against human pathogenic bacteria. *Pharmacog J.* 2017; 9(4):573-577. Doi: 10.5530/pj.2017.4.91.
31. Estari Mamidala, Prasad Paindla and Swapna Gurrapu. HIV-1 reverse transcriptase inhibition by phenolic compounds isolated from *Acalypha indica* (L.) Plant leaves extract. *International journal on applied bioengineering* 2017: 11[2]: 17-21
32. Swapna Gurrapu, **Estari Mamidala**. In vitro Antibacterial Activity of Physagulin Isolated From *Physalis angulata* Fruits Against Pathogenic Clinically Important Bacteria. *International Journal of Current Research.* 2017. 9(8); 55482-55486.
33. Gurrapu S, **Mamidala E**. In vitro antibacterial activity of alkaloids isolated from leaves of *Eclipta alba* against human pathogenic bacteria. *Pharmacog J.* 2017;9(4):573-7. Doi : 10.5530/pj.2017.4.91.
34. Gujjeti RP, Mamidala E. Anti-HIV Activity of Phytosterol Isolated from *Aerva lanata* Roots. *Pharmacogn J.* 2017;9(1):112-116.

Dr. G. RAJENDER

1. P.Koteswar Rao and **G.Rajender** :Screening of Riboflavin Binding Protein (RFBP) from Avian Eggs to Screen their Anti-cancer activity,Indo Americal journal of Pharmaceutical Research.Vol, 7 (1) 2017.7323-7328.
2. K.Ganesh and **G.Rajender**: Study of Heavy Metals Analysis in Municipal Sewage water of Warangal (WMC), *International journal of Pharmacy and Biological Sciences.* Vol, 7 (4): 185-189, 2017.
3. D.Anitha and **G.Rajender** : Bioaccumulation of Heavy metals in fresh water fishes of River at Sarapaka Village in Bhadrarikottagudem District of Telangan State, *International journal of Pharmacy and Biological Sciences*,vol. 8 (1): 33-38.2018.
4. G. Srinivas kumar and **G.Rajender** : Ichthyofaunal diversity of kinnerasani Reservoir in Bhadradi Kothagudem District of Telangana, India. *Uttar Pradesh Jr of Zool* ,Vol 42(22): 138-149, 2021.
5. Vijay Kumar, Sandeep Nadikatla and **G. Rajender**: Optimization of Protein and Energy Requirement for Broilers Reared Under Open Sided Housing System in Cold Weather Condition . *Uttar Pradesh Jr of Zool* ,Vol . 42(24): 972-978, 2021.
6. G. Srinivas Kumar and **G. Rajender**: Analysis of physic-Chemical Parameters of Kinnerasani Reservoir Water in Bhadradi Kothagudem District of Telangana, India. *Uttar Pradesh Jr of Zool* ,Vol .42(3): 79-87, 2021

