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EDUCATION

B.Sc.	Kakatiya University, Warangal, India; Zoology, Botany and Chemistry; 1994-1997
M.Sc.	Kakatiya University, Warangal, India; Zoology; 1998-2000
Ph.D.	Kakatiya University, Warangal, India; Zoology; 2002-2005
PDF	University of West Georgia, Carrollton, GA 30118-6300 and University of Emory, GA

PROFESSIONAL

Academic/Administrative Appointments:

2021-	Professor, Department of Zoology, KU, Warangal
2019 - 2021	Associate Professor, Department of Zoology, KU, Warangal
2007 – 2019	Assistant Professor, Department of Zoology, Kakatiya University, Warangal, India
2014 – 2015	UGC-Raman Post-Doctoral Research Fellow @ Department of Biology, University of West Georgia, Carrollton, GA.
2005 - 2007	Lecturer, Department of Zoology, New Science PG College, Warangal, India

Administrative Experience:

2008 – 2011	Warden for BC Students Hostel, University Arts & Science College, Subedari, Kakatiya University, Warangal, India
2011-2016	Joint Director, KU Hostels, KU
2016-2022	Director, Directorate of Hostels, Kakatiya University

Honors and Awards:

2024	Royal Society of Biology – Member (MRSB)
2018	Fellow of Bose Science Society-FBSS, (Fellowship No; F430/BSS/2018, 15th March, 3. 2018), DST, Govt. of India, New Delhi
2018	Fellow of National Science Foundation (FNSF), Bethesda, Maryland, USA, 7 May, 2018
2018	Best Researcher Award, DK International Research Foundation, Chennai, 27th May, 2018

- 2017 Fellow of Zoological Society of Netherlands, Netherlands
- 2017 Young Investigator Award, Madrid, Barcelona, Spain, November 8, 2017
- 2016 Fellow of US-Kenada Research Academy, USA.
- 2015 American Radiolabelled Young Scientist Award from ASIOA, at Boston, USA
- 2015 Award of Fellow of International Association of Science Impact (F.I.A.S.I.), India
- 2015 Bharat Excellence Award from Friendship forum, New Delhi, India - 2015
- 2012 Bharat Jyothi Award from IIFS, New Delhi, India
- 2011 Bharat Shiksha Ratna Award from Global Society for Health and Educational Growth, New Delhi, India
- 2009 Rapid Grant Young Investigator Award from DBT, New Delhi, India

Membership in Scientific and Professional Societies:

- 2024-Present Royal Society of Biology – Member (MRSB)
- 2023-Present Member, Royal Society of Biology (BRSB), No. P0154896. London
- 2014-present Member, Association of Scientists of Indian Origin in America (ASIOA), USA
- 2013-present Life-Member, Indian Science Congress Association, Calcutta, India
- 2012-present Life-Member, Indian Society for the Study of Reproduction and Fertility (ISSRF), Mumbai, India
- 2009-present Life-Member, Indian Society of Toxicology, Aligarh Muslim University, Aligarh, India

Editorial Board:

- 2017-present International Journal of Research Publications (IJRP), UK
- 2015-present Member, Editorial Board, Journal of Global Trends in Pharmaceutical Sciences (ISSN: 2230-7346)
- 2015-present Reviewer, Journal of US-China Medical Science (ISSN: 1548-6648 USA)
- 2015-present Member, Editorial Board, International Journal of Biotech Trends & Technology (ISSN 2249-0183, India)
- 2014-present Member, Editorial Board, Indian Journal of Biology,
- 2015-present Editor, The American Journal of Science and Medical Research (ISSN: 2377-6196 USA)
- 2015-present Member, Editorial Board, Journal of Bio innovation, India (ISSN: 2277-8330, India)
- 2014-present Member, Editorial Board, International Journal of Science and Engineering Research (ISSN: 2229-5518, France)
- 2013-present Editor, Biolife -an International Journal of Biology & Life Sciences (ISSN: 2320-4257, India)

Professional Activities:

- 2012 Member, Technical Program Committee, International Conference on Management, Manufacturing and material Engineering (ICMMM 2012), Beijing, China, 21-23, 2012.
- 2012 Member, Scientific Committee, 2nd International Conference on Computer Science and Logistics Engineering (ICCSLE2012), October 19-21, 2012 Zhengzhou China.
- 2011 Member, Scientific Committee, ICCSLE 2011 - 2011 International Conference on Computer Science and Logistics Engineering (ICCSLE2011), Zhengzhou / China 2011-November 13
- 2011 Member, International Conference on Industrial engineering and Management IEM 2011, Zhengzhou, china, August 12-14, 2011

TEACHING

1. Zoology for Undergraduates (2000-2002), Govt. Degree College, Adilabad, India.
2. Genes & Differentiation, M.Sc Zoology Paper (2005-2007), New Science PG College, Warangal, India
3. Zoology for PG at Kakatiya University (2007-still today)

RESEARCH

Research Project Grants (No.10)

- 2025 RUSA. *Validating ethno-medicines from tribal areas of Telangana with a view to isolation and developing new drug molecule for targeting HIV*. Rs.24,00,000
- 2022 ICMR, New Delhi "Data mining prediction and forecasting models for Novel Coronavirus (COVID-19) using Machine Learning" (2022), Rs.20,18,948.
- 2021 ICMR, New Delhi "*In silico* identification of novel inhibitors of type 2 diabetes and its *in vitro*, *in vivo* validation in a motive to develop anti-diabetic drug". (2021-23) Rs.14,61,600
- 2019 ICMR-Extra mural Research Grant. "*In vitro* and *In silico* Approaches to study the anti-HIV activity of *Calotropis procera* root Extracts" (2019-22), Rs. 39,41,810. (No.ISRM/12(01)/2019, ID No.2018-1272; 17-07-2019 to 16-07-2022)
- 2015 UGC Raman Post-Doctoral Fellowship award. Funding Agency: UGC, New Delhi Project (Sept 2014-Sept 2015) Rs. 22,86,836/-.
- 2014 Principal Investigator, "In vitro HIV type 1 reverse transcriptase inhibitory activities of some active compounds from *Phyllanthus emblica* fruits" DBT, New Delhi, India, (2014-17). Rs. 47,45,000. (DBT/PR8289/MED/29/717/2013; 01.04.2014 to 31.03.2017)
- 2013 Principal Investigator, "Isolation, partial purification and characterization of Human immunodeficiency virus (HIV-1) protease inhibitors from fresh water mussels (*Lamellidens marginalis*)", DST, New Delhi, India. (2013-16). Rs. 21,20,000. (No.SB/FT/LS-232/2012; 01-06-2013 to 31-05-2016)
- 2012 Principal Investigator, "*In vitro* study on anti-HIV activity of some medicinal plants used by tribal people of Adilabad district, Andhra Pradesh", APCOST, Hyderabad. (2012-13). Rs. 2,20,000. (No.04/APCOST/R&D Projects/2011-12; 01-04-2012 to 31-03-2013)
- 2010 Principal Investigator, "Studies on Human Immunodeficiency Virus-1 (HIV-1) protease inhibition by the extracts of freshwater mussel", RGYI award, DBT, New Delhi, India. (2010-12). Rs. 9,72,000. (No.102/IFD/SAN/PR-0392/2010-2011; 01-06-2010 to 31-05-2012)
- 2010 Principal Investigator, Studies on anti-HIV activity of the extracts of freshwater mussel (*Lamellidens marginalis*) extracts", UGC, New Delhi, India. (2010-12). Rs. 5,03,200. (F.No.37-238/2009 (SR); 01-02-2010 to 31-01-2012)

RESEARCH PUBLICATIONS (No. 130)

Publications in Refereed Journals:

1. Mamidala, E. (2025). Comparative Health Impacts of Animal and Plant Proteins: An Exploration of Cardiovascular Risks and Benefits. In *The American Journal of Science and Medical Research*, 11(1), 1–5.. <https://doi.org/10.5281/zenodo.15115452>
2. Sanober, M., & Mamidala, E. (2025). Identification of novel HIV-1 reverse transcriptase inhibitors through structure-based pharmacophore modeling and molecular docking. In *Two-Day National Seminar on Recent Trends in Animal Biotechnology (RTAB-2024)*, Department of Zoology, Kakatiya University, Warangal, 105-116. <https://doi.org/10.5281/zenodo.15513876>.
3. Pasula, J., & Mamidala, E. (2025). Flavonoids as Multifunctional Agents: Targeting Multiple Enzymes in Cancer Therapy. In *Proceedings of Two-Day National Seminar on Innovative Techniques In Animal Biotechnology & Immunology For Disease Prevention & Management*, Department of Zoology, KU. 213–227. <https://doi.org/10.5281/zenodo.15869560>.
4. Sanober, M. D., & Mamidala, E. (2025). Targeting RdRP of Nora virus: A review of phytochemical derivatives and their potential through virtual screening. In *Proceedings of the Two-Day National Seminar on Innovative Techniques in Animal Biotechnology and Immunology for Disease Prevention & Management (ABIDPM-2025)*, 159–168. Department of Zoology, Kakatiya University. <https://zenodo.org/records/15564831>]
5. Sanober, M., & Mamidala, E. (2025). Identification of novel HIV-1 reverse transcriptase inhibitors through structure-based pharmacophore modeling and molecular docking. in *Two-Day National Seminar on Recent Trends in Animal Biotechnology (RTAB-2024)* (pp-105-116) Department of Zoology, Kakatiya University, Warangal. <https://doi.org/10.5281/zenodo.15513876>.
6. Sanober, M. D., & Mamidala, E. (2025). Targeting RdRP of Nora virus: A review of phytochemical derivatives and their potential through virtual screening. In *Proceedings of the Two-Day National Seminar on Innovative Techniques in Animal Biotechnology and Immunology for Disease Prevention & Management (ABIDPM-2025)* (pp. 159–168). Department of Zoology, Kakatiya University. <https://zenodo.org/records/15564831>
7. Pasula, J., & Mamidala, E. (2025). In Silico Evaluation of Phytochemical Interactions with EGFR: Potential Alternatives in Cancer Therapy. In *Proceedings of Two-Day National Seminar on Recent Trends In Animal Biotechnology*, KU. 162–171. <https://doi.org/10.5281/zenodo.15869329>.
8. Kumar, A. S., & Mamidala, E. (2025). Advancements in CCR5 inhibitors: A comprehensive review of pharmacophore models and virtual screening approaches. In *Proceedings of the Two-Day National Seminar on Innovative Techniques in Animal Biotechnology and Immunology for Disease Prevention & Management (ABIDPM-2025)* (pp. 159–168). Department of Zoology, Kakatiya University. ISBN: 978-81-982510-4-6. <https://doi.org/10.5281/zenodo.15564831>

9. Kumar, A. S., & Mamidala, E. (2025). In silico screening of CCR5 inhibitors using pharmacophore modeling and molecular docking techniques. In Proceedings of the Two-Day National Seminar on Recent Trends in Animal Biotechnology (RTAB-2024) (pp. 172–183). Zenodo. <https://doi.org/10.5281/zenodo.15513876>
10. Kumar, A. S., & Mamidala, E. (2025). Pharmacophore-guided virtual screening and docking approach for identification of potential CCR5 inhibitors against HIV-1. *Biolife*, 13(2), 9-17. <https://doi.org/10.5281/zenodo.15530115>
11. Sanober, M. D., & Mamidala, E. (2025). Molecular docking studies of flavone derivatives as inhibitors of RdRP Nora virus: Computational insights and binding affinity analysis. *Biolife*, 13(2), 1-8. <https://doi.org/10.5281/zenodo.15529856>
12. Pasula Janakiramulu, Estari Mamidala (2025). Evaluating the Anti-Cancer Potential of Natural Flavonoids COX-2 Inhibition through Molecular Docking. *The American Journal of Science and Medical Research*, 11(2), 5–10. <https://doi.org/10.5281/zenodo.15543983>
13. Mamidala Estari, Poornima Munipally (2025). Inhibitory potential of α -Amyrin from *Calotropis procera* against HIV-1 reverse transcriptase: insights from *in silico* and *in vitro* assays. Research Square Preprint. <https://doi.org/10.21203/rs.3.rs-6388308/v1>
14. Pasula Janakiramulu, Estari Mamidala (2025). In Silico Evaluation of Phytochemical Interactions with EGFR: Potential Alternatives in Cancer Therapy. In: Proceedings of Two-Day National Seminar on RTAB-2024. 162-171. <https://doi.org/10.5281/zenodo.15513876>
15. S Jyothsna, T Lavanya, D Sammaiah, Mamidala Estari, Joel K Joseph, S Suneetha, Kopula Naresh, Kuppusamy Thangaraju (2025). Molecular Docking and Trace Elements Analysis in *Senna occidentalis*, an Anti-asthmatic Medicinal Herb. In: Joseph D., P., V., J., Thangaraju, K. (eds) Proceedings of the International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies. IEMDST 2024. Springer, Singapore. https://doi.org/10.1007/978-981-96-5863-3_27
16. Srinivas Paramkusham, Estari Mamidala, J. Madhukar, (2025) Structural and Functional Insights into Riboflavin-Binding Proteins in Whooping crane (*Grus americana*) and Other Avian Species: An In silico Approach. *Journal of Neonatal Surgery*, 14 (19s), 563-569.
17. Janakiramulu, P., & Mamidala, E. (2025). Molecular Docking and dynamic simulation analysis of flavonoid derivatives as COX-2 inhibitors. In *Silico Pharmacology*, 13(2), 1-13.
18. Mamidala, E. (2025). Comparative Health Impacts of Animal and Plant Proteins: An Exploration of Cardiovascular Risks and Benefits. In *The American Journal of Science and Medical Research*, 11 (1);1–5). <https://doi.org/10.5281/zenodo.15115452>
19. Kumar, A. S., & Mamidala, E. (2025). Identification of HIV-1 Entry Inhibitors through Ligand-Based Pharmacophore and Molecular Docking Analysis. *Annals of Agri-Bio Research*, 30(1), 10-16.

20. MD Sanober, **E Mamidala**. Pharmacophore Generation and Structure-Based Strategies For NNRTI Development Against HIV-1 RT". *Advances in Applied Biological Research*, vol. 1, no. 1, Aug. 2024, pp. 7-13, <https://doi.org/10.48165/aabr.2024.1.02>.
21. Swapna K, Srujana M, Mamidala E. Identification of steroidal cardenolides from *Calotropis procera* as novel HIV-1 PR inhibitors: A molecular docking & molecular dynamics simulation study. *Indian J Med Res.* 2024 Jul;160(1):78-86. <https://doi.org/10.25259/IJMR.2115.23>. PMID: 39382500; PMCID: PMC11463882. Impact Factor: 2.7.
22. F. O. Atanu, E. Mamidala, C. O. Nwonuma and O. O. Alejlowo, "Molecular interactions between β -lactoglobulin protein and phytocannabinoids: a molecular docking and dynamics simulation study," 2024 International Conference on Science, Engineering and Business for Driving Sustainable Development Goals (SEB4SDG), Omu-Aran, Nigeria, 2024, pp. 1-4.
Doi: <https://doi.org/10.1109/SEB4SDG60871.2024.10630272>.
23. Burgula Kavitha, Estari Mamidala. Exploring The Potential Of 4-(2-Hydroxypropan-2-Yl)Cyclohex-1-En-1-Ol From *Calotropis Procera* As A New Antibacterial Agent. (2024). *CAHIERS MAGELLANES-NS*, 6(2), 1489-1496.
<https://doi.org/10.5281/zenodo.12803378>
24. Kandagatla Swapna, M. Srujana & Estari Mamidala. In Silico Assessment Of The Antiviral Potential Of Novel *Withania Somnifera* Compounds Against HIV-1 Reverse Transcriptase. *CAHIERS MAGELLANES-NS*, vol. 6, no. 2, July 2024, pp. 2242-53.
25. Kandagatla Swapna, M. Srujana, Estari Mamidala. In Silico Toxicity Evaluation Of Novel Compounds Isolated From *Withania Somnifera*. (2024). *CAHIERS MAGELLANES-NS*, 6(2), 2076-2083.
26. Burgula Kavitha, Estari Mamidala (2024). Ethnobotanical Knowledge Of Medicinal Plants In Khammam District, Telangana, India Insights From Traditional Healers. *Yugato*, 76(1), 1504-1513. <https://doi.org/10.5281/zenodo.12844364>.
27. Swapna Kandagatla, Srujana.M, Estari Mamidala (2024). Isolation And Identification Of A Novel Compound From *Withania somnifera*: In Vitro Studies On HIV-1 Reverse Transcriptase Inhibition. *Yugato*, 76(1), 1457-1465.
<https://doi.org/10.5281/zenodo.12845669>
28. Swapna Kandagatla, Srujana.M, Estari Mamidala (2024). Identifying Promising CCR5-Directed Leads From *Withaniasomnifera* For HIV-1 Management Via Computational Molecular Docking Techniques . *Yugato*, 76(1), 1404-1413.
29. Boju, S. L., Kotha, P., Nasreen, A., Gurrapu, S., Mamidala, E., Ram, R., ... & Vishnubhotla, S. K. (2023). Nephroprotective Effects of Mycophenolate Mofetil and

- Glibenclamide on Streptozotocin-induced Diabetic Renal Injury in Rats: An Experimental Study. Saudi Journal of Kidney Diseases and Transplantation, 34(6), 613-624. DOI: <https://doi.org/10.4103/sjkdt.sjkdt.611.20>.
30. Dathu Mamilla, P. R. and E. M. (2023). In silico evaluation of compounds from *Hypericum perforatum* for anti-HIV activity. The American Journal of Science and Medical Research, 9(1), 6-10. <https://doi.org/10.5281/zenodo.7812506>.
 31. Al-Masri AA, Ameen F, Davella R, Mamidala E. (2023). Antidiabetic effect of flavonoid from *Rumex vesicarius* on alloxan induced diabetes in Male Albino Wistar rats and its validation through in silico molecular docking and dynamic simulation studies. Biotechnol Genet Eng Rev. 16:1-16. Impact Factor:3.2. DOI: <https://dx.doi.org/10.1080/02648725.2023.2213042>
 32. Buchipal Reddy and Estari Mamidala (2023). Suppression of Fertility in Male Albino Rats Following the Administration of *Piper longum* Crude Extracts. Biolife, 11(2), 34-39. DOI: <https://dx.doi.org/10.5281/zenodo.7791768>
 33. Sindhu Yalavarthi, & Estari Mamidala. (2023). Molecular Docking Simulation Study to Identify Potential Phytocompound inhibitors for HER2 as Anti-breast Cancer Agents. Biogecko, 12(03), 205-219. <https://doi.org/10.5281/zenodo.7902970>
 34. Lingaiah M, Estari Mamidala, & Nagaraja Rao P. (2023). Potential Antidiabetic Activity and Lipid Profile Effects of Plant Extracts in diabetic induced Wistar rats. Biogecko ISSN NO: 2230-5807, 12(3), 5128-5136. <https://doi.org/10.5281/zenodo.8032985>
 35. Pujala Shivakrishna, & Estari Mamidala. (2023). Exploring the multi-targeted therapeutic potential of Benzoquinoline in diabetes: A molecular docking study with key enzymes. Eur. Chem. Bull, 12(06). 4753-4764. <https://doi.org/10.5281/zenodo.8037647>.
 36. Angadi, S. K., & Mamidala, E. (2023). An ethnobotanical survey of medicinal plants used by traditional healers of Maripeda, Mahabubabad district, Telangana, India. American Journal of Science and Medical Research, 9, 1-5. <https://dx.doi.org/10.5281/zenodo.7807326>
 37. Fuad Ameen, Raha Orfali, **Estari Mamidala** & Rakesh Davella (2022). In silico toxicity prediction, molecular docking studies and in vitro validation of antibacterial potential of alkaloids from *Eclipta alba* in designing of novel antimicrobial therapeutic strategies, Biotechnology and Genetic Engineering Reviews, <https://doi.org/10.1080/02648725.2022.2162264>.
 38. **Estari Mamidala**, Rakesh Davella, Swapna Gurrapu, & Pujala Shivakrishna. (2022). In Silico Identification of Clinically Approved Medicines Against the main Protease of

Sars-Cov-2 – A Causative Agent of Covid-19: Life Sciences-Zoology. International Journal of Life Science and Pharma Research, 11(1), 107–122. <https://doi.org/10.22376/ijpbs/lpr.2021.11.1.L107-122>.

39. Swapna Kandagatla, Srujana M, **Estari Mamidala** (2022). Identification of terpenoids from *Withania somnifera* as a HIV-1 entry inhibitors that prevent gp120 binding to CD4 using In Silico Approach. High Technology Letters; 28(12), 973-981. <https://doi.org/10.5281/zenodo.7479434>
40. Pujala Shivakrishna, & **Estari Mamidala**. (2022). Molecular Docking Analysis of Flavonoid Compounds with *C. igneus* for the Identification of Potential Effective α -amylase Inhibitors. High Technology Letters, 28(12), 768–778. <https://doi.org/10.5281/zenodo.7471102>
41. Prasad Paindla, & **Estari Mamidala**. (2022). Inhibition of Human Immunodeficiency Virus (HIV-1) Reverse Transcriptase by *Acalypha indica* (L.) Plant Leaves Extract. The American Journal of Science and Medical Research, 8(3), 1–4. <https://doi.org/10.5281/zenodo.7213389>
42. Anjaly Babu, D. Rakesh, P. Supraja, Siju Mishra, K. Uday Kumar, R. Rakesh Kumar, D. Haranath, **Estari Mamidala**, Raju Nagapuri, Plant-based triboelectric nanogenerator for biomechanical energy harvesting, Results in Surfaces and Interfaces, Volume 8, 2022, 100075, ISSN 2666-8459, <https://doi.org/10.1016/j.rsurfi.2022.100075>.
43. Swapna, K., Srujana, M., & **Estari, M.** (2022). Inhibitory effect against reverse transcriptase of HIV-1 of the extract of selected medicinal plants. International Journal of Health Sciences, 6(S5). 10623–10633. (20.07.2022) <https://doi.org/10.53730/ijhs.v6nS5.10841>
44. Davella, R., Reddy, V. R., Pujala, S., Burgula, K., & **Mamidala, E.** (2022). In silico identification of potential inhibitors from *Rumex vesicarius* against DPP4 of diabetes mellitus. International Journal of Health Sciences, 6(S1), 1002-1017. (18.03.2022). <https://doi.org/10.53730/ijhs.v6nS1.4840>
45. Rakesh Davella, Swapna Gurrapu, **Estari Mamidala**, Phenolic compounds as promising drug candidates against COVID-19 - an integrated molecular docking and dynamics simulation study, Materials Today: Proceedings 51 (2022) 522–527, <https://doi.org/10.1016/j.matpr.2021.05.595>
46. **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.* 29(2):840-847. doi: <https://doi.org/10.1016/j.sjbs.2021.10.023>.

47. Rakesh Davella, & **Estari Mamidala**. (2021). Molecular Docking and Dynamic Simulation Studies of compounds from *Rumex vesicarius* against Maltase-Glucoamylase to treat type 2 Diabetes. *Annals of R.S.C.B*, 25(6), 21067–21077.
<https://doi.org/10.5281/zenodo.7069397>
<https://www.annalsofrscb.ro/index.php/journal/article/view/10565>
48. 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>
49. **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>
50. 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(10): 1454-1460.
DOI: <http://dx.doi.org/10.1016/j.jiph.2021.07.012>

2020

51. 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).
52. 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>
53. 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>
54. **Mamidala, Estari**; Davella, Rakesh; Gurrupu, 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.

<https://dx.doi.org/10.18311/ajprhc/2020/25080>.

55. 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
56. **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>; <https://doi.org/10.48550/arXiv.2004.12055>
57. 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.

2019

58. 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. http://ajsmrjournal.com/issueslist.php?cat_id=22; <https://dx.doi.org/10.17812/ajsmr541>
59. 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

2018

60. Davella Rakesh, and **Estari Mamidala**. "In silico Molecular Docking Studies of compounds from *Rumex vesicarius* against GFAT1." *Biolife* 6.3 (2018): 7-13.
61. 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.
62. 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>
63. 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

64. 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
65. 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
66. 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

2017

67. 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.
68. 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.
69. 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.
70. 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.
71. 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.
72. **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
73. 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.
74. 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. 10.5530/pj.2017.4.91. Doi : 10.5530/pj.2017.4.91.

75. Gujjeti RP, Mamidala E. Anti-HIV Activity of Phytosterol Isolated from *Aerva lanata* Roots. *Pharmacogn J*. 2017;9(1):112-116. DOI: 10.5530/pj.2017.1.19

2016

76. Swapna Gurrupu and **Estari Mamidala**. Medicinal Plants Used By Traditional Medicine Practitioners in the Management of HIV/AIDS-Related Diseases in Tribal Areas of Adilabad District, Telangana Region. *The Ame J Sci & Med Res*. 2016;2(1):239-245. doi:10.17812/ajsmr2101.
77. Lingaiah, **Estari Mamidala** and P. Nagaraja Rao (2016). Modulatory effect of *Cassia auriculata* plant extraction on glucose metabolism in alloxan induced diabetic Wistar rats. *The Ame J Sci & Med Res*, 1(2); 212-220. doi:10.17812/ajsmr1213.

2015

78. Porika Raju and **Estari Mamidala** (2015). Anti-diabetic activity of compound isolated from *Physalis angulata* fruit extracts in alloxan induced diabetic rats. *The Ame J Sci & Med Res*, 2015,1(1); Pages 1 -6. doi:10.17812/ajsmr2015.11.1.
79. Lingaiah, **Estari Mamidala** and P. Nagaraja Rao (2015). An ethnobotanical survey of medicinal plants extracts used for the treatment of diabetes mellitus in the Utnoor Mandal of Adilabad dist, Telangana, India. *Biolife*. 3(4); 937-945. DOI: 10.17812/blj.2015.3429
80. Sateesh Pujari, & **Estari Mamidala**. (2015). Anti-diabetic activity of Physagulin-F isolated from *Physalis angulata* fruits. *The American Journal of Science and Medical Research*, 1(2), 53-60. <https://doi.org/10.5281/zenodo.7352308>.

2014

81. Rajendra Prasad Gujjeti and **Estari Mamidala**. Anti-HIV Activity and Cytotoxic Effects of *Aerva lanata* Root Extracts. *American Journal of Phytomedicine and Clinical Therapeutics*. 2014. 2(7) 894-900.
82. Rajendra Prasad Gujjeti, Sainath Namthabad, **Estari Mamidala**. HIV-1 reverse transcriptase inhibitory activity of *Aerva lanata* plant extracts. *BMC Infectious Diseases*. 2014,14. P12. doi:10.1186/1471-2334-14-S3-P12.
83. Sateesh Poojari, Raju Porika and **Estari Mamidala**. Phytochemical Analysis and in Vitro Antidiabetic Activities of *Physalis angulata* Fruit Extracts. *National Journal of Integrated Research in Medicine (NJIRM)* 2014; Vol. 5(2). 34-38.
84. Estari Mamidala, Rajendra Prasad Gujjeti and Sainath Namthabad. *Calotropis gigantea* flowers extracts with HIV-1 reverse transcriptase (RT) inhibitory activity. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014, 3(9), 1016-1022. (Impact factor=2.786).
85. Rajendra Prasad Gujjeti and Estari Mamidala. In vitro HIV-1 RT inhibitory activity of *Madhuca indica* inner bark extracts. *Biolife*, 2014, 2(3), 759-763. (Impact factor=4.75)

86. Raju Porika, Sateesh Poojari, Venkanna Lunavath and **Estari Mamidala**. Preliminary Phytochemical Investigation and TLC Analysis of *P. Angulata* Fruit Extract. *Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*. Volume 9, Issue 2 Ver. II, 11-14.
87. Lingaiah, Devender Guniganti and **Estari Mamidala** (2014). Invitro anti-diabetic activity of selected medicinal plant extracts used by tribals of Adilabad district, Telangana state, India. *Biolife*. 2(4); 1398-1407.
88. Prasad Paindla, & **Estari Mamidala**. Phytochemical and Chromatographic Studies in the Leaves Extract of *Acalypha Indica*. *Online International Interdisciplinary Research Journal*, Volume-IV, Issue-I, Jan-Feb 2014. 175-182.

2013

89. Rajendra Chary and **Estari Mamidala**. Phytochemical and Chromatographic studies in the stem bark extract of *Ficus recemosa* (L). *The Ecoscan*, 2013. Special Issue. Vol.IV, 27-31.
90. Rajendra Chary Vijayagiri and **Estari Mamidala**. Preliminary phytochemical and in vitro anti-diabetic activity of *Ficus racemosa* (L.) stems bark extract. *Online International Interdisciplinary Research Journal*, Voll-III, Nov 2013. 134-141.
91. Rajendra Prasad Gujjeti and **Estari Mamidala**. Phytochemical Analysis and TLC Profile of *Madhuca indica* Inner Bark Plant Extract. *International Journal of Scientific and Engineering Research*. Vol 4 (10), 2013. 1507-1510.
92. Rajendra Prasad Gujjeti and **Estari Mamidala**. Phytochemical Screening and Thin Layer Chromatographic Studies of *Aerva lanata* root extract. *International Journal of Innovative Research in Science, Engineering and Technology*. 2(10), 2013. 5725-5730.
93. Venkanna Lunavath and **Estari Mamidala**. Preliminary Phytochemical Screening And Antibacterial Studies Of The Leaves Of *Eclipta Alba* (L). *Int J Pharm Bio Sci* 2013 July; 4(3): (B) 380 – 384.
94. Prasad Paindla, Rajendra Chary Vijayagiri and **Estari Mamidala**. Ethnobotanical survey in different mandals of Adilabad district, Andhra Pradesh, India. *International Journal of Sciences*, 2013, 2(1), 77-83.
95. Srinivas Gidhamaari, Boominathan and **Estari Mamidala**. Studies of efficiency of immobilized bacteria in tannery effluent treatment. *Journal of Bioinnovation*, 2(2), 33-42. 2012.
96. Estari Mamidala and Rajendra Prasad Gujjeti. Phytochemical and antimicrobial activity of *Acmella paniculata* plant extracts. *Journal of Bioinnovation*, 2013. 2(1), 17-22.
97. Sripriya D, Venkanna L, Estari Mamidala. Analgesic and Anti-inflammatory effects of *Ocimum americanum* (Linn) in Laboratory animals. *International Journal of Scientific & engineering Research*, 4(6), June-2013, 2724-2727.

98. Soma Manjula and **Estari Mamidala**. An Ethnobotanical survey of medicinal plants used by traditional healers of Thadvai, Warangal district, Andhra Pradesh, India. *International Journal Medical Research & Health Sciences (IJMRHS)*. 2013. 2(1),40-46.
99. Repudi Lalitha, **Estari Mamidala** and Rajeshwar. *Invitro* antimicrobial and antioxidant activity of *Acmella paniculata* plant extracts. *International Journal of Applied biology and Pharmaceutical Technology*, 4(1), 132-135.
100. Venkanna Lunavath, Raju Porika and **Estari Mamidala**. Phytochemical Analysis and Antimicrobial Activity of *Casia Occidentalis (L)*. *International Journal of Applied Biology and Pharmaceutical Technology*, 2013. 4(1), 4(1), 84-87.

2012

101. **Estari Mamidala** and Venkanna Lunavath. Studies on human immunodeficiency virus-1 (HIV-1) protease inhibition by the extracts of fresh water mussel. *International Journal of Medical and Pharma Research*. 2012. 2(1), 38-42.
102. **Estari M** and Sripriya D. Antibacterial and phytochemical properties of *schefflera stellata* (g.) Leaf extracts against various bacterial species. *Bulletin of Pure & Applied Sciences*, 31A(2), 2012, 65-71.
103. Venkanna Lunavath, Raju Porika, Sri Priya and **Estari Mamidala**. Preliminary phytochemical analysis and anti-bacterial activity of *Tinospora cordifolia* leaf extracts. *International Journal of Health and Pharmaceutical Sciences (IJHPS)*, 2012, 1(4), 17-21.
104. Rajendra Chary Vijayagiri and **Estari Mamidala**. Ethnobotanical Investigations Among Traditional Healers In Warangal District Of Andhra Pradesh, India. *Pharmacognasy Journal*. 2012. 4(34), 13-17.
105. E. Sucharitha and **M. Estari**. Evaluation of antidiabetic activity of medicinal plant extracts used by tribal communities in rural areas of Warangal district, Andhra Pradesh. *Biology and Medicine*, 5 (20-25).
106. **M Estari**, L Venkanna, D Sripriya, R Lalitha. Human Immunodeficiency Virus (HIV-1) reverse transcriptase inhibitory activity of *Phyllanthus emblica* plant extract. *Biology and Medicine*, 2012. 4 (4): 178-182.
107. **Estari Mamidala** and Venkanna Lunavath Human immunodeficiency virus (HIV-1) reverse Transcriptase inhibitory activity of selected plant Extract. *The ecoscan*, 2012. 1:293-297.
108. Rajendra Prasad Gujjeti and **Estari Mafrmidala**. Ethnobotanical survey of medicinal plants used by the tribes of Khammam district, Andhra Pradesh, India. *Journal of Research in Plant Sciences*, 2012. 1(2): 001-006.
109. **Mamidala Estari**, Lunavath Venkanna, Annem Srinivas Reddy. In vitro anti-HIV activity of crude extracts from *Tinospora cordifolia*. *BMC Infectious Diseases*. 2012, 12(1):10. DOI: 10.1186/1471-2334-12-S1-P10.

110. Venkanna Lunavath and **Estari Mamidala**, Inhibition of Human Immunodeficiency Virus (HIV-1) Reverse Transcriptase by *Casia occidentalis* (L) Plant Extract, *International Journal of Scientific and Engineering Research*, 2012. Vol. 3 (7):1-4.
111. Venkanna Lunavath and **Estari Mamidala**, Human Immunodeficiency Virus (HIV-1) Reverse Transcriptase inhibitory activity of *Eclipta alba* (L) leaves extracts, *International Journal of Applied Biology and Pharmaceutical Technology*, 2012. 3(3), 356-359.
112. Venkanna Lunavath and **Estari Mamidala**, In vitro antimicrobial activity of some medicinal plants used by tribes in Warangal dist, (A.P), *Biology and Medicine*, 2012. 4 (2): 85-88.
113. Venkanna Lunavath, Soumya Billa and **Estari Mamidala**, *in vitro* anti hiv-1 (human immunodeficiency virus) activity of *Eclipta alba* plant extract, *The Asian Journal of Animal Science*, 2012. 7(1) 2012.
114. Venkanna Lunavath and **Estari Mamidala**, Studies on anti-HIV activity of *phyllanthus emblica* plant extracts, *The Bioscan*. 2012. 7 (3), 451-454.
115. **Estari Mamidala**. In vitro study for anti-HIV activity in extracts from fresh water mussel (*Lamellidens marginalis*). 2011. *J. Antivir Antiretrovir*. 3:4. (Impact factor=2.62).
116. Venkanna Lunavath and **Estari Mamidala**. (2012). Human Immunodeficiency Virus (HIV-1) Reverse Transcriptase inhibitory activity of *Eclipta alba* (L) leaves extracts. *International Journal of Applied biology and Pharmaceutical technology*. 3 (3), 356-359.

2011

117. **Estari**, L. Venkanna, A. Srinivas Reddy, P. Prasad, V. Rajendra chary, P. Satheesh and G. Rajendra Prasad. 2011. *In Vitro* study for HIV-1 Reverse Transcriptase Inhibitory activity in extracts from *Eclipta alba*. *Bulletin of Pure and Applied Sciences*. Vol.30 A (Zoology) No.2:P.49-53.
118. **M Estari**, J Satyanarayana, B Satheesh Kumar, T Bikshapathi, A Srinivas Reddy, L Venkanna. *In vitro* study of antimicrobial activity in freshwater mussel (*Lamellidens marginalis*) extracts. *Biology and Medicine*, 2011, 191-195.

2010

119. Mohd. Khaza, K. Laxmi Prasad and **M. Estari**. 2010. The Effects of Protease Inhibitors on Metabolic Complications and Lipodystrophy in Human Immunodeficiency Virus-Infected Patients, *American Medical Journal* American Medical Journal 1 (2): 97-102.
DOI: 10.3844/amjsp.2009.97.102

2009

120. K. Laxmi Prasad, K. Satya Parameshwar, A. Srinivas Reddy, T. Bikshapathi, J. Satyanarayana, L. Venkanna and **M. Estari**. 2009. Prevalence of dyslipidemia in urban adult population of Warangal district, Andhra Pradesh, India, 2009. *Journal of Current Sciences*, No.14: 89-96.

121. M. Estari, A S Reddy, T Bikshapathi, J Satyanarayana, L. Venkanna, M Krishna Reddy. The investigation of serum lipids and prevalence of dyslipidemia in urban adult population of Warangal district, Andhra Pradesh, India. *Biology and Medicine*, 2009. Vol 1 (2): 61-65.
122. M. Bapu Rao, T. Bikshapathi, A. Srinivas Reddy, L. Venkanna and **M. Estari**. Limnological studies of Kuntala stream at Adilabad district, Andhra Pradesh, *Bulletin of Pure and Applied Sciences*. 2008. Vol.27A (No.2):109-114.
123. Srinivas Reddy, T. Bikshapathi, l. Venkanna **M. Estari** and M. Krishna Reddy. Incidence of dyslipidemia among rural and urban school children of Warangal district, Andhra Pradesh, *Bulletin of Pure and Applied Sciences*. 2008. Vol.27A (No.2) : 57-65.
124. T. Bikshapathi, A. Srinivas Reddy, M. Estari and M. Krishna Reddy. Prevalence of metabolic syndrome in HIV infected patients receiving HAART drugs, *Journal of current sciences*, 2008. vol. 12 (2): 809-813.
125. Bikshapathi, A. Srinivas Reddy, M. **Estari** and M. Krishna Reddy. Prevalence of Low obesity and high under nutrition in socio economic status school children. *Asian Journal of Biosciences*. 2009, No.4(1); 59-62.
126. Srinivas Reddy, T. Bikshapathi, **M. Estari** and M. Krishna Reddy. Obesity, Lipid profiles and prevalence of dyslipidemia amongst diabetic patients in Warangal. *Asian Journal of Microbiology Biotechnology and Environmental Sciences*. 2009, 11(4); 877-880.

2008

127. **M. Estari**, T. Bikshapathi and M. Krishna Reddy, *Effect of CD4 cell count on hemolytic abnormalities and STD's in patients infected with human immunodeficiency virus (HIV)*. *Journal of Ecotoxicology and Environmental Monitoring*, 2008, 22(2), 177-181.

2007

128. **M. Estari** and M. Krishna Reddy. Effect of CD4 cell count on hemolytic abnormalities in patients infected with HIV, *Journal of Eco-biology*, 2007, 21, 81-86.

2006

129. **M. Estari**, J. Lakan Singh, Bheem Rao and M. Krishna Reddy, HIV seroprevalence in tuberculosis patients of Adilabad district, A.P., India. *Bulletin of Pure and Applied Sciences*, 2006, 25A(2), 149-152.
130. **M. Estari** and M. Krishna Reddy. Metabolic changes among HIV-infected tribal patients. *Indian Journal of comparative Animal Physiology*, 2006, 24(2), 58-61.
131. **M. Estari** and M. Krishna Reddy. Metabolic changes among HIV-infected tribal patients. *Indian J. Comp. Anim. Physiol.* 24(2), 2006; 74-76.

132. **M. Estari** and M. Krishna Reddy. Trends and measurement of HIV prevalence in tribal areas of north Andhra Pradesh, India. *U.P. Journal of Zoology*, Vol.26 (3), 2006; 343-347.
133. **M. Estari** and M. Krishna Reddy. Seroprevalence of HIV/AIDS infection among tribals in rural areas of Adilabad dist. A.P., India. *Asian J. of Bio-Sci.* Vol.1 (2) 2006: 32-34.

2004-05

134. **M. Estari** and M. Krishna Reddy. Enhancing of tuberculosis disease in HIV-infected patients and evolution of CD4 cell count, *J. Ecophysiol. Occup. Hlth.* Vol.5, 2005: 197-200.
135. **M. Estari** and M. Krishna Reddy. Effect of sexually transmitted diseases on CD4 cell count in HIV-infected patients. *Bulletin of pure and Applied Sciences.* Vol.24 (A) 2005: 67-73.
136. M. Krishna Reddy, S. S. Lakshmi and **M. Estari**. Effect of *saussurea lappa* extracts on fertility in male albino rats. *J. Comp. Toxicol. Physiol.* Vol.2 (1&!!), 2005: 28-31.
137. M. Radha Krishna, **M. Estari**, M. Krishna Reddy and D.R. Krishna. HIV seropositive prevalence in Govt. maternity Hospitals in Warangal, A.P.. India, *Bulletin of Pure and Applied Sciences*, Vol.24A (No.2), 2005: 87-91.
138. **M. Estari** and M. Krishna Reddy. Haematological characteristics and HIV status of pregnant women at antenatal clinics in Adilabad Dist. A.P., India, *Bulletin of Pure and Applied Sciences*, Vol.24A (No.2), 2005: 147-152.
139. **M. Estari** and M. Krishna Reddy. HIV Seroprevalence and awareness about AIDS among rural areas of Adilabad district, Andhra Pradesh, India. *Bulletin of Pure and Applied Sciences.* Vol.23A (No.1), 2004: 59-64.

Papers Published in Seminar Proceedings

1. Estari M, Venkanna L, Pasad P, Rajendra Chary V, Satheesh Kumar P & Rajendra Prasad G. 2012, *Diversity and Physiological Processes*, 101-109.
2. **Estari Mamidala**. 2011. In vitro study for Anti-HIV activity in extracts from fresh water mussel (*Lamellidens marginalis*). *Molecular Diagnostics for Sustainable Health in Biosciences & Technology*, Excel India Publishers, New Delhi, 17-23.
3. **M. Estari**. 2011. Effect of highly active antiretroviral therapy (HAART) on lipid abnormalities in HIV-infected patients. *Proceedings of International Conference on Medical Information and Bioengineering*, 217-219.
4. **M. Estari**, J. Lakan Singh and M. Krishna Reddy. Prevalence and clinical findings of Chikungunya Virus disease in rural areas of Adilabad district, Andhra Pradesh, India. *Implications of Climate Change on Mosquito-Borne Diseases And Its Impact On Public Health*, 2010. 178-181.
5. **M. Estari**, Srinivas Reddy, T. Bikshapati, and M. Krishna Reddy. (2008). Incidence of hepatitis B and hepatitis C viruses in patients infected with the human immunodeficiency virus. *Proceedings of International Conference on Plant Biotechnology and Molecular Biology*, 15-17 Aug'.
6. **M. Estari**, J. Lakan Singh and M. Krishna Reddy. Prevalence and Clinical Findings of Chikungunya Virus Disease in Rural Areas of Adilabad District, Andhra Pradesh, India. *The*

proceedings of the National Workshop of Integrated Mosquito Management and Future Directives, Osmania University, Hyderabad, 2007.63-37.

7. **M. Estari** and M. Krishna Reddy. Impact of pulmonary tuberculosis on survival of HIV infected patients among tribals in rural areas of Andhra Pradesh, India, *Proc. of Mol.Cel.Bio.*2007, 37-41.
8. **M. Estari** and M. Krishna Reddy. Impact of pulmonary tuberculosis on survival of HIV infected patients: A prospective epidemiologic study in Adilabad Dt. A.P., INDIA. *Proc. of Immun. Hlth. Care*, 2006. 129-134.
9. **M. Estari** and M. Krishna Reddy. Impact of CD4 cell count on hemolytic abnormalities in-patients infected with HIV, *The proceedings of the State Level Seminar – Sponsored by UGC on Human Immunohaematology and Pathology*, Rajahmundry, December 2004, 33-37.

Conferences Attended / Paper Presented:

S.No	Conference Title	Organized by	Date
1.	Online Webinar on patent	RGNIIPM, Govt. of India National Training centre for IPR, Nagpur	13-17 th December, 2021
2.	International Virtual Conference on Current trends in Computational and Experimental Biology (CT-CEB 2021)	Bishop Heber college, Tiruchirappalli-620017, India	18 th & 19 th March, 2021
3.	Virtual International Conference on Recent Trends in Biochemistry and Molecular Biology (RTBMB-2021)	Department of Biochemistry, Andra University, Visakhapatnam, India.	7 th & 8 th January, 2021
4.	107 th Indian Science Congress Association	University of Agricultural Sciences , Bangalore	3-7 January 2020
5.	22 nd International Conference on Medical Chemistry, Drug Discovery & Drug Delivery	Singapore, Asia	6 th – 7 th December, 2019
6.	National Seminar on Recent Innovations and Future Prospects in Animal Sciences	Department of Zoology, Kakatiya University, Warangal, TS, India	26 th & 27 th Sept, 2019
7.	National Seminar on Climate Change & Its Impact on Animal Biodiversity	Department of Zoology, Kakatiya University, Warangal, TS, India	28 th & 29 th March, 2019
8.	106 th Indian Science Congress Association	Lovely Professional University, Phagwara, Jalandhar	3-7 January 2019
9.	105 th Indian Science Congress	Manipur University, Imphal	16-20 th March, 2018
10.	International Conference on Integrative Biology & Applied Genetics	Department of Genetics, Osmania University, Hyd	15-17 th March, 2018
11.	National Conference on Advances in Insect Vector Control and Applied Biology	Department of Zoology, Osmania University, Hyd	27-28 Feb, 2018
12.	National Conference on Harmony With Nature in Context of Resource Conservation and Climate Change	Department of Zoology, Kakatiya University, Warangal, TS	21-23 th Dec, 2017

13.	International Conference on Obesity and Weight Loss	Madridge, Barcelona, Spain	6-8th November, 2017
14.	International Conference on Immunology And Immunobiotechnology	Madridge, Barcelona, Spain	1-3th November, 2017
15.	International Conference on Environment Health & Diseases - 2017	Department of Human Genetics and Molecular Biology, Coimbatore	22 – 24 August 2017
16.	Recent innovations in Animal Sciences	Department of Zoology, Kakatiya University, Warangal, TS, India	17-18 th March, 2017
17.	The Indian Science Congress Association.	Sri Venkateswara University, Tirupati	3-7th January, 2017
18.	International Conference on Environmental Conservation and Human health – Challenges and Strategies.	Department of Zoology, Sri Venkateswara University, Tirupati	21-24th October, 2016
19.	National Conference on Harmony with Nature in Context of Resource Conservation and Climate Change	Department of Zoology, Vinobabhave University, Hazaribagh, Jharkhand State.	22-24th October, 2016
20.	6 th National Meeting of Association of Scientists of Indian Origin in America, Inc (ASIOA).	Orlando, Florida State, United States of America.	January 17-18, 2015
21.	2nd International Science Symposium on HIV and Infectious Diseases (HIV SCIENCE 2014)	Chennai. Tamilnadu	30th January – 1st February 2014
22.	International Conference, Harmony-2013 on “Harmony with nature in context of ecotechnological intervention and climate change	Department of Zoology, Gorakhpur University, Gorakhpur.	11-13 November, 2013
23.	4 th International Conference on ‘Anthropogenic Impact on Environment and Conservation Strategy	Department of Zoology, Ranchi University, Ranchi, India	November 2-4, 2012
24.	International Science Symposium on “HIV & Infectious Diseases	Vigyan Auditorium, CSIR Campus, Taramani, Chennai, India	20 to 22 nd January, 2012
25.	National Seminar on “Advances in Zoology & Life Processes	Department of Zoology, Goa University, Goa	9 th to 11 th February, 2012

26.	National Conference on “Molecular diagnostics for Sustainable Health in Biosciences and Technology” (MDSHBT 2011)	Department of Biotechnology, Karunya University, Coimbatore.	20 th to 21 st July, 2011
27.	2 nd International Conference on Bioinformatics and Systems Biology	Department of Zoology, Annamalai University, Annamalai Nagar, Tamilnadu, India.	16-17 th February, 2011
28.	International Conference on Medical Information and Bioengineering (ICMIB 2011)	IACSIT, Chengdu, CHINA	January 14-15, 2011
29.	International Conference on Biological Sciences and Engineering (ICBE-2010)	Cafet-Innova Technical Society. St. Anns Womens College, Hyderabad.	August 22-23, 2010.
30.	National Conference on Medical Biotechnology, Vision-2020, Advanced Centre for Biotechnology	Maharishi Dayananda University, Rohtak, Haryana	16-18 th April, 2010
31.	National Conference on Recent Trends in Biotechnology in Environmental Management	Osmania University, Hyderabad	10 th & 11 th April, 2010.
32.	National Seminar on Emerging Trends in Animal Biotechnology	Department of Zoology, Kakatiya University	26 th – 27 th March, 2010
33.	National seminar on Zoology, Life processes & Nanotechnology	Department of Zoology, Goa University, Goa.	8-10 February, 2010
34.	National symposium on Comparative Endocrinology and Reproductive Physiology: Current advances.	Department of Zoology, The Institute of Science, Mumbai	17-19 December, 2009
35.	International Conference on Environment, Occupational and Lifestyle Concerns – Transdisciplinary Approach.	ROHC-NIOH, Bangalore	16 th to 19 th September 2009
36.	Second Annual Science Symposium on HIV/AIDS 2009, SERC.	Taramani, Chennai	28 th and 29 th August, 2009
37.	International seminar Environmental pollution, Ecology, Human health	Department of Zoology's University, Thirupati.	25-27, July 2009. A.P
38.	National seminar on biotechnology in life science. Current trends and deployments.	Department of Zoology, Kakatiya degree & P.G College, Warangal	18-19 July, 2009
39.	National Seminar on Recent Trends in Animal Sciences.	Department of Zoology, Kakatiya University, Warangal.	12 th -13 th March, 2009

40.	International Symposium on Tribal; Health, Regional Medical Research Centre for Tribals, (ICMR).	Nagpur Road, Jabalpur	27 th February to 1 March, 2009
41.	National seminar on Recent Advances in Molecular Microbiology and Microbial Technology.	Department of Microbiology, Kakatiya University, Warangal.	22-24 January, 2009.
42.	International conference on Novel updates in reproductive Biology and Comparative Endocrinology	Department of Animal sciences, University of Hyderabad, Hyderabad	January 19-21, 2009
43.	1st AP Science Congress 2008, Emerging trends in Science and Technology.	Andhra Pradesh Academy of Sciences and Osmania University, Hyderabad -500 007.	November, 14-16, 2008.
44.	National seminar on Emerging Trends in Modern Biology & 25th Annual Conference of Comparative Animal Physiology, Indian Society for Comparative Animal Physiology.	Tirupathi & Centre for Biotechnology & Dept. of Zoology and Aquaculture Acharya Nagarjuna University Nagarjunanagar-522510. Guntur, A.P.	18-20 October, 2008
45.	International conference on Biotechnology and Molecular Biology.	Department of Biotechnology, Kakatiya University, Warangal.	15 th – 17 th August, 2008
46.	The first annual Science Symposium on HIV/AIDS	Vigyan Auditorium, SERC, Council of Scientific and Industrial Research (CSIR) campus, at Taramani, Chennai-600113.	22 and 23rd of September 2008
47.	XXVI National Symposium on 'Reproductive Biology and Comparative Endocrinology.	Department of Biotechnology and Bioinformatics, Holy cross College, Tiruchirappalli, Tamil Nadu.	January 23-25, 2008
48.	International Conference on "Biotechnological Approaches in Bioresource Management (ICBAM-07), School of Life Sciences.	Department of Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu.	April, 5-7, 2007
49.	International conference on 'Molecular and Cellular Biochemistry of HIV and associated viral infection'.	Department of Biochemistry, School of Life Sciences, University of Hyderabad, Hyderabad.	January 12-14, 2007

50.	National workshop on 'Integrated Mosquito Management and Future Directives'.	Department of Zoology, PG College of Science, Saifabad, O.U., Hyderabad.	January 8-9, 2007.
51.	One day seminar cum workshop on 'Trends and Techniques in Molecular Neuroendocrinology'.	Department of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.	Nov. 24, 2006
52.	National seminar on 'Immunology and Health case'.	Dept, of Zoology, SRR Degree & PG College, Karimnagar.	3-4 November, 2006.
53.	National symposium on 'Tribal health', Regional Medical Research Centre for Tribals (ICMR).	Jabalpur, Madhya Pradesh.	19-20 October, 2006.
54.	National Research conference on 'HIV/AIDS' (NACO & ICMR).	The Ashok Hotel, Chanakyapuri, New Delhi.	April 21-23, 2006.
55.	National seminar on 'Animal cells, Culture, Differentiation and Genetics'.	Kakatiya University, Dept. of Zoology, Warangal.	12-13 March, 2004
56.	National seminary on 'Recent Trends in Environmental Biology and Biotechnological Approach to conserve Biodiversity'.	Dept. of Zoology, Gulbarga University, Gulbarga.	Oct, 22-24, 2005.
57.	XXIII National Symposium on 'Reproductive Biology and comparative Endocrinology'.	Dept. of Zoology, Visva-Bharati, A Central University, Santiniketan.	February 7-9, 2005.
58.	UGC-State Level Seminar on 'human immunohaematology and pathology'.	Dept. of Zoology, SKR college for women, Rajahmundry.	December 17-18, 2004.
59.	XXII Annual Symposium on 'Reproductive Biology and Comparative Endocrinology'.	Department of Endocrinology, University of Madras, Chennai.	January 25-27, 2004.

Books/Chapters authored:

S.No	Book title	ISBN Number	Year
1	Principles Of Biochemistry And Metabolism	978-93-5267-293-6	2016
2	An Introduction To Evolutionary Genetics	978-93-5267-294-3	2016
3	Cell Culture And Molecular Diagnostic Techniques	978-93-5268-564-6	2017
4	Bioinformatics	978-93-5281-182-3	2017
5	Research Methodology	978-93-5281-254-7	2017
6	Tools And Techniques In Biology	978-93-5281-328-5	2017
7	Bioinformatics & Sequence Analysis	978-93-5311-099-4	2019
8	Molecular Docking Studies In Drug Discovery	978-93-5361-060-9	2020
9	Immunology	978-93-5701-141-9	2022
10	Withangulatin – in vitro study	978-93-5300-532-0	2016
11	Medicinal Plants a Source of HIV inhibitors	978-93-5300-542-9	2017
12	Plant Extracts effect on HIV	978-93-5300-734-8	2018
13	Proceedings Of National Seminar On Recent Innovations In Health And Life Science Research	978-93-5780-733-3	2023
14	Innovations In Environment, Health And Medical Research	978-81-952481-1-7	2023
15	Tools and Techniques in Biology SDLCE	978-93-341-0048-8	2024
16	Recent Trends in Animal Biotechnology (RTAB-2024)	978-81-979971-9-8	2024
17	Designing AChE Inhibitors for Alzheimer's: An In Silico Approach	978-81-979971-3-6	2024
18	Targeting Melanoma: In Silico Insights on BRAF V600E	978-81-982510-7-7	2024
19	Androgen receptor blocking agents: In silico approach	978-81-982510-0-8	2024
20	Innovative Techniques in Animal Biotechnology and Immunology for Disease Prevention and Management	978-81-982510-4-6	2025
21	Proceedings of Two Day National Seminar on Recent Trends In Animal Biotechnology	978-81-982510-5-3	2025
22	National Seminar on Molecular Docking and Drug Discovery Techniques	978-81-987815-5-0	2025

Details of patents:

S.No.	Title	Year	Remarks	Status
1	Terpenoid with HIV-1 Reverse Transcriptase Inhibition (Estari, GS)	2019	The Patent Office Journal No. 28/2020 Dated 10/07/2020. p.26190 No.201941000463	Awarded (26.06.2024; No.543113)
2	Flavonoid having anti-diabetes efficacy and use thereof (Estari, Rakesh)	2021	No.202141060142 Indian Patent Office. The Patent Office Journal No. 53/2021 Dated 31/12/202; p.65074	Published
3	Freshwater mussel extract having HIV-1 reverse transcriptase inhibition (Estari)	2021	No. 202141060809 Indian Patent Office. The Patent Office Journal No. 01/2022 Dated 07/01/2022; p.295	Awarded
4	Chrysophanol, An Anthraquinone Of Rumex Vesicarius As A Dipeptidyl Peptidase-Iv (DPP-IV) Inhibitor (Estari, Rakesh)	2022	No.202241015303 Indian Patent Office. The Patent Office Journal No. 15/2022 Dated 18/04/2022;	Awarded (29.05.2024 No: 539878)
5	HIV-1 Reverse Transcriptase Inhibition Of <i>Eclipta alba</i> Extracts (Estari, Lunavath, S)	2024	No.202241059046 Filed on 16.10.2022. Published in The Patent Office Journal No. 42/2022 Dated 21/10/2022, p.67594	Awarded (29.10.2024, No.553396)
6	Plant Extract As An In Vitro Anti-HIV Activity Relating Thereto (Venkanna, Estari, Sripriya)	2023	No. 202341026712. Filed on: 10/04/2023. Published in The Patent Office Journal No. The Patent Office Journal No. 21/2023 Dated 26/05/2023. Page 39167.	Awarded (20.02.2025. No. 560712)
7	Novel Inhibitor for HIV-1 Reverse Transcriptase and Process of Preparation Thereof (Estari, Kandagatla, Srujana)	2024	202441013560. February 25, 2024. The Patent Office Journal No. 10/2024 Dated 08/03/2024, Page:24441	Awarded (29.03.2025 No.564577)
8	Novel Compound And Preparation Thereof for Alpha-Glucosidase Inhibition (Estari, Rakesh, Poornima)	2024	202441042666 filed on 1st June, 2024. The Patent Office Journal No. 24/2024. Dated 14/06/2024. Page No.53704	Awarded (17.12.2024, No 556362)

9	Natural Compound as Novel Antibacterial Agent (Estari, Kavitha, Shanti Kumar)	2024	202441053550 Filed on 12 July 2024. Published in The Patent Office Journal No. 31/2024 Dated 02/08/2024. Page No. 68165	Awarded (21.02.2025, No.560821)
10	α -Amyrin-Conjugated Benzimidazole as Hiv-1 Reverse Transcriptase Inhibitor and Method of Preparation Thereof (Estari, Poornima)	2025	202541044494 Filed on 08/05/2025. Published in The Patent Office Journal No. 23/2025, Dated 06/06/2025, p53852	Published

Invited Talks:

1. Delivered an Invited Lecture on 5th January, 2023 at 108th Indian Science Congress-2023 at Rashtrasanth Tukadoji Maharaj Nagpur University (RTMNU), Nagpur in the symposium IB: Current and Future Trends in Health care genetic Disorders & Communicable Diseases.
2. Delivered Extension Lecture on "Molecular Biology" at Pingle Government College for Women, Warangal on 3-11-2018.
3. Delivered Extension lecture on "Animal Biotechnology" on 20.07.2017 at Government Degree College for Women, Khammam.
4. Delivered lecture at "Intensive Training Programme for Tribal Students on Science & Technology" on 15-08-2017.
5. Delivered lecture during the "Food Security for Women and Children in India: challenges and Opportunities" on 22nd March, 2016, at Centre for Womens Studies, Kakatiya University, Warangal.
6. Invited speaker at the "3rd National Conference on Infectious Diseases" at A.I.I.M.S, New Delhi on 18th April, 2010.
7. Invited Speaker at CV Raman PG College, Mancheryal, Adilabad district, Telangana State, January, 12, 2010.
8. Invited speaker at Government Degree College for Men, Mancheryal, Adilabad district. September, 2009.
9. Invited speaker at Sri Kakatiya Institute of Pharmaceutical Sciences, Warangal. December, 2009.
10. Invited Speaker at Sri Chaitanya Institute of Pharmaceutical Sciences, Warangal, 2009.

Seminars/workshops/training programmes organized:

1. Workshop on Computational Biology (25-26 May, 2020)
2. National Seminar on Recent Innovations and Future prospects in Animal Sciences (September 26-27, 2019)
3. National Seminar on Climate Change & its impact on Animal Bio-diversity (March 28-29, 2019)
4. National Workshop on Molecular Docking Studies in Drug Discovery (May 29-31, 2019)
5. National Workshop on Bioinformatics and Sequence Analysis, 26-28TH April, 2018, Department of Zoology, Kakatiya University, Warangal.
6. Organized a DBT sponsored short term training course on "Animal Cell Culture and Molecular Diagnostic Techniques" 2014

7. Organized a National Workshop on “Research Methodology in Sciences” In Department of Zoology, Kakatiya University, July 26-28th, 2010
8. Organized a Two Days workshop on “Biological Applications of Computers and Bioinformatics” in the Department of Zoology, Kakatiya University, October, 6-7, 2010.

Workshops/training courses attended:

1. Online National level FDP on Applications of Chemoinformatics in Drug Discovery, organized by Department of Chemistry, RBVRR Womens college, Hyderabad & Qstatix Pvt. Ltd, India. On 6th to 11th September, 2021.
2. Online Workshop on CRISPR: A Game changing Genetic Engineering Technique, organized by CytoGene Research & Development, Lucknow, from 27th & 29th of August, 2021.
3. Online Workshop on Molecular Dynamics Simulations and In-Silico Drug Designing, organized by CytoGene Research & Development, Lucknow, on 12&13 of June, 2021.
4. Online Workshop on DNA Bar-Coding: A Challenge to Linnaeus classification, organized by CytoGene Research & Development, Lucknow, on 22nd & 23rd of May, 2021.
5. 40-hour Online FDP on ADVANCES IN BIOINFORMATICS, organized by Department of Biotechnology, NIT, Warangal, during 10th May 2021.
6. Online Continuing Education Program on Machine Learning with Python, Department of Computer Science & Engineering, NIT, Warangal from 12-04-2021 to 16-04-2021
7. UGC STRIDE Workshop on Molecular Phylogeny and Molecular Docking, from 19th to 27th, January, 2021 at Mezoram University, Aizwal, Mizoram.
8. Online Training on Molecular Dynamic Simulations, organized by Qstatix Pvt. Ltd, India, on 06-05-2020 to 15-06-2020.
9. Six-Day Faculty Development Workshop on Teaching and Learning Practices of Data Analysis through Hands-on Experience, Department of Computer Science & Engineering and Biotechnology, TLC, NIT, Warangal, during 9th -14th March, 2020.
10. 20th Indo-US Flow Cytometry Workshop on Diagnosis of Primary Immune Deficiency Disorders organized by DHR-ICMR, on 7th -8th, 2019, Mumbai, India.
11. Training programme on Training of Teachers (ToT) for Student Induction Programme (SIP), UGC, South Eastern Regional Office, Hyderabad on 16th to 18th May, 2019.
12. One week workshop on Teaching & Learning of Molecular Biology & Enzymology through Hands-on Experience, Department of Biotechnology, NIT, Warangal, 18-23 September, 2018.
13. 3 Day workshop on Molecular Modeling Using Open Source Software, Department of Chemistry, Osmania University, Hyderabad, 29-31st October, 2018
14. 2 Day Training cum workshop on Drug Discovery Technology Computational Approaches in Drug Discovery & Design, Department of Biomedical Science, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Delhi, 18019, January, 2018
15. Two-day Science Academies Lecture Workshop on “Animal Biodiversity, Ecology & Strategies of Conservation”, Department of Zoology, Kakatiya University, Warangal, Telangana. 9th & 10th November, 2017.
16. UGC sponsored National on Bioinformatics and Sequence Analysis, Department of Zoology, Centre for Bioinformatics, NMCC, Kanyakumari, Tamilnadu. October 9-10, 2017
17. National Workshop and Continuous Medical Education and Clinical Immunology, past and present. Department of Biotechnology, NIT, Warangal. 20-21st January, 2016.
18. Short term training programme on *Introduction To Bio-Medical Informatics*, Bio-Medical Informatics Centre (ICMR), Department of Biophysics, All India Institute of Medical Sciences, **New Delhi**, India -110029, April 21-23, 2010.

19. Workshop on *Molecular modelling and drug design*, Centre for Modelling Simulation and Design, University of Hyderabad, **Hyderabad**, August 2 - 7, 2010.
20. A National Workshop on "Research Methodology in Sciences" In Department of Zoology, Kakatiya University, July 26-28th, 2010.
21. A Two Days workshop on "Biological Applications of Computers and Bioinformatics" in the Department of Zoology, Kakatiya University, October, 6-7, 2010.
22. Workshop on Molecular Modelling and Drug Design. 02-08-2010 to 07-08-2010. University of Hyderabad, Hyderabad.
23. National Training Course on "*Animal Cell Culture Techniques and Molecular Diagnostic Virology*", 05-01-2009 to 19-01-2009. College of Veterinary & Animal Sciences, Udgir, Maharashtra Animal & Fishery Sciences University, Nagpur.
24. Research Training Programme on "*Application of Research Techniques in Reproductive Biomedicine*," 17-11-2009 to 28-11-2009. Department of Reproductive Biomedicine, NIHFW, New Delhi,
25. Workshop on Recombinant DNA Technology. 20-05-2010 to 31-05-2010. Central Facility for Biotechnology Teaching and Research, Madurai.

Orientation/Refresher Courses Attended:

1. Refresher Course on Life Sciences at UGC-Human Resource Development Centre (HRDC). Pondicherry University, Pondicherry. June 8 to 28, 2016.
2. Science Academies Refresher Course on Infectious Diseases at Haffkine Institute for Training, Mumbai on September 22 to October 5, 2013
3. Refresher Course on Information Technology (ID) 04-07-2012 to 25-07-2012 at UGC, Academic Staff College, Osmania University, Hyderabad.
4. Orientation Course. 25th April 2011 to 21st May, 2011 (21 Days). UGC, Academic Staff College, Osmania University, Hyderabad.

Ph.D Supervision:

Sl.No	Student Name	Ph.D Title	Awarded
1	L. Venkanna	<i>In vitro</i> anti-HIV activity of medicinal plant extracts from Warangal district, Andhra Pradesh, India	2011
2	E. Sucharitha	Evaluation of antidiabetic and antilipidemic properties of medicinal plant extracts used by tribal communities in rural areas of Warangal district, Andhra Pradesh.	2013
3	G. Rajendra Prasad	In vitro cytotoxic and anti HIV activity of traditional medicinal plants used by the tribes of Khammam district Andhra Pradesh, India.	2014
4	P. Satheesh Kumar	Anti-diabetic effect of traditional medicinal plant <i>Physalis angulata</i> fruit extracts in streptozotocin induced diabetic rats.	2015
5	V. Rajendra Chary	In vitro and in vivo screening of traditional anti diabetic medicinal plants of Warangal district Andhra Pradesh, India."	2015

6	Paindla Prasad	Anti HIV studies in some selected medicinal plants used by tribes of Adilabad district, Andhra Pradesh, India.	2016
7	Porika Raju	Effect of <i>Physalis angulata</i> fruit extract on rat pancreatic beta cells.	2016
8	Burgula Kavitha (M.Phil)	Study on some medicinal plants used by the tribals of Khammam District, Andhra Pradesh, India	2015
9	Swapna Gurrapu	In vitro activity of selected medicinal plants against HIV type-1 reverse transcriptase	2018
10	Davella Rakesh	Isolation And Characterization Of Antidiabetic Agent From Rumex Vesicarius Leaves And In Vivo Evaluation In Diabetic Rats https://shodhganga.inflibnet.ac.in/handle/10603/362891	2021
11	Buchipal Reddy	Effect Of Plant Extracts On Fertility In Male Rats https://shodhganga.inflibnet.ac.in/handle/10603/376334	2022
12	Pujala Shivakrishna	In vitro and in silico hypoglycemic effects of phytochemicals isolated from the leaves of <i>Costus igneus</i>	2023
13	B. Kavitha	Isolation, Purification and Characterization of Antibacterial molecules from selected traditional medicinal plants of Khammam District, Telangana State	2025

Foreign visits :

1. 2011 China
2. 2014 USA
3. 2019 Spain
4. 2020 Malaysia
5. 2020 Singapore

TOP 10 PUBLICATIONS

1. Tania Luthra, Rahul Agarwal, **Mamidala Estari**, Uma Adepally, Subhabrata Sen. A novel library of alpha-arylketones as potential inhibitors of α -glucosidase: Their design, synthesis, *in vitro* and *in vivo* studies. Nature-Scientific Reports, 2017;7(1):13246. Available from: <http://dx.doi.org/10.1038/s41598-017-13798-y>.
2. Rakesh Davella, Swapna Gurrapu, Estari Mamidala, Phenolic compounds as promising drug candidates against COVID-19 - an integrated molecular docking and dynamics simulation study, Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 522-527,

Avilabale from: <https://doi.org/10.1016/j.matpr.2021.05.595>.

3. 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.*, 2021; 25(5):4814 – 4827.
Available from: <https://www.annalsofrscb.ro/index.php/journal/article/view/5933>
4. Mamidala, E., Davella, R., Gurrapu, S., & Kumar, M. Abhiav. In silico Prediction of Mozenavir as potential drug for SARS-CoV-2 infection via Binding Multiple Drug Targets. arXiv preprint, arXiv:2106.05440. 2021.
Available from: <https://arxiv.org/abs/2106.05440>.
5. Estari Mamidala, Rakesh Davella , Swapna Gurrapu and Pujala Shivakrishna , In Silico Identification of Clinically Approved Medicines Against the main Protease of Sars-Cov-2 – A Causative Agent of Covid-19. *Int. J. Life Sci. Pharma Res.* 2020;11(1):L107-122.
Available from: <http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.1.L107-122>).
6. 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.
Available from: <https://doi.org/10.1016/j.sjbs.2019.12.007>
7. 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.
Available from: <https://doi.org/10.1016/j.jksus.2020.01.043>
8. 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.
Avilabale from: <http://dx.doi.org/10.18311/ajprhc/2020/25080>.
9. 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.
Available from: <https://doi.org/10.1002/jhet.3819>.

10. Ranjith kumar Thatipamula , Sirassu Narsimha , Kumaraswamy Battula ,V. Rajendra Chary, **Estari Mamidala**, Nagavelli Vasudeva Reddy (2017). Synthesis, anticancer and antibacterial evaluation of novel (isopropylidene) uridine 1,2,3] triazole hybrids. Journal of Saudi Chemical Society. 21, 795–802. Available from: <https://dx.doi.org/10.1016/j.jscs.2015.12.001>.
11. Anjaly Babu, D. Rakesh, P. Supraja, Siju Mishra, K. Uday Kumar, R. Rakesh Kumar, D. Haranath, Estari Mamidala, Raju Nagapuri, Plant-based triboelectric nanogenerator for biomechanical energy harvesting, Results in Surfaces and Interfaces, Volume 8, 2022, 100075, ISSN 2666-8459, <https://doi.org/10.1016/j.rsufi.2022.100075>.