CV of James H. Zothantluanga

Name: James H. Zothantluanga

Designation: Assistant Professor

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Date of Birth: 27th June, 1995

Educational Qualifications:

Sl.No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/ 10th Std.	2011	Mizoram Board of School Education	English, Mizo, Mathematics, Science, Social Science
2	HSSLC/ 10+2 Std.	2013	Mizoram Board of School Education	English, Mizo, Physics, Chemistry, Biology
3	B. Pharm	2017	Dibrugarh University	Pharmaceutical Sciences
4	M. Pharm	2020	Dibrugarh University	Pharmacognosy
5	Ph. D.	2025 (Expected)	Dibrugarh University	Pharmaceutical Sciences
6	Post-Doctoral	N/A	N/A	N/A
7	Others	GPAT	AICTE, GoI	Pharmacy

Languages known: Mizo, English

(Read, Write & Speak)

Academic/ Administrative Experience:

- Teaching: 01.09.2025 – ongoing

List of Publications:

Peer-reviewed

1. **Zothantluanga JH**, Tayeng D, Abdalla M, Rajkhowa S, Eltayb WA, Chetia D. Investigation of the antimalarial efficacy of Ilex umbellulata (Wall.) Loes. bark against Plasmodium falciparum using in-vitro whole-cell assays, GC-MS, LC-ToF-MS, and multi-step computational studies. *J Ethnopharmacol*. 2025. 352, 120150
2. Sen S, Dutta K, Borthakur MS, Chetia D, Tayeng D, **Zothantluanga JH**, Karati D. Comparative *in-silico* study on the antimalarial, anti-HIV, and diuretic properties of a series of substituted bis-2-hydroxy-1,4-naphthoquinone derivatives. *Discov Chem*. 2025; 2, 46.
3. **Zothantluanga JH**, Chetia D, Umbon Y, Lalhriatpuii TC, Roy D, Lamare N, Lalvenhimi S. Pharmacognostic analysis and antimalarial evaluation of quercetin in Ilex umbellulata bark using HPTLC, in vitro screening, molecular docking, and network pharmacology. *Future J Pharm Sci*. 2025; 11, 18.
4. Kakoti B, **Zothantluanga JH**, Deka K, Hlader RK, Roy D. In silico design and computational screening of berberine derivatives for potential antidiabetic activity through allosteric activation of the AMPK pathway. *In Silico Pharmacol*. 2025; 13(12).
5. Abdalla M, Abdelkhalig SM, Edet UO, **Zothantluanga JH**, Umoh EA, Moglad E, Nkan NA, Hader MM, Alanazi TMR, AlShouli S, Al-Shouli S. Molecular dynamics-based computational investigations on the influence of tumor suppressor p53 binding protein against other proteins/peptides. *Sci Rep*. 2024; 14, 29871.
6. Sachdeva P, Narayanan KB, Sinha JK, Gupta S, Ghosh S, Singh KK, Bhaskar R, Almutary AG, **Zothantluanga JH**, Kotta KK, Nelson VK, Paiva-Santos AC, Abomughaid MM, Kamal M, Iqbal D, ALHarbi MH, ALMutairi AA, Dewanjee S, Nuli MV, Vippamakula S, Jha SK, Ojha S, Jha NK. Recent Advances in Drug Delivery Systems Targeting Insulin Signalling for the Treatment of Alzheimer's Disease. *J Alzheimers Dis*. 2024; 98(4):1169-1179.

7. **Zothantluanga JH**, Umar AK, Aswin K, Rajkhowa S, Chetia D. Revelation of potential drug targets of luteolin in *Plasmodium falciparum* through multi-target molecular dynamics simulation studies. *J Biomol Struct Dyn*. 2023 doi: 10.1080/07391102.2023.2263875.
8. Umar AK, Roy D, Abdalla M, Modafer Y, Al-Hoshani N, Yu H, **Zothantluanga JH**. *In-silico* screening of *Acacia pennata* and *Bridelia retusa* reveals pinocembrin-7-O-β-D-glucopyranoside as a promising β-lactamase inhibitor to combat antibiotic resistance. *J Biomol Struct Dyn*. 2024; 42(17):8800-8812.
9. **Zothantluanga JH**, Umar AK, Ali Eltayb W, Patowary L, Borthakur MS, Tayeng D, et al. An In-Silico Investigation on the Molecular Interactions between Ellagic Acid and Pf DHFR-TS. *Polycycl Aromat Compd*. 2023 44(6): 4081-4102.
10. Paul A, **Zothantluanga JH**, Rakshit G, Celik I, Rudrapal M, Zaman MdK. Computational Simulations Reveal the Synergistic Action of Phytochemicals of *Morus alba* to Exert Anti-Alzheimer Activity via Inhibition of Acetylcholinesterase and Glycogen Synthase Kinase-3β. *Polycycl Aromat Compd*. 2024; 44(5):3476–500.
11. **Zothantluanga JH**, Lalthanzara H, Umar AK, Chetia D. Molecular docking studies reveal the phytocompound of Acacia pennata responsible for the potential inhibition of α - glucosidase. *Sci Vis*. 2023; 23(1):12–18.
12. Kakhar Umar A, **Zothantluanga JH**, Luckanagul JA, Limpikirati P, Sriwidodo S. Structure-based computational screening of 470 natural quercetin derivatives for identification of SARS-CoV-2 M^{pro} inhibitor. *PeerJ*. 2023; 11:e14915.
13. Sarma M, Abdalla M, **Zothantluanga JH**, Abdullah Thagfan F, Umar AK, Chetia D, Almanaa TN, Al-Shouli ST. Multi-target molecular dynamic simulations reveal glutathione-S-transferase as the most favorable drug target of knipholone in *Plasmodium falciparum*. *J Biomol Struct Dyn*. 2023; 41(22):12808-12824.
14. **Zothantluanga JH**, Chetia D, Rajkhowa S, Umar AK. Unsupervised machine learning, QSAR modelling and web tool development for streamlining the lead identification process of antimalarial flavonoids. *SAR QSAR Environ Res*. 2023; 34(2):117-146.
15. Umar AK, **Zothantluanga JH**, Aswin K, Maulana S, Sulaiman Zubair M, Lalhlenmawia H, Rudrapal M, Chetia D. Antiviral phytocompounds "ellagic acid" and "(+)-sesamin" of *Bridelia retusa* identified as potential inhibitors of SARS-CoV-2 3CL pro using

extensive molecular docking, molecular dynamics simulation studies, binding free energy calculations, and bioactivity prediction. *Struct Chem*. 2022; 33(5):1445-1465.

16. Pasala PK, Uppara RK, Rudrapal M, **Zothantluanga JH**, Umar AK. Silybin phytosome attenuates cerebral ischemia-reperfusion injury in rats by suppressing oxidative stress and reducing inflammatory response: In vivo and in silico approaches. *J Biochem Mol Toxicol*. 2022; 36(7):e23073.
17. **Zothantluanga JH**, Abdalla M, Rudrapal M, Tian Q, Chetia D, Li J. Computational Investigations for Identification of Bioactive Molecules from Baccaurea ramiflora and Bergenia ciliata as Inhibitors of SARS-CoV-2 M pro. *Polycycl Aromat Compd*. 2022; 43(3):2459-2487.
18. Rudrapal M, Celik I, Khan J, Ansari MA, Alomary MN, Yadav R, Sharma T, Tallei TE, Pasala PK, Sahoo RK, Khairnar SJ, Bendale AR, **Zothantluanga JH**, Chetia D, Walode SG. Identification of bioactive molecules from *Triphala* (Ayurvedic herbal formulation) as potential inhibitors of SARS-CoV-2 main protease (Mpro) through computational investigations. *J King Saud Univ Sci*. 2022; 34(3):101826.
19. Rudrapal M, Celik I, Chinnam S, Azam Ansari M, Khan J, Alghamdi S, Almehmadi M, **Zothantluanga JH**, Khairnar SJ. Phytocompounds as potential inhibitors of SARS-CoV-2 Mpro and PLpro through computational studies. *Saudi J Biol Sci*. 2022; 29(5):3456-3465.
20. **Zothantluanga JH**, Aswin SK, Rudrapal M, Cheita D. Antimalarial flavonoid-glycoside from acacia pennata with inhibitory potential against PfDHFR-TS: An in-silico study. *Biointerface Res Appl Chem* 2022; 12(4):4871–4887.
21. Umar AK, Kelutur FJ, **Zothantluanga JH**. Flavonoid Compounds of Buah Merah (Pandanus conoideus Lamk) as a Potent Oxidative Stress Modulator in ROS-induced Cancer: In Silico Approach. *Majalah Obat Tradisional* 2021; 26(3):221.
22. Patowary L, Borthakur MS, **Zothantluanga JH**, Chetia D. Repurposing of FDA approved drugs having structural similarity to artemisinin against PfDHFR-TS through molecular docking and molecular dynamics simulation studies. *Curr Trends Pharm Res*. 2021; 8(2):14–34.

23. Kikon R, Chetia D, Borthakur MS, Patowary L, Tayeng D, **Zothantluanga JH**. In-silico design and screening of quinolone derivatives against gyrase of Staphylococcus aureus. *Curr Trends Pharm Res*. 2022; 9(1):1–16.
24. Rudrapal M, Mishra AK, Rani L, Sarwa KK, **Zothantluanga JH**, Khan J, Kamal M, Palai S, Bendale AR, Talele SG, Pathan VT, Borse LB, Neharkar VS, Sahoo PK. Nanodelivery of Dietary Polyphenols for Therapeutic Applications. *Molecules*. 2022; 27(24):8706.
25. **Zothantluanga JH**, Chetia D. A beginner's guide to molecular docking. *Sci Phytochem*. 2022; 1(2):37–40.
26. Umar AK, Luckanagul JA, **Zothantluanga JH**, Sriwidodo S. Complexed Polymer Film-Forming Spray: An Optimal Delivery System for Secretome of Mesenchymal Stem Cell as Diabetic Wound Dressing? *Pharmaceuticals*. 2022; 15(7):867.
27. Sriwidodo S, Umar AK, Wathoni N, **Zothantluanga JH**, Das S, Luckanagul JA. Liposome-polymer complex for drug delivery system and vaccine stabilization. *Heliyon*. 2022; 8(2):e08934.
28. Pathak K, Pathak MP, Saikia R, Gogoi U, Sahariah JJ, **Zothantluanga JH**, Samanta A, Das A. Cancer Chemotherapy *via* Natural Bioactive Compounds. *Curr Drug Discov Technol*. 2022; 19(4):e310322202888.
29. Pasala PK, Abbas Shaik R, Rudrapal M, Khan J, Alaidarous MA, Jagdish Khairnar S, Bendale AR, Naphade VD, Kumar Sahoo R, **Zothantluanga JH**, Walode SG. Cerebroprotective effect of Aloe Emodin: *In silico* and *in vivo* studies. *Saudi J Biol Sci*. 2022; 29(2):998-1005.
30. **Zothantluanga JH**. Molecular Docking Simulation Studies, Toxicity Study, Bioactivity Prediction, and Structure-Activity Relationship Reveals Rutin as a Potential Inhibitor of SARS-CoV-2 3CL pro. *J Sci Res. 2021*; 65(05):96–104.
31. **Zothantluanga JH**, Gogoi N, Shakya A, Chetia D, Lalthanzara H. Computational guided identification of potential leads from Acacia pennata (L.) Willd. as inhibitors for cellular entry and viral replication of SARS-CoV-2. *Futur J Pharm Sci*. 2021; 7(1):201.
32. Umar AK, **Zothantluanga JH**. Structure-Based Virtual Screening and Molecular Dynamics of Quercetin and Its Natural Derivatives as Potent Oxidative Stress Modulators in ROS-induced Cancer. *Indonesian J Pharm*. 2021; 3(2):60.

33. Khan J, Asoom LIA, Khan M, Chakrabartty I, Dandoti S, Rudrapal M, **Zothantluanga JH**. Evolution of RNA viruses from SARS to SARS-CoV-2 and diagnostic techniques for COVID-19: a review. *Beni Suef Univ J Basic Appl Sci*. 2021; 10(1):60.
34. **Zothantluanga JH**, Sailo N, Paul A, Shakya A. Pharmacognostical characterization and in vitro antioxidant activity of Acacia pennata (L.) Willd. leaves: A Southeast Asian medicinal plant. *Sci Vis*. 2020; 20(1):16–28.
35. **Zothantluanga JH**, Lalthanzara, H, Shakya A, Joseph HL. COVID-19 incidence in Mizoram, India. *Sci Vis*. 2020; 20(3):93–105.
36. Hmar EBL, Paul S, **Zothantluanga JH**, Sharma HK. Ulcerative colitis: A review on drug delivery strategies. *Sci Vis*. 2020; 20(1):1–15.
37. Paul S, Hmar EBL, **Zothantluanga JH**, Sharma HK. Essential oils: a review on their salient biological activities and major delivery strategies. *Sci Vis*. 2020; 20(2):54–71.
38. Vanlalhriatpuii C, **Zothantluanga JH**, Bhat HR, Shakya A. Pre-clinical research techniques for investigating therapeutic leads against gastrointestinal ulcer. *Curr Trends Pharm Res*. 2020; 7(1):65–89.
39. **Zothantluanga JH**, Vanlalhriatpuii C, Lalthanzara H, Lalhlenmawia H, Bhat HR, Shakya A. Ethnomedicinal Plants Used Against Diarrhea Available in Mizoram, Northeast India: A Systematic Review. *Sci Tech J*. 2020; 8(1):5–23.
40. **Zothantluanga JH**. Ethnopharmacology and phytochemistry-based review on the antimalarial potential of Acacia pennata (L.) Willd. *Sci Vis*. 2020; 20(4):139–47.
41. **Zothantluanga JH**, Chetia D. Clinical evidence on the safety and efficacy of vitamin C in COVID-19: An updated review. *Curr Trends Pharm Res*. 2020; 7(2):40–54.
42. **Zothantluanga JH**, Lalnunpuii HS, Bhat HR, Shakya A. Awareness on the possible adverse effects of Garicnia cambogia: A scientific approach. *Sci Vis*. 2019; 19(4):120–33.
43. **Zothantluanga JH**, Bhat HR, Shakya A. A systematic review on the nutraceutical potential of Acacia pennata (L.) Willd. *Curr Trends Pharm Res*. 2019; 6(2):12–7.

Book

1. **Zothantluanga JH**, Lalthanzara H, Shakya A, Chetia D. The outbreak of COVID-19 in Mizoram, India. Rizug, India. 2020. ISBN: 978-81-941388-6-0

Book chapters

1. Umar AK, Limpikirati P, **Zothantluanga JH**, Shumkova MM, Prosvirkin G, Luckanagul JA. Telepharmacy: a modern solution for expanding access to pharmacy services. In: Artificial Intelligence, Big Data, Blockchain and 5G for the Digital Transformation of the Healthcare Industry. *Elsevier*; 2024. p. 111–150.
2. Upadhyay S, Bhushan R, Kumar Dubey P, A Sheikh B, Rudrapal M, **Zothantluanga JH**. Aromatic Plants, Essential oils, Carminatives, Tea Plants and Expectorant Herbs for the Management of COVID-19. In: Medicinal Plants, Phytomedicines and Traditional Herbal Remedies for Drug Discovery and Development against COVID-19. *Bentham Science*; 2023. p. 219–232.
3. **Zothantluanga JH**, Paul A, Umar AK, Chetia D. Drug Repurposing and Computational Drug Discovery for Parasitic Diseases and Neglected Tropical Diseases (NTDs). In: Drug Repurposing and Computational Drug Discovery. New York: *Apple Academic Press*; 2023. p. 77–109.
4. **Zothantluanga JH**, Umar AK, Lalhlenmawia H, Vinayagam S, Borthakur MS, Patowary L, et al. Computational screening of phytochemicals for anti-parasitic drug discovery. In: Phytochemistry, Computational Tools and Databases in Drug Discovery. *Elsevier*; 2023. p. 257–283.
5. Rudrapal M, Vallinayagam S, **Zothantluanga JH**, Chetia D, Egbuna C, Walode SG. Nanophytomedicines: nature to medicines. In: Applications of Nanotechnology in Drug Discovery and Delivery. *Elsevier*; 2022. p. 71–93.
6. **Zothantluanga JH**, Zonunmawii, Das PJ, Sharma H, Umar AK. Nanotherapeutics of Phytoantioxidants for Parasitic Diseases and Neglected Tropical Diseases. In: Phytoantioxidants and Nanotherapeutics. *Wiley*; 2022. doi: 10.1002/9781119811794.ch16
7. Sarma H, Kashyap P, **Zothantluanga JH**, Devi R. Nanotherapeutics of phytoantioxidants for cardiovascular diseases. In: Phytoantioxidants and Nanotherapeutics. *Wiley*; 2022. doi: 10.1002/9781119811794.ch18
8. **Zothantluanga JH**, Paul A, Sailo N, Zonunmawii, Lalthanzara H, Chetia D. Dietary Polyphenols in Parasitic Diseases and Neglected Tropical Diseases (NTDs). In: Dietary Polyphenols in Human Diseases. Boca Raton: *CRC Press*; 2022. p. 195–206.

9. Pachuau L, Laldinchhana, Roy PK, **Zothantluanga JH**, Ray S, Das S. Encapsulation of Bioactive Compound and Its Therapeutic Potential. In: Bioactive Natural Products for Pharmaceutical Applications. *Springer*; 2021. p. 687–714.

Research Experience:

- Doctoral thesis guided: N/A
- Research & Consultancy Projects: N/A

Membership of Professional bodies:

- Member, Mizo Academy of Sciences, India
- Member, Mizoram Pharmacists Association, India
- Registered Pharmacist, Mizoram State Pharmacy Council, India

Award, Fellowship & Recognition:

- Junior Research Fellowship (2021-2023) & Senior Research Fellowship (2023-2025) under the scheme – National Fellowship for Higher Education for ST Students.
- Founder and Editor-in-Chief, Scientific Advances in Pharmaceutical Sciences, a new peer-reviewed journal published by Jazer (https://journal.jazer.in/index.php/saps).
- Invited Speaker, Science Career Guidance & Awareness at Ar-Ells School, Chaltlang, Aizawl, Mizoram, India, 14 January 2025.
- 3rd Best Oral Presentation Award for the development of a 2D-QSAR-based web tool at the International Conference: Navigating the Future of Pharma & Biotech Industry: Harmonizing the Industry and Academia, Dibrugarh University, 21st–22nd March 2025 (https://etflin.com/software/JazQSAR).
- Founder of Jazer, an online Educational Brand. Hosted and delivered lectures for multiple webinars since 2023 (https://www.jazer.in/).
- Editor-in-Chief, Sciences of Phytochemistry, ETFLIN, Indonesia (2022 – 2023).
- 2nd Best Poster Award, National Seminar: Integration of Traditional Herbal Medicines of NE India in Clinical Practice: Importance, Challenges, and Future, Dibrugarh University, 4th–5th November 2022.
- Invited Speaker, International Webinar: *In-silico* Techniques Used in Pharmaceutical Research, FMIPA Tadulako University, Indonesia, 26 June 2022.

- Best Poster Presentation Award, National Seminar: Trends in Biological Sciences and Sustainable Development, Dibrugarh University, 5th–6th February 2020.

Date: 04.09.2025 James H. Zothantluanga