

Academic CV – Dr. Hemanga Hazarika

Name: **Dr. Hemanga Hazarika**

Designation: **Assistant Professor**

Address for Communication: Department of Pharmaceutics, GIPS-Tezpur

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Email: hemanga14@gmail.com

Sex: Male

Date of Birth: 01/02/1991

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 th Std.	2007	SEBA	
2	HSSLC/10+2 Std.	2009	AHSEC	
3	Degree (B. Pharm.)	2013	Gauhati University	
4	Master's Degree (M. Pharm.)	2015	Asam Science and Technology University	Pharmaceutics
5	MBA	2015	Sikkim Manipal University	Total Quality Management
6	Ph. D.	2022	Dibrugarh University	Pharmaceutical Sciences

Languages known: English, Hindi, Assamese

(Read, Write & Speak)

Academic/Administrative Experience:

1. Co-ordinator of Research and Innovation Cell, GIPS-Tezpur
2. Co-ordinator of NBA cell
3. 3 years and 6 months of Teaching experience
4. 1 year experience of Bench Chemist in Regional Drugs Testing Laboratory, Min. of Health and Family Welfare, Govt. of India

Research Experience:

- 5 Years, Full time JRF and SRF, DRDO, Min. of Defence, Govt. of India
- Doctoral thesis guided: NA
- Research & Consultancy Projects: A/F

List of Publications:

1. **Hazarika Hemanga**, Rajan, R.K., Pegu, P.N.P, Das, P.J., 2025. Insecticide resistance in mosquitoes: molecular mechanisms, management, and alternatives. *Journal of Pest Science*. (Accepted) [IF: 4.3]
2. **Hazarika Hemanga**, Laskar, M.A., Krishnatreyya, H., Islam, J., Kumar, M., Zaman, K., Goyary, D., Seliya, H., Tyagi, V. and Chattopadhyay, P., 2024. Bioaccumulation of Deltamethrin and Piperonyl butoxide in Labeo rohita fish. *Ecotoxicology and Environmental Safety*, 284, p.116908. Doi: <https://doi.org/10.1016/j.ecoenv.2024.116908> [IF: 6.2]
3. **Hazarika Hemanga**, Krishnatreyya, H., Tyagi, V., Islam, J., Gogoi, N., Goyary, D., Chattopadhyay, P. and Zaman, K., 2022. The fabrication and assessment of mosquito repellent cream for outdoor protection. *Scientific Reports*, 12(1), p.2180. Doi: <https://doi.org/10.1038/s41598-022-06185-9> [IF:4.3]
4. **Hazarika Hemanga**, Tyagi, V., Krishnatreyya, H., Roy, P.K., Islam, J., Chakraborty, S., Gogoi, N., Kishor, S., Bhutia, Y.D., Goyary, D. and Karmakar, S., 2020. Design, development and assessment of an essential oil based slow-release vaporizer against mosquitoes. *Acta Tropica*, 210, p.105573. Doi: <https://doi.org/10.1016/j.actatropica.2020.105573> [IF: 2.1]
5. **Hazarika Hemanga**, Tyagi, V., Krishnatreyya, H., Islam, J., Boruah, D., Kishor, S., Chattopadhyay, P. and Zaman, K., 2020. Essential oil based controlled-release non-toxic evaporating tablet provides effective repellency against *Musca domestica*. *Acta Tropica*, 210, p.105620. Doi: <https://doi.org/10.1016/j.actatropica.2020.105620> [IF: 2.1]
6. Sahu, B.P., **Hazarika Hemanga**, Bharadwaj, R., Loring, P., Baishya, R., Dash, S. and Das, M.K., 2016. Curcumin-docetaxel co-loaded nanosuspension for enhanced anti-breast cancer activity. *Expert opinion on drug delivery*, 13(8), pp.1065-1074. Doi: <https://doi.org/10.1080/17425247.2016.1182486> [IF: 5.0]
7. Krishnatreyya, H., **Hazarika Hemanga**, Saha, A. and Chattopadhyay, P., 2018. Fundamental pharmacological expressions on ocular exposure to capsaicin, the principal constituent in pepper sprays. *Scientific Reports*, 8(1), pp.1-17. Doi: <https://doi.org/10.1038/s41598-018-2>

8. Krishnatreyya, H., **Hazarika Hemanga**, Saha, A., Mandal, S., Bora, N.S., Kishor, S., Bhutia, Y.D., Goyary, D., Karmakar, S. and Chattopadhyay, P., 2020. Amelioration from the ocular irritant Capsaicin: Development and assessment of a Capsazepine in situ gel system for ocular delivery. *Expert Opinion on Drug Delivery*, 17(6), pp.863-880. Doi: <https://doi.org/10.1080/17425247.2020.1754396> [IF: 5.0]
9. Chakrabarti, S., Islam, J., **Hazarika Hemanga**, Mazumder, B., Raju, P.S. and Chattopadhyay, P., 2018. Safety profile of silver sulfadiazine-bFGF-loaded hydrogel for partial thickness burn wounds. *Cutaneous and ocular toxicology*, 37(3), pp.258-266. Doi: <https://doi.org/10.1080/15569527.2018.1442843> [IF:1.6]
10. Junejo, J.A., Gogoi, G., Islam, J., Rudrapal, M., Mondal, P., **Hazarika Hemanga**, and Zaman, K., 2018. Exploration of antioxidant, antidiabetic and hepatoprotective activity of *Diplazium esculentum*-A wild edible plant from North Eastern India. *Future Journal of Pharmaceutical Sciences*, 4(1), pp.93-101. Doi: <https://doi.org/10.1016/j.fjps.2017.10.005> [IF: 3.4]
11. Krishnatreyya, H., **Hazarika Hemanga**, Saha, A. and Chattopadhyay, P., 2018. Capsaicin, the primary constituent of pepper sprays and its pharmacological effects on mammalian ocular tissues. *European journal of pharmacology*, 819, pp.114-121. Doi: <https://doi.org/10.1016/j.ejphar.2017.11.042> [IF: 4.2]
12. **Hazarika Hemanga**, Tyagi, V., Krishnatreyya, H., Kishor, S., Karmakar, S., Bhattacharyya, D.R., Zaman, K. and Chattopadhyay, P., 2018. Toxicity of essential oils on *Aedes aegypti*: a vector of chikungunya and dengue fever. *International Journal of Mosquito Research*, 5(3), pp.51-57.
13. Tyagi, V., Patel, R., **Hazarika Hemanga**, Dey, P., Goswami, D. and Chattopadhyay, P., 2017. Chemical composition and bioefficacy for larvicidal and pupicidal activity of essential oils against two mosquito species. *International Journal of Mosquito Research*, 4(4), pp.112-118.
14. Singha, J., Chowdhury, D., **Hazarika Hemanga** and Krishnatreyya, H., 2018. Drug utilization studies on antibiotics in the department of medicine (in patient) of Gauhati medical college and hospital (gmch), Guwahati. *International Journal of Pharmacy Practice and Drug Research*, 8(1), pp.34-39.
15. **Hazarika Hemanga**, Boruah, S., Islam, J., Paul, A. and Zaman, M.K., 2020. Antimicrobial,

Mosquito Larvicidal and Repellent Activity of Essential Oils Isolated from Three Local Species of Ginger Grown in Upper Assam Region, India. *Current Trends in Pharmaceutical Research*, 7(1), pp.126-142.

- 16. Hazarika Hemanga**, Krishnatreyya, H., Laskar, M.A., Gogoi, P., Zaman, K. and Chattopadhyay, P., 2018. Herbal Mosquito Repellent Liposomal Formulations: A Mini Review. *landscape*, 23(9), pp.3319-3329.
- 17. Hazarika Hemanga**, Krishnatreyya, H., Bhattacharjee, B., Rynjah, D., Gogoi, D., Ahmed, A.B. and Zaman, K., 2023. Liposomal Drug Delivery in Malaria. In *Malarial Drug Delivery Systems: Advances in Treatment of Infectious Diseases*. Cham: Springer International Publishing. (pp. 161-185). Doi: https://doi.org/10.1007/978-3-031-15848-3_8
- 18.** Krishnatreyya, H., **Hazarika Hemanga**, Das, B.K., Gogoi, N., Ahmed, A.B., Zaman, K. (2023). Drug Delivery Options for Treatment of Ebola Infection. In: Shegokar, R., Pathak, Y. (eds) *Viral Drug Delivery Systems*. Springer, Cham. https://doi.org/10.1007/978-3-031-20537-8_8
- 19. Hazarika Hemanga**, Krishnatreyya, H., Chattopadhyay, P., Saha, A., Pathak, Y.V. and Zaman, M.K., 2020. Nanoemulsion Delivery of Herbal Products: Prospects and Challenges. *Nano Medicine and Nano Safety: Recent Trends and Clinical Evidences*, **Springer, Singapore**, pp.267-288. Doi: https://doi.org/10.1007/978-981-15-6255-6_11
- 20.** Islam, J., **Hazarika Hemanga**, Roy, P.K., Patowary, P., Chattopadhyay, P., Pathak, Y.V. and Zaman, K., 2021. Regulatory Perspectives and Concerns Related to Nanoparticle-Based Lung Delivery. In *Handbook of Lung Targeted Drug Delivery Systems* (pp. 591-609). CRC Press, **United States**. Doi: <https://doi.org/10.1201/9781003046547-43>

Membership of Professional bodies:

1. American Association of Pharmaceutical Scientists (AAPS), [2107 Wilson Blvd., Suite 200, Arlington, VA 22201, 01/01/2020 – Current] Membership ID: 264419
2. The Indian Science Congress Association (ISCA), [14, Dr. Biresw Guha St., Kolkata-700017, 24/06/2022 – Current], Life Membership ID: L41868
3. Society of Medical Arthropodology (SOMA), [Department of Zoology, Osmania University, Amberpet, Hyderabad, Telangana 500007, 15/07/2020 – Current], Lifetime member

Award, Fellowship & Recognition:

1. **DRDO Junior Research Fellowship Award**, Defence Research Laboratory (DRDO), Ministry of Defence, Govt. of India, Tezpur, Assam, India, Awarded on May, 2016
2. Received '**SOMA Young Scientist Award**', from Society of Medical Arthropodology (SOMA), for focused research of promising medico arthropodological significance, at the 15th International Conference of Medical Arthropodology organized by Dept. of Zoology, Osmania University, Hyderabad, Telangana State held on 12-14 December, 2022
3. Received the Best Research Paper Award (21st Nov. 2023) from the Director, Defence Research Laboratory, Tezpur, for the Res. paper entitled "**The fabrication and assessment of mosquito repellent cream for outdoor protection**" published in **Scientific Reports** (2022)
4. **Review Editor, Ethnopharmacology Section, *Frontiers in Pharmacology*** (October 2024 – Present). Appointed as a Review Editor for the *Ethnopharmacology* section of *Frontiers in Pharmacology*, contributing to the peer-review process by evaluating manuscripts, ensuring scientific rigor, and upholding publication standards in a leading international pharmacology journal.
5. **Book Editor**
Three-Volume Handbook Series (Forthcoming)
CRC Press | Taylor & Francis Group
(Expected publication: 2026)



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(Dr. Hemanga Hazarika)

Date: 08/04/2025