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Profile

1. NAME: Neeta Pathaw
2. CONTACT DETAILS (EMAIL): neetapathaw@gmail.com
3. QUALIFICATION: M.Sc., Ph.D., B.Ed.
4. CURRENT POSITION: Research Coordinator
5. SPECIALIZATION: Plant Molecular Biology
6. TEACHING EXPERIENCE: 4 years
7. RESEARCH EXPERIENCE: 5.5 years
8. UGC VIDWAN ID NO: 724380
9. RESEARCH GATE ID: Neeta Pathaw
10. GOOGLE SCHOLAR ID: =7qXN2xMAAAAJ
11. SCOPUS /WOS ID: 55995067400
12. ORCID ID: 0000-0002-7371-3250



13. HONOURS/AWARDS/SCHOLARSHIPS

- 1) Travel grant Award for the Poster presentation at the “15th Annual Meeting of Proteomics Society, India & International Conference on Integrated Proteomics: Applications in Food, Nutrition and Health” conducted by Proteomic Society of India & NIPGR, New Delhi, November 20-22, 2023
- 2) Dr. M. J. Thirumalachar Young Scientist Award – I, 2022, Awarded by Mycological Society of India
- 3) DBT-RA Fellowship for Post Doctoral Studies, 2019-2020
- 4) Cleared CSIR-UGC NET JRF, December, 2010.
- 5) Cleared the CSIR-UGC NET (Lecturership) December, 2009.

14. PUBLICATIONS (YEAR WISE)

YEAR

Journal (Details)

2026

- 1) Singh, K.O., Singh, K.K., Singh, N.B., Konthoujam, N., Das, B., Chanu, T.B., Thokchom, B., Nameirakpam, B., Rai, S., Pathaw, N. and Singh, O.S., 2026. Indigenous medicinal plant knowledge among the Meitei community of Salungpham village, Thoubal district, Manipur, India. *Trees, Forests and People*, p.101193.
- 2) Pathaw, N., Singh, K.O., Lamyamba, L., Rai, S., Chanu, T.B., Singh, O.S., Sharma, N. and Thorat, S., 2026. Comprehensive Metabolite Profiling and Enzyme Inhibitory Potential of *Psidium guajava* L. Hydro Alcoholic Extract: An In vitro and In Silico Approach. *Chemistry & Biodiversity*, 23(1), p.e02117.
- 3) Chaudhary, S.K., Kharlyngdoh, E., Singh, H.K., Mavani, A., Singh, O.S., Pathaw, N., Shukla, J.K., Somkuwar, B.G., Sharma, N., Mukherjee, P.K. and Bhardwaj, P.K., 2026. Capsaicin content in chillies (*Capsicum annuum* L., *Capsicum frutescens* L., *Capsicum chinense* Jacq.) of Northeast India by high performance thin layer chromatography (HPTLC). *Natural Product Research*, 40(8), pp.2113-2121.



Profile

- 2025 Bhupenchandra, I., Chongtham, S.K., Devi, A.G., Dutta, P., Sahoo, M.R., Mohanty, S., Kumar, S., Choudhary, A.K., Devi, E.L., Sinyorita, S. and Devi, S.H., 2025. Unlocking the potential of arbuscular mycorrhizal fungi: exploring role in plant growth promotion, nutrient uptake mechanisms, biotic stress alleviation, and sustaining agricultural production systems. *Journal of Plant Growth Regulation*, 44(12), pp.6802-6840.
- 2024 Das, B., Bhardwaj, P.K., Chaudhary, S.K., Pathaw, N., Singh, H.K., Tampha, S., Singh, K.K., Sharma, N. and Mukherjee, P.K., 2024. Bioeconomy and ethnopharmacology–Translational perspective and sustainability of the bioresources of northeast region of India. *Journal of Ethnopharmacology*, 330, p.118203.
- 2023 Devi, H.C., Devi, K.S., Sanabam, R., Pathaw, N., Devi, O.P., Chanu, N.T., Maibam, A., Chanu, W.T., Sanasam, J., Roy, S.S. and Devi, C.P., 2023. Simplified extraction protocol for plant tissues and reverse transcription RPA assay for quick and reliable diagnosis and its application in resistance screening of Chilli veinal mottle virus. *Crop Protection*, 170, p.106280.
- 2023 Sharma, S.K., Pathaw, N., Wangkhem, B., Jackson, K.S., Devi, K.S., Roy, S.S., Singh, A.R., Singh, R., Banerjee, A., Kumar, S. and Ningombam, A., 2023. Simple template-based reverse transcription-recombinase polymerase amplification assay for routine diagnosis of citrus tristeza virus. *Letters in Applied Microbiology*, 76(1), p.106280.
- 2022 1) Pathaw, N., Devi, K.S., Sapam, R., Sanasam, J., Monteshori, S., Phurailatpam, S., Devi, H.C., Chanu, W.T., Wangkhem, B. and Mangang, N.L., 2022. A comparative review on the anti-nutritional factors of herbal tea concoctions and their reduction strategies. *Frontiers in Nutrition*, 9, p.988964.
2) Devi, O.P., Sharma, S.K., Sanatombi, K., Devi, K.S., Pathaw, N., Roy, S.S., Chanu, N.T., Sanabam, R., Devi, H.C., Singh, A.R. and Baranwal, V.K., 2022. A simplified multiplex PCR assay for simultaneous detection of six viruses infecting diverse chilli species in India and its application in field diagnosis. *Pathogens*, 12(1), p.6.
- 2021 1) Pathaw, N., Gurung, A.B., Chrungoo, N.K., Bhattacharjee, A., Roy, S.S., Ansari, M.A. and Sharma, S.K., 2021. In silico molecular modelling, structural dynamics simulation and characterization of antifungal nature of β -glucosidase enzyme from *Sechium edule*. *Journal of Biomolecular Structure and Dynamics*, 39(12), pp.4501-4509.
2) Sharma, S.K., Gupta, O.P., Pathaw, N., Sharma, D., Maibam, A., Sharma, P., Sanasam, J., Karkute, S.G., Kumar, S. and Bhattacharjee, B., 2021. CRISPR-Cas-Led revolution in diagnosis and management of emerging plant viruses: New avenues toward food and nutritional security. *Frontiers in Nutrition*, 8, p.751512.
- 2017 Bhattacharjee, B., Pathaw, N., Chrungoo, N.K. and Bhattacharjee, A., 2017. Molecular modelling, dynamics simulation and characterization of antifungal chitinase from *Sechium edule*. *Gene*, 606, pp.39-46.
- 2013 Ghosh, A., Luis, A.S., Brás, J.L., Pathaw, N., Chrungoo, N.K., Fontes, C.M. and Goyal, A., 2013. Deciphering ligand specificity of a *Clostridium thermocellum* family 35 carbohydrate binding module (ct cbm35) for gluco- and galacto-substituted mannans and its calcium induced stability. *PloS one*, 8(12), p.e80415.
- 2020 Pathaw, N., 2020. "Study of Plant-Pathogen Interaction under Changing Climatic Conditions". *AgriCos e-Newsletter* 1(2):156-158
- 2020 Konjengbam, S. D, Pathaw, N and Tampakleima, C.W., 2020. "Application of Botanicals in Plant Diseases Management: A Brief Report" *AgriCos e-Newsletter* 1(3): 91-97, July (2020).
- 2020 Devi, H.C., Pathaw, N and Tampakleima, C.W., 2020. Article on "Importance of Detection and Identification of Viral Diseases in Plants". *AgriCos e-Newsletter* 1(3): 66-69, July (2020).



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YEAR	Book Chapter (Details)
2025	Metabolomics and transcriptomics approaches for discovery of bioactive compounds. Cambridge Scholars Publishing, United Kingdom. (2025) Edition under the theme“Innovations in Bioactive Compound Discovery”
2024	Pathaw, N., Sharma, S.K., Gupta, N., Singh, S., Sharma, D., Sharma, P., Nabi, S.U., Sanasam, J., Devi, K.S., Wangkhem, B. and Devi, O.P., 2024. Recent Advances in the Detection of Plant Viruses and Viroids in Field Crops. Diseases of Field Crops: Diagnostics and Management, pp.43-76.
2023	Susheel Kumar Sharma, Konjengbam Sarda Devi, Neeta Pathaw, Harvinder Kumar Singh, Shwet Kamal and Dharmesh Gupta. Thakur, M.P., Singh, R.P., Singh, H.K. and Mishra, K.K., 1967. Compendium of Mushroom Diseases. In International Conference on Mushroom Biology and Mushroom Products (ICMBMP8). pp (Vol. 330, p. 336). By: Indian Phytopathological Society.

15. ORAL/POSTER Presentation (YEAR WISE)

Sl	Name of the Conference	Name of the Paper Presented	National/ International	Mode of Presentation	Organized by	Dates
1	15th Annual Meeting of Proteomics Society, India & International Conference on Integrated Proteomics: Applications in Food, Nutrition And Health	LC-ESI-QTOF-MS/MS based metabolomics of <i>Phlogacanthus</i> species revealing its antioxidant and anti-inflammatory ability	International	Poster	Proteomic Society of India & NIPGR, New Delhi	20 th -22 nd , November 2023.
2	National Conference on Mycology and Mankind: Marching ahead in the new era” and 48th Annual Meeting of the Mycological Society of India	Identification and In Silico molecular characterization of a 26.5kDa Chitinase enzyme from seeds of <i>Sechium edule</i> (Jacq.) Swartz	National	Oral	ICAR NEH Region, Barapani and Mycological Society of India	8 th -10th March, 2022
3	Symposium on enhancing farm income through sustainable plant health	Identification and In Silico molecular characterization of a 32kDa enzyme from	National	Oral	ICAR Shillong, Meghalaya	6th-8th November, 2019.



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		Sechium edule (Jacq.) Swartz				
4	6th World Congress on Biotechnology"- Young Researchers Forum,	Purification and characterization of a 32 kD B-glucosidase (SeAFP32) having antifungal activity from seeds of Sechium edule (Jacq.) Swartz	International	Oral	Omics International, New Delhi	5 th -7 th October, 2015.
5	National seminar on Metabolomics- a new frontier in natural products research",	Isolation and Purification of an antifungal protein from seeds of Sechium edule	National	Oral	Department of Biotechnology and Bioinformatics, NEHU, Shillong, Meghalaya	23rd -24th May, 2014.
6	7 th annual convention of ABAP and international conference on plant biotechnology, molecular medicine and human health	Isolation and Purification of Chitinase enzyme from seeds of Sechium edule	International	Poster	Delhi University, New Delhi.	18 th 20th October, 2013.

16. Any Other Information (if any)

1. Pre-Conference Workshop on Plant / Agricultural Proteomics and Data Analysis" organized by NIPGR, New Delhi on November 18, 2023.
2. "Interactive workshop on Project Formulation and Report Writing", June 8th-10th 2016. Department of Botany, NEHU, Shillong, Meghalaya.
3. Workshop on "Mass spectrometry and its applications", 12th-14th March, 2013. SAIF, NEHU, Shillong-22, Meghalaya.
4. DBT sponsored training course on "Bioinformatics: A practical approach in genomics and proteomics", 26th -29th September, 2011. Bioinformatics Centre, NEHU, Shillong-22, Meghalaya.



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5. Workshop on “Basic principles, preparatory methods and biological application in transmission electron microscopy”, 22nd -25th March, 2011. SAIF, NEHU, Shillong-22, Meghalaya.
6. Short term course on “Intellectual Property Rights (IPR)”, 6th -7th September, 2010, UGC Academic Staff College, NEHU, Shillong-22, Meghalaya.
7. Presented a radio talk on “Influence of Environmental Pollution” in All India Radio, Imphal, September, 2019.
8. Wet Lab Coordinator at the training program on “Advances in Plant Biotechnology and Molecular Biology”, sponsored by DBT and ICAR-NASF and organized by ICAR research Complex for NEH Region, Manipur Centre, Imphal during 5th -11th March, 2019.