

## FACULTY PROFILE FORMAT

1. Full Name: Dr. Mahesh Pathak
2. Designation: Professor Entomology
3. Department/School: Entomology, School of Crop Protection
4. Official Email ID: [maheshpathak@rediffmail.com](mailto:maheshpathak@rediffmail.com),  
[maheshpathak@cau.ac.in](mailto:maheshpathak@cau.ac.in)
5. Profile Photo:
6. Area of Specialization: Insect Pest Management
7. Research Interests: Host Plant Resistance, Biological Control, Integrated Pest Management
8. Highest Educational Qualification:



Degree	Year	Subject	University/Institute
Ph.D.	2008	Plant Protection (Entomology)	Aligarh Muslim University, Aligarh, U.P., India

9. Professional Experience:

Position	Organization	Duration
Professor Entomology	School of Crop Protection College of Post Graduate Studies in Agricultural Sciences, Central Agricultural University (Imphal), Umiam, Meghalaya	Since 26th July, 2019
Senior Scientist & Head	Krishi Vigyan Kendra East Siang, College of Horticulture & Forestry, Central Agricultural University (Imphal), Pasighat, Arunachal Pradesh	8 <sup>th</sup> July, 2010 to 25 <sup>th</sup> July, 2019
Subject Matter Specialist Plant Protection	Krishi Vigyan Kendra Koderma, Jharkhand [Under ICAR-National Rice Research Institute (ICAR-NRRI), Cuttack, Odisha	10 <sup>th</sup> July, 2006 to 2nd July, 2010
Consultant Legumes Pathology	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Andhra Pradesh.	1 <sup>st</sup> July, 2005 to 30th June 2005
Senior Research Fellow Entomology	National Centre for Integrated Pest Management (NCIPM), Lal Bahadur Shastri Building, Indian Agricultural Research Institute (ICAR-IARI), New Delhi.	3 <sup>rd</sup> July 2000 to 31 <sup>st</sup> December 2004

10. Research Projects:

Title	Funding Agency	Budget (In Lakh's)	Duration	Status
Establishment of Crop Based Model IPM Villages for Promotion of Integrated Pest Management Technologies in NEH Region of India. (PI)	ICAR, New Delhi	60.0	3 years	Ongoing
Strategies for devising kairomone-based management of Fall Armyworm, <i>Spodoptera frugiperda</i> (J.E. Smith) with special reference to egg parasitoid, <i>Trichogramma pretiosum</i> (Riley) in Northeast India. (Co-PI)	ANRF, DST, GoI, New Delhi	38.02	3 years	Ongoing
Promotion of Pulses in NEH Region	ICAR, New Delhi	25.0	3 years	Ongoing
Validation and promotion of Integrated Pest Management in Rice and Horticultural crops in NEH region. (PI)	ICAR, New Delhi	21.2	3 years	Completed
Evaluation of NNI-1702 30% WG [NNI-1501 10% + Pymetrozine 20% WG] to control BPH/ WBPH in Rice. (PI)	Nichino India Pvt. Limited, Maharastra	7.8	3 years	Completed
Evaluation of Bio-efficacy and Phytotoxicity evaluation of fungicide Fosetyl Al 80% WP (Aliette 80%WP) in Cardamom. (Co-PI)	Bayer Crop Science Ltd. Maharashtra	12.72	3 years	Completed
TSP: Validation and Promotion of Integrated Pest Management in Rice and Vegetable crops in NEH region.	ICAR, New Delhi	5.0	3 years	Completed

11. Selected Publications:

S.No.	Author (s)	Title	Name of Journal	Volume	Page	Year
1.	Reddy, C. A., Pathak, M., Kumar, Y.B. Ningthoujam, K., Waseem, M. A.,	Field efficacy of new-generation insecticides and household residue mitigation techniques assessed by LC-MS/MS for safe	<i>Scientific Reports</i>	16	7214	2026

	Sahoo, B.K., Sorahia, D., Gogoi, J., Kumar, A.A. & Majumder, S.	tomato consumption				
2.	Reddy, C. A., <b>Pathak, M.</b> , Ningthoujam, K., Rajesh, T., Waseem, M.A., Sahoo, B.K., Chandra, P.K., Jeevana, K., Moirangthem, K., Talukdar, M. and Sorahia, S.	Influence of climatic factors on pest–predator dynamics in tomato ( <i>Solanum lycopersicum</i> L.) agroecosystem of Meghalaya, India	<i>Tropical Agriculture (Trinidad)</i>	103 (1)	96-109	2026
3.	Ningthoujam, K., Moirangthem, Z., <b>Pathak, M.</b> , Gogoi, J. and Sorokhaibam, M.	Host suitability and parasitism of <i>Trichogramma pretiosum</i> on <i>Galleria melonella</i> and <i>Corcyra cephalonica</i> for the management of fall armyworm.	<i>Scientific Reports</i>	15	34154	2025
4.	Chada A.R., <b>Mahesh P.</b> , Yengkhom B.K., Ningthoujam, K., Jyotim G. Abhinay A.K., Bimal K.S. Sharad S., Pradeep K.C. and Sujan M.	Residue dynamics and food safety evaluation of novel insecticides on tomato fruit.	<i>Environmental Monitoring and Assessment</i>	197	690	2025
5.	Sahoo, B.K., <b>Pathak, M.</b> , Patra, S., Waseem, M.A., Ningthoujam, K., Dutta, P., Patidar, R.K., Kalita, H., Haritha, S., Raj, A., Boruah, S., Sarmah, K., Ikram, M., Hnialum, M. and Ramya, A.R.	Compatibility and synergistic effects of insecticides with <i>Metarhizium anisopliae</i> for sustainable management of <i>Nephotettix virescens</i> in north eastern	<i>Journal of Animal and plant Science</i>	35(4)	-	2025
6.	Ningthoujam, K., Rethinam, H., Ramappa, K., <b>Pathak, M.</b> , & Suting, E. G.	Diversity and distribution of Termite fauna in mid hill-range of Meghalaya (Eastern Himalayan region), India.	<i>International Journal of Tropical Insect Science</i>	44 (2)	873-884	2024
7.	Patra Sandip, Rai Sabina, Chakraborty Debasish, Sangma Rumki HC, Majumder Sutanu, Kuotsu Khrieketou, Chakraborty Mahasweta, Baiswar Pankaj, Singh Binay K, Roy Aniruddha, Singh Nongmaithem Uttam, Kadam	Impact of Weather Variables on Radish Insect Pests in the Eastern Himalayas and Organic Management Strategies.	<i>Sustainability</i>	16 (7), 2946	(DOI: <a href="https://doi.org/10.3390/su16072946">10.3390/su16072946</a> )	2024

	Veronica, <b>Pathak Mahesh</b> and Devi Tombisana RK.					
8.	Lyngkhoi P.R., Ningthoujam, K., <b>Pathak, M.</b> , Sailo N.	Screening of Potato Varieties for Resistance to Potato Tuber Moth, <i>Phthorimaea operculella</i> (Zeller) in Meghalaya, India.	<i>Potato Research</i>	<a href="https://doi.org/10.1007/s11540-023-09685-x">https://doi.org/10.1007/s11540-023-09685-x</a>	1-16	2023
9.	Kumari Arti, Dutta Pranab, <b>Pathak Mahesh</b> and Thakuria Dwipendra.	Green synthesis of copper nanoparticles mediating <i>Curcuma caesia</i> Roxb. Leaf extract and assessment of its antifungal activity against <i>Colletotrichum capsici</i> .	<i>AMA-Agricultural Mechanization in Asia Africa and Latin America</i>	54 (07)	14625-14651.	2023
10.	Pandey PK, Samanta R, Yadav RNS, Singh AK, Singh S, <b>Pathak M.</b> 2023.	Plant growth promotion and antimicrobial activity of bud endophyte <i>Bacillus pumilus</i> PM2 associated with ethno medicinal plant <i>Spilanthes acmella</i> (L.) L. from biodiversity hotspot of Arunachal Pradesh, India.	<i>AMA-Agricultural Mechanization in Asia Africa and Latin America</i>	54 (10)	16117-16134	2023
11.	Manchikatla, S., Ningthoujam, K., <b>Pathak, M.</b> , & Singh, A. R.	Baseline susceptibility of cabbage butterfly, <i>Pieris brassicae</i> (Linnaeus) (Lepidoptera: Pieridae) to <i>Bacillus thuringiensis</i> (Berliner) Cry toxins in Meghalaya.	<i>Egyptian Journal of Biological Pest Control</i>	33 (1)	13	2023
12.	Kadam V, Patidar RK, Thangjam R, <b>Pathak M</b> and Mukhopadhyay A.K.	Management of <i>Aphelenchoides besseyi</i> infecting Polianthes tuberosa in West Bengal, India.	<i>Journal of Environmental Biology</i>	41	1774-1780	2020
13.	Hussain Shah Mustahid, Sen Debashish, Riba Toge, <b>Pathak Mahesh</b> and Singh Ranjay K.	Fishing in the Siang belt of Arunachal Pradesh, India: Learning Traditional Ecological Knowledge of Adi and Galo communities.	<i>Indian Journal of Traditional Knowledge</i>	15 (4)	685-692	2016

## 12. Course taught:

Insect Anatomy and Physiology (ENT 502); Insect Taxonomy (ENT 503); Insect Ecology (Insect 504); Biological Control of Insect Pests and Weeds ENT (505); Pest of Field Crops (ENT 509); Insect Phylogeny and Systematics (ENT 601); Insect Physiology and Nutrition (ENT 602); Bio-Inputs for Pest Management (ENT 605); Insect Toxicology and Residues (ENT-606)

13. Student guidance: as Major Advisor

- a. M.Sc. Guided: 10 completed; 4 ongoing
- b. **Ph.D. Guided:** 01 completed, 4 ongoing

14. Workshop/Training/conferences organized:

- Workshop on “Biocontrol of crop pests & invasive and utilization of insects as food in North East Region of India”. In collaboration with ICAR-NBAIR, Bengaluru, 6-7<sup>th</sup> March, 2020.
- Awareness cum input distribution programme on “Promotion and Validation of IPM in Rice and Vegetable crops” in East Khasi Hills, West Jaintia Hills and Ribhoi district of Meghalaya during year 2020 to 2026.
- Awareness cum input distribution programme on “Identification and management of insect pests and diseases of Rice and Horticultural crops” in East Khasi Hills, West Jaintia Hills and Ribhoi district of Meghalaya during year 2020 to 2026.
- Awareness cum input distribution programme on “Method and Application of Biopesticides” at Mairang village, West Khasi Hills district, Meghalaya on 16<sup>th</sup> October, 2020.
- One day Seminar cum Farmers Scientist Interaction programme on Bio Intensive Pest Management in collaboration with Ri Lajong Farmers Producer Organisation at Nongpoh, Ribhoi on 13<sup>th</sup> June, 2023.
- Training cum awareness on Role of ICT in Integrated Pest Management, 17<sup>th</sup> October, 2023, at village Nalapara, Nongpoh, Ri bhoi.
- Training cum input distribution programme for Rabi 2022-23, 13<sup>th</sup> December, 2023, village Thadnongiaiw, Ri bhoi.
- Awareness cum input distribution programme on IPM in Rice during *Kharif* 2025 in Ribhoi district of Meghalaya.
- Awareness cum input distribution programme on IPM in Vegetable Crops during *Rabi* 2025-26 in Ribhoi district of Meghalaya.
- Awareness cum input distribution programme on IPM in Vegetable Crops during *Rabi* 2025-26 in Ribhoi district of Meghalaya.
- Awareness cum input distribution programme on IPM in Pulse Crops during *Rabi* 2025-26 in Ribhoi district of Meghalaya.

15. Google Scholar/ORCID/Research Gate/Scopus ID:

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