PROFORMA OF FACULTY PROFILE

Name	: Dr. IMTINARO.L
Current designation	: Professor
E-mail	: imtinaro@nagalanduniversity.ac.in
Contact address	: Dept. of Entomology, SAS:NU, Medziphema
Contact No.	: 9436006730
Date of joining the institute	: 22/07/2003

Education

Examination	Year	Institute	Subjects
Ph.D.	2012	Nagaland University	Entomology
NET	2001	Indian Council of Agricultural	Entomology
		Research, New Delhi	
M.Sc.(Ag.)	2001	Nagaland University	Entomology
B.Sc.(Ag.)	1999	Nagaland University	Agriculture

Academic experience

Position Held	Duration	Place of work	Institution
Professor	June 2023 till date	Nagaland University	School of Agricultural
			Sciences
Associate	July 2017- June 2023	Nagaland University	School of Agricultural
Professor			Sciences
Assistant	July 2003- July 2017	Nagaland University	School of Agricultural
Professor/Lecturer			Sciences

Research area/field of Specialization: Productive Entomology

Teaching areas: Insect Morphology, Insect Ecology and Principles of Pest Management, Vertebrate Pests Management & Experiential Learning in Sericulture.

Publications

- Jesonkere Sutnga, H. Shila Devi, **Imtinaro.L**, Damitre Lytan, Waluniba, Susanta Banik and Sabbithi Pavan. 2024. Population dynamics of cabbage aphid, Brevicoryne brassicae L. on five brassicae species viz. cabbage, cauliflower, broccoli, Chinese cabbage and radish. *Biological Forum- An International Journal*. 16(1):47-52.
- Imnuksungla Lemtor, **Imtinaro.L** and Rokozeno. 2023. Evaluation of some ecofriendly biorationals against aphids, *Nasonovia ribisnigri* in Lettuce. *Environment and Ecology*, 41(4C):2885-2889.
- Kenongozo Zao, **Imtinaro.L** and Rokozeno. 2023. Evaluation of some eco-friendly biorationals against aphids, *Nasonovia ribisnigri* in Lettuce. *Environment and Ecology*, 41(4C):2885-2889.
- Rongsentula Longchar, Pankaj Neog, Waluniba and Imtinaro L. 2023. Insect pest complex on cauliflower (*Brassica oleracea* var botrytis L.) and their correlation with weather parameters in Medziphema, Nagaland. *Environment and Ecology*, 41(3C):1989-1994.



- Khrieketou Kuotsu, Pankaj Neog, L Imtinaro and Rumki H. Ch. Sangma. 2023. Screening of ricebean [*Vigna umbellate* (Thunb.) Ohwi and Ohashi] cultivars against pulse beetle [*Callosobruchus chinensis*(L)]. *Legume Research- An International Journal*, 10.18805/LR.
- Otto S Awomi, **Imtinaro L**, Pankaj Neog and Dametre Lytan. 2023. Incidence of Encarsia guadeloupae in spiralling whitefly on king chilli and its correlation with abiotic factors. *The Pharma Innovation*, **12**(5): 1063-1064.
- Imnuksungla Lemtor, **Imtinaro** L, Rokozeno and Hijam Shila Devi. 2023. Efficacy of different trap crops against Serpentine leaf miner in tomato (*Solanum lycopersicum L.*). *International Journal of Innovative Horticulture*. **12**(1):122-125.
- Rhodesh Salam, Hijam Shila Devi, Yengkhom Suraj Singh, **Imtinaro L**, H. Meronbala devi and Waluniba. 2023. Incidence of major insect pests of tomato influenced by environmental factors in Western Manipur. *International Journal of Innovative Horticulture*. **12**(1):109-113.
- Biplove Bala, Pankaj Neog and Imtinaro L. 2023. Comparative efficacy of some indigeneous plant materials as toxicant against pulse beetle, *Callosobruchus chinensis* (L). *Scientist*, **4**(4):146-163.
- Otto S Awomi, **Imtinaro L**, Pankaj Neog and Dametre Lytan. 2023. Incidence of spiralling whitefly, *Aleurodicus disperses* Russell in King Chilli, *Capsicum chinense* Jacq. and its correlation with abiotic factors. *The Pharma Innovation*, **12**(4): 1606-1608.
- Rhodesh Salam, H. Shila Devi, Pankaj Neog, L Imtinaro, Y. Suraj Singh, H. Meronbala Devi and W. Ramdas Singh. 2023. Efficacy of insecticides against major insects of tomato in Manipur. *International Journal of Environment and Climate Change*, **13** (8): 911-920.
- W. Shangkok Konyak, Hijam Shila Devi, A.K. Sahu, Yengkhom Suraj Singh, Hijam Meronbala Devi and **Imtinaro L**. 2023. Diversity and population dynamics of fruit fly in bottle gourd and its correlation with abiotic factors in Nagaland. *Biological ForumAn International Journal*, **15**(3): 379-385.
- Nokchensaba Kichu, L Imtinaro, Pankaj Neog and Limasunep Ozukum. 2022. Bioassay on toxicity of plant extracts against *Aphis craccivora* Koch (Hemiptera: Aphididae) in French bean (*Phaseolus vulgaris* L.). *International Journal of Environment and climate change*, 12(12):1216-1221.
- Nokchensaba Kichu, **Imtinaro L**, Pankaj Neog, Khrieketou Kuotsu and Kitila Walling. 2022. Seasonal incidence of major sucking pests of French bean (*Phaseolus vulgaris* L.). *The Pharma Innovation*, **11**(12): 1150-1154.
- A Vindhya, Pankaj Neog, **Imtinaro** L, Susanta Banik and B Malini Sharma. 2022. Efficacy of plant products and vegetable oils against *Callosobruchus chinensis* (L.) on stored chickpea. *The Pharma Innovation*, **11**(5): 1497-1504.
- Andrew Lalthlamuana, K. Lalruatsangi and **Imtinaro** L. 2022. Screening of some local upland rice cultivars against major insect pests of rice in Nagaland. *Environment and Ecology*, **40** (2):258-263.
- Yoodarimiki Shylla, Pankaj Neog and Imtinaro L. 2019. Screening of soybean (*Glycine max* L. Merril) genotypes for resistance against major insect pests. *Indian Journal of Pure & Applied Bioscience*, 7 (5):451-457.
- P. Sakotsungba Longchar, **Imtinaro.L**., Pankaj Neog, I. Yimjenjang Longkumer and Abhinandan Singh. 2019. Field evaluations of Novel insecticides against soybean stem fly, *Melanagromyza sojae* and leaf webber, *Anarsia ephippas* in Nagaland. *Environment and Ecology*, **37** (1):114-119.

- P. Sakotsungba Longchar, Imtinaro.L., Pankaj Neog and Yimjenjang Longkumer. 2019. Field evaluation of novel insecticides against *Mylabris phalerata* in Nagaland. *Indian Journal of Hill Farming*, **32** (1):157-161.
- S. Shabana, **Imtinaro.L** and Pankaj Neog. 2018. Pest complex and population dynamics of major insect pests in soybean. *Indian Journal of Entomology*,**80** (3): 1204-1206.
- S. Shabana, Imtinaro.L and Pankaj Neog. 2018. Evaluation of insecticides against insect pests of soybean. *Indian Journal of Entomology*,**80** (3): 1080-1083.
- P. Sakotsungba Longchar, **Imtinaro.L**., Pankaj Neog and Yimjenjang Longkumer. 2018. Evaluation of Novel insecticides against Spodoptera litura in soybean (Glycine max L. Merill). *Indian Journal of Pure & Applied Bioscience*, **6** (2):1129-1133.
- Yanger I. Kichu, Imtinaro.L and Pankaj Neog. 2017. Effect of cultivars and sowing dates on rice leaf folder in upland rice. *Indian Journal of Entomology*, **79** (2):225-226.
- Emelyne Lalmawipuh, Pankaj Neog and Imtinaro.L. 2017. Evaluation of some insecticides against major insect pests of okra (Abelmoschus esculentus L. Moench). *Indian Journal of Entomology*, **79** (4):525-534.
- Waluniba, M. Alemla Ao, H.K. Singh, Pankaj Neog and Imtinaro.L. 2017. Effect of planting dates and varieties on the incidence of cabbage butterfly (Pieris brassicae) in Nagaland. *Indian Journal of Entomology*, 79 (3):278-283.
- Yanger I. Kichu, **Imtinaro.L** and Pankaj Neog. 2015. Incidence of rice stem borer at different sowing date and cultivars in upland rice field. *Nagaland University Research Journal*, **8**:112-119.
- Yanger I. Kichu, **Imtinaro.L** and Pankaj Neog. 2015. Effect of date of sowing and cultivars on rice ear head bug infestation in upland rice. *Nagaland University Research Journal*, **8**:120-126.
- Nokchensaba Kichu, **Imtinaro.L** and Pankaj Neog. 2015. Influence of host plants on rearing performance and cocoon characters of eri silkworm, Samia Cynthia ricini Boisduval. *Indian Journal of Entomology*, **77** (1):88-91.
- Zarenthung N. Mozhui, **Imtinaro.L** and M. Aleminla Ao. 2014. Impact of different substrata on the ovipositional behavior of eri silkworm, Samia Cynthia ricini Boisduval. *Nagaland University Research Journal*, 7:193-202.
- A. Sungjemkala Lemtur and **Imtinaro.L**. 2014. Studies on incidence of insect pests of castor in Nagaland. National Symposium on Entomology as a Science and IPM as a Technology- the way forward held on November 14-15, 2014 at College of Horticulture and Forestry, Central Agricultural University, Pasighat-791002, Arunachal Pradesh.
- Imtinaro.L, D. P. Chaturvedi and M. Alemla Ao. 2013. Effect of cultivars of castor on the development of eri silkworm, Philosamia ricini Hutt. *Nagaland University Research Journal*, 6:97-105. •
- Imtinaro.L, D. P. Chaturvedi and M. Alemla Ao. 2013. Biology of eri silkworm, Philosamia ricini Hutt. On castor during summer and winter seasons. Nagaland University Research Journal, 6:93-96. ●
- Malsawmzuali, Imtinaro.L, M. Alemla Ao and Pankaj Neog. 2013. Ecofriendly pest management against brinjal shoot and fruit borer, Leucinodes orbonalis Guenee. *Indian Journal of Entomology*, **75** (4):320-324.
- Beso Chang, **Imtinaro.L** and Pankaj Neog. 2012. Effect of ovipositional substrata on egg recovery and biochemical aspects of eri silkworm, Samia Cynthia ricini (Boisduval). *Indian Journal of Entomology*, **74** (4):398-399.

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- Imtinaro.L, D.P. Chaturvedi and M. Alemla Ao. 2012. Studies on the consumption of eri silkworm, Philosamia ricini Hutt. As food in Nagaland. *International Journal of Bioresource and stress management*, 3 (4):455-458.
- Temjentoshi Jamir, Imtinaro.L ,Pankaj Neog and M. Alemla Ao. 2009. Influence of dates of planting and cultivars on the infestation of shoot borer, Conogethes punctiferalis (Guenee) on ginger. National Symposium on Spices and Aromatic crops (SYMSAC-V) held on 30-31 October, 2009, pp.140-151. •
- Imtinaro.L. 2006. Economics of rearing mulberry silkworm, Bombyx mori L. National Seminar on problems and prospects of Agricutural Marketing with special reference to North East Hill Region of India held on 11-13 October, 2006 at Department of Agricultural Economics, SASRD, Nagaland University, Medziphema Campus, Nagaland.
- Imtinaro.L 2005. Role of sericulture in socio- economic development. Seminar on Economic Development in Nagaland prospects and constraints held on 3-4 December, 2005, organized by Nagaland University Teaching Association, pp.145-150.
- Imtinaro.L, M. Aleminla Ao and D.P. Chaturvedi. 2005. Performance of eri silkworm Philosamia ricini Hutt. On some secondary host plants in Nagaland. Workshop on Strategies for non- mulberry germplasm maintenance held on 10-11 March, 2005, organized by Central Muga Eri Research & Training Institute, Central Silk Board, Ministry of Textiles, Govt. of India, Lahdoigarh, Jorhat, Assam. pp. 156-160.
- Imtinaro.L, and J.N. Khound. 2004. Rearing performance of eri silkworm Philosamia ricini Hutt. On four host plants. Horticulture for Sustainable Income and Environmental Protection. Vol. 2, Advances in Vegetables, Spices, Plantation Crops and Medicinal and Aromatic Plants. pp. 694-699.

ABSTRACTS:

• P. Maheswara Reddy, **Imtinaro L**, and C.S. Maiti. 2023. Taxonomic studies of Lepidopteran fruit borers associated with litchi from Nagaland, India. International Conference on Plant Health Management ICPHM 2023- Innovation and Sustainablility, 15th-18th November 2023, at ICAR- National Bureau of Plant Genetic Resources- regional Station Rajendranagar, Hyderabad.

• P. Maheswara Reddy, **Imtinaro L**, M. Shankara Murthy and C.S. Maiti. 2023. Morphological and genital studies on litchi shoot and fruit borer, *Conopomorpha sinensis* Bradley (Lepidoptera: Gracillariidae) from Nagaland, India. Animal Taxonomy Summit, 1-3 July, 2023. Zoological Survey of India, Ministry of Environment, Forest and Climate Change, Government of India.

• Otto S. Awomi, **Imtinaro.L**, Pankaj Neog, and Maongkar T. Changkiri. 2017. Efficacy of different bio-pesticides against the population of cabbage head borer. National Seminar on Crop Production: Current Trend and Future Perspective held on 16-18 November, 2017 at Nagaland University, SASRD, Medziphema Campus, Nagaland.

• Lothungbeni Murry, **Imtinaro.L** and Pankaj Neog. 2017. Screening of some soybean (Glycine max L. Merril) genotypes for resistance against some major insect pests. National Seminar on Crop Production: Current Trend and Future Perspective held on 16-18 November, 2017 at Nagaland University, SASRD, Medziphema Campus, Nagaland.

• Otto S. Awomi, **Imtinaro.L** and Pankaj Neog. 2017. Efficacy of some bio-pesticides against tobacco caterpillar, Spodoptera litura Fab. in cabbage. National Seminar on Crop Production: Current Trend and Future Perspective held on 16-18 November, 2017 at Nagaland University, SASRD, Medziphema Campus, Nagaland.

• Lalrinzuala, Pankaj Neog, **Imtinaro.L** and J. Akato Chishi. 2017. Evaluation of some insecticides against shoot and fruit borer, Leucinodes orbonalis Guenee in Brinjal. National Seminar on Crop Production: Current Trend and Future Perspective held on 16-18 November, 2017 at Nagaland University, SASRD, Medziphema Campus, Nagaland.

Book Chapters/Book

- Kigwe Seyie, M. Tseikha and **Imtinaro.L** 2006. Potential of beekeeping in North East Region. North East- Emerging Horizons in Agri Business, pp.345-351.
- Imtinaro.L & Pankaj Neog, 2016: Major insect pests of rice in Nagaland and their management. Agricultural Technology for Sustaining Rural Growth. Biotech Books, New Delhi, p. 225-244.
- Subha Ganguly, Pankaj Neog, Moloya Gogoi, Premila L. Bordoloi and **Imtinaro.L.** 2018. Edible Insects as Sources of Novel Bioactive Compounds. Recent Research Trends in Veterinary Sciences and Animal Husbandry. AkiNik Publications. P. 55-69.
- Pankaj Neog, **Imtinaro.L** and C.S.Maiti. 2023. Insect Pests of Important Fruits Crops in Nagaland. Modern Plant Biotechnology, Risks & Implications in Agriculture. Mahima Research Foundation & Social Welfare, 194, Karaundi, Banaras Hindu University, Varanasi. Pp. 19-28.
- Hijam Shila Devi, **Imtinaro L**, Susanta Banik, Hijam Meronbala Devi, Laishram Hemanta, W Ramdas Singh and Arshdeep Kaur. Recent Advances in Agricultural sciences and Technology. Dilpreet Publishing House, Ariana Publishers & distributors, New Delhi. Pp. 403-410.
- Rokozeno, **Imtinaro L**, Waluniba and Hijam Shila Devi. 2023. Insects as an alternative feed for poultry. Recent Advances in Agricultural sciences and Technology. Dilpreet Publishing House, Ariana Publishers & distributors, New Delhi. Pp. 1379-1384.
- Imtinaro L, Rokozeno, Waluniba and Hijam Shila Devi. 2023. Entomophagy- Why you should eat insects? Recent Advances in Agricultural sciences and Technology. Dilpreet Publishing House, Ariana Publishers & distributors, New Delhi. Pp. 1622-1628.

Other publication

1. Imtinaro.L and A.K. Singh, 2014: Sericulture: It's Potential in India. Indian Farmers' Digest, G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, p. 34-37. 2. Otto S Awomi and Imtinaro.L, 2015: Emtomophagy. Hill Agri. SASRD, Nagaland University, Medziphema, p. 42-46.

3. Maongkar T. Changkiri and **Imtinaro.L**, 2015: Impact of climate change on insects. Hill Agri. SASRD, Nagaland University, Medziphema, p. 55-60.

4. **Imtinaro.** L and Pankaj Neog, 2016: Insect Pest Management of some major crops in jhum field. Sustainable jhum farming for conservation of natural resources and food security. KVK, ICAR Research Complex for NEH Region. Longleng-798625, Nagaland, p. 118-125.

5. Pankaj Neog and **Imtinaro.L**, 2016: Insect Pest Management of important fruit crops in Nagaland. Sustainable jhum farming for conservation of natural resources and food security. KVK, ICAR Research Complex for NEH Region. Longleng-798625, Nagaland, p. 126-136.

6. **Imtinaro.L** and J.Akato Chishi, 2016: Practical Manual on Insect morphology, systematic & beneficial insects for under graduate students published by Department of Entomology, SASRD, NU, Medziphema, funded by ICAR, New Delhi.

7. **Imtinaro.L**, H.K. Singh, Pankaj Neog and J.Akato Chishi, 2016: Practical Manual on Insect ecology and principles of pest management for under graduate students published by Department of Entomology, SASRD, NU, Medziphema, funded by ICAR, New Delhi.

8. Pankaj Neog, **Imtinaro.L** and J. Akato Chishi, 2017: Practical Manual on Pests of Horticultural crops and their management for under graduate students published by Department of Entomology, SASRD, NU, Medziphema, funded by ICAR, New Delhi.

9. Imtinaro.L, Pankaj Neoj and J. Akato Chishi, 2014: Practical Manual on Experiential Learning Programme on Sericulture for under graduate students published by Department of Entomology, SASRD, NU, Medziphema, funded by ICAR, New Delhi.

10. H.K. Singh, J. Akato Chishi, **Imtinaro.L** and Pankaj Neog, 2014: Practical Manual on Experiential Learning Programme on Apiculture for under graduate students published by Department of Entomology, SASRD, NU, Medziphema, funded by ICAR, New Delhi.

Handling of research / development project / consultancy Title of project Funding agency Duration Completed / on – going

- State government sponsored project entitled "Impact of water conservation practices on pigeon pea and their effect on soil arthropods". (As Co-PI) Sponsored by Directorate of Science and Technology, Govt. of Nagaland. Rs.3,11,000 (2017-19) – COMPLETED
- 2. State government sponsored project entitled "Screening of different local cultivars of rice against major insect pests". (As PI) Sponsored by Directorate of Science and Technology, Govt. of Nagaland. Rs.1, 00,000 (2020) COMPLETED
- 3. Need based testing trials under AICRP on Soybean was carried out from 2015-16, 2016-17& 2017-18.

SI.	Topic of thesis	Name of student	Degree	Year of
No.				award
1	Host range of spiraling whitefly, Aleurodicus disperses Russell and its eco- friendly management in king chilli (Capsicum chinense Jaqc.)	Mr. Otto S Awomi	Ph.D	2022
2	Biorational management against sucking pests of French bean (Phaseolus vulgaris)		Ph.D	2022
3	Seasonal incidence of major insect pests and screening of local maize (Zea mays L.) cultivars	Ms. Martha Chakruno	Ph.D	Submitted Thesis

Research guidance

4			DI D	
4	Screening of soybean [Glycine max (L)Merrill] genotypes for resistance against major insect-pests and evaluation of morphological and biochemical traits of soybean genotypes	Mr. Mayanglambam Somorjit Singh	Ph.D	Continuing
5	Impact of insect pests and pollinators in linseed (<i>Linum usitatissimum</i> L.)	Ms. Imlilemla Amlari	Ph.D	Continuing
6	Study on life cycle of litchi fruit borer(s) and their management	Reddy	Ph.D	Submitted Thesis
7	Morpho-phenological characteristics and DNA barcoding of coleopteran pest of litchi (<i>Litchi</i> <i>chinensis</i> Sonn.) and its management	Ms. Nilotoli Zhimo	Ph.D	Continuing
8	Yet to decide	Mr. Rupam Das	Ph.D	Continuing
9	Effect of dates of planting and ginger cultivars on the infestation of ginger shoot borer, Dichocrocis punctiferalis	Mr. Temjentoshi Jamir	M.Sc.(Ag.)	2008
10	Effect of substrata on ovipositional behavior and some aspect of biochemical content of eri silkworm, Samia Cynthia ricini (Boisduval)	Mr. Beso Chang	M.Sc.(Ag.)	2011
11	Eco- friendly pest management against shoot and fruit borer Leucinodes orbonalis Guenee in brinjal	Ms. Malsawmzuali	M.Sc.(Ag.)	2012
12	Impact of different substrata on the ovipositional behavior of eri silkworm, Samia Cynthia ricini (Boisduval) in different seasons	Mr. Zarenthung N. Mozhui	M.Sc.(Ag.)	2013
13	Influence of different host plants on rearing performance and cocoon characters of eri silkworm Samia Cynthia ricini Boisduval	Mr. Nokchensaba Kichu	M.Sc.(Ag.)	2014

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	(<i>Brassica oleracea</i> var. italic L.)			
25	Evaluation of different trap crops for the management of tomato (<i>Lycopersicon esculentum</i> M.) pests	Ms. Imnuksungla Lemtor	M.Sc.(Ag.)	2021
26	Evaluation of different trap crops for the management of chilli (<i>Capsicum annum</i> L.)	Ms. Bonikali V Awomi	M.Sc.(Ag.)	2022
27	Efficacy of some bio- pesticides against the insect pests in black gram (<i>Vigna mungo</i> L.)	Mr. Vangam Raghavendra Reddy	M.Sc.(Ag.)	2022
28	Ecofriendly management of major insect pests in mustard (<i>Brassica juncea</i> L.)	Mr. H Hithono Sumi	M.Sc.(Ag.)	2023
29	Screening of maize cultivars against maize weevil (Sitophilus zeamais M.) and evaluation of some indigenous storage structures	Mr. Meyichuba	M.Sc.(Ag.)	2023

Seminar / Conference attended

1. Workshop on Strategies for non- mulberry germplasm maintenance organized by CMER & TI, Central Silk Board, Lahdoigarh: Jorhat, Assam held on 10th – 11th March, 2005.

2. National Workshop on preparation of Detail Project Report (DPR) in Horticulture, organized by National Institute of Agricultural Extension Management (MANAGE), Hyderabad, A.P. India, held on 9th to 10th May 2012 at CIH, Medziphema.

3. National Symposium on 'Entomology as a Science and IPM as a Technology- The way Forward' held at the College of Hortculture and Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh during 14th 15th November, 2014.

4. 46th Annual Group Meeting of AICRP on Soybean, University of Agricultural Sciences, Dharwad from 5th - 7 th April, 2016.

5. 47th Annual Group Meeting of AICRP on soybean, GB Pant University of Agriculture and Technology, Uttarakhand from 2nd -4 th May, 2017.

6. As rapporteur at National Seminar on crop Protection: Current Trends and Future Perspective held at SASRD, Nagaland University, Medziphema Campus during 16th to 18th November, 2017.

7. Co- chairing the Technical Session ENT-V at National Seminar on crop Protection: Current Trends and Future Perspective held at SASRD, Nagaland University, Medziphema Campus during 16th to 18th November, 2017

8. International Conference on Climate Change, Biodiversity and Sustainable Agriculture held during 13th – 16th December, 2018 at Jorhat, Assam, India.

9. International Conference on Natural Farming for Revitalizing Environment and Resilient Agriculture held during $17^{\text{th}} - 19^{\text{th}}$ March 2023 at College of Agriculture, Iroisemba, Imphal, Manipur.

Dr. IMTINARO.L