

Curriculum-Vitae of Bireswar Sinha

Name : BIRESWAR SINHA
Father : GOPESWAR SINHA
Current Designation : PROFESSOR
Date of joining : 07/11/2023
Permanent address : BAIDYARDIGHI, BISHALGARH
SEPAHIJALA, TRIPURA-799102



Communication details :
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SCHOOL OF AGRICULTURAL SCIENCES
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Education:

Ph.D : Bidhan Chandra Krishi Viswavidyalaya(2004-2009)

M.Sc (Agriculture) : Bidhan Chandra Krishi Viswavidyalaya(2002-2004)

B.Sc (Agriculture) : Central Agricultural University, Imphal(1998-2002)

Job experience : Agril. Officer, Govt., of Tripura
Assistant Professor, COA, CAU, Imphal
Associate Professor, COA, CAU, Imphal
Professor, SAS, NU-Till date.

Research Interest : Exploring microbes for sustainable disease management including Plant Virus

Awards

- 1.1st CAU Best Teacher Award (2018-19)
2. Best Oral Presentation (technical Session 3) at 4th International Conference on Global approaches in natural resource management for climate smart agriculture(GNRSA-2020) during pandemic era of covid -19, organized by ATDS at Shobhit University, Meerut(26-28th Feb., 2021).
3. Best Oral presentation (Technical session 2) at National Conference on Priorities in crop protection for sustainable Agriculture(16th to 18th march 2021), COA, CAU, Imphal.
4. Best Oral Presentation on Characterization of the Trichoderma spp. Isolated from diverse region of North East and its mass production at IPS-NEZ National Symposium 15/08/2019.
5. Extension Development Award by India Society of Horti., Res., and Development during 10/10/2019.
6. Fellow of Indian Phytopathological Society 2023, IARI, New Delhi.

A. Publication:

Research Papers

Publication with Impact factor:

1. Deciphering Growth Abilities of *Fusarium oxysporum* f. sp. *pisii* under Variable Temperature, pH and Nitrogen First Author/Corresponding author /One of two authors, *Frontier in Microbiology*, 14, 1228442, 2023, <https://doi.org/10.3389/fmicb.2023.1228442>. (Corresponding author) (ID-F101, ISSN-1664-302X, Impact factor- 5.6).
2. Evaluation of Indian Mustard Genotypes for White Rust Resistance Using BjuWRR1 Gene and Their Phenotypic Performance. *Agronomy*, 12, 3122, 3122, 2022, <https://doi.org/10.3390/agronomy12123122> (Joint Author) (ID-A115, ISSN-2073-4395, Impact factor-3.95).
3. Genetic variability based on tandem repeat numbers in a genomic locus of *Candidatus Liberibacter asiaticus* prevalent in North East India-a treasure home of citrus. *Plant Pathology Journal*, 35 (6), 644-653, 2019, 10.5423/PPJ.OA.03.2019.0061 (Joint Author) (ID-J472, ISSN-1125-4653, Impact factor- 2.4).
4. Genotypic and phenotypic dissection of *Xanthomonas oryzae* pv *oryzae* from Eastern and North Eastern India. *Journal of Environmental Biology*, 2019; 41(1). (Impact factor- 0.7).

Publication with Impact factor(NAAS/UGC): 45 nos(Google Scholar ID:

https://scholar.google.co.in/citations?user=w-L_FyAAAAAJ&hl=en

Books edited:

- 1.P K Sarangi and Bireswar Sinha(2019). Microbe Assisted Sustainable Agriculture, Overseas Press Pvt. Ltd, Daryaganj, New Delhi-110002, Pp-1-268.(ISBN-978-81-939968-9-8).
- 2.S M Feroz, Bireswar Sinha, Indira Sarangthem and S Basanta Singh(2022). Entrepreneurship in Agri Business-Fundamentals and Recent Advances, Biotech books, Daryaganj, New Delhi-110002, Pp-1-230(ISBN-978-81-7622-528-1).
- 3.Bireswar Sinha(2022). Fusarium Diseases in Plants-Pathogenomics and Management. AGROBIOS RESEARCH, A Imprint of AGROBIOS (INDIA), Behind Nasrani Cinema, Chopasani Road, Jodhpur – 342003, Pp-1-390(ISBN-978-93-94380-24-0).
- 4.Indira Sarangthem, S H Haldhar, Bireswar Sinha and L Devarishi Sharma(2022).Determination of Soil & Plant Health for Agricultural Crops(202). Pp-1-136(ISBN-978-81-947184-8-2).
5. Basanta Singh, S., Sorangthem, I., Divakara Sastry, E.V., Bireswar Sinha, Feroze, S.M., Joykumar Singh, Ng. and Haldhar, S. M. 2020.National Workshop on Gender Issues and Atmanirbhar Bharat in Agriculture: Proceedings and Abstracts. Central Agricultural University, Imphal.Pp-267. .(ISBN: 978-81-947184-1-3.
- 6.Haldhar S. M., Saha R. K., Nagesh M., Bakthavatsalam N. and Sinha B. (2021). Souvenir-cum-Abstract Book: National Conference on Priorities in Crop Protection for Sustainable Agriculture. Pub: Directorate of Extension Education, CAU, Imphal Pp-282.(ISBN: 978-81-947184-7-5).
6. Bireswar Sinha, Sumitra Phurailatpam, Ksh Sumita and Nabakishor N. (2025). Cereal Diseases-Past, Present and Future Prospects, pp.338, Biotech Books, Daryaganj, New Delhi-110002, ISBN-978-81-7622-592-2.

Book Chapters:

- 1.B Sinha(2016).Trichoderma- A potential biocontrol agent for plant disease Management. Pp. 73-104. (ISBN 978-81-7132-825-3).
2. B Sinha(2016).Coffee Diseases. In. Plant Pathology- problems. Pp. 139-151. (ISBN 978-81-7132-822-2).
3. B Sinha(2016). Important Diseases of Onion and its management. In: Diseases of Vegetable Crops and their management (Book Chapter). Pointer Publishers, Jaipur-302003.(ISBN:978-81-7132-836-9).
4. B Sinha (2016).Management of soil borne diseases of vegetables by biocontrol agents. In: Diseases of Vegetable Crops and their management(Book Chapter), Pointer Publishers, Jaipur- 302003 (ISBN:978-81-7132-836-9).
- 5.B Sinha(2017). Disease Management of Non-Leguminous Seasonal Forages- In Forage Crops of the World Volume I, Apple Academic Press- Taylor and Francis Group, Hard ISBN:9781771886840, E-book ISBN: 9781351167369.
6. Bireswar Sinha, W Tampakleima Chanu, K sarda Devi and Nirmala M(2019). Biotechnological Interventions to utilize microbial resources for sustainable agriculture in Biotechnology for Sustainable Energy and Products, I.K International Publishing House Pvt., Ltd., New Delhi. (ISBN-978-93-86768-63-6).
7. R Poorvasandhya and B Sinha(2019). Biotechnology for pigeon pea wilt and sterility mosaic disease diagnosis and management, In: Modern Methods of Plant Disease Management, Aavishkar Publishers, Distributers, Jaipur, Rajasthan. ISBN-978-81-942456-4-3).
8. Nirmala Maibam, Bireswar Sinha and K Sarda Devi (2019). Role of Phosphate solubilizing bacteria in the plant growth promotion and disease management. In Bio-management of Plant Diseases. Aavishkar Publishers, Jaipur-302003, Rajasthan). (ISBN- 978-81-7910-571-9).
- 9.Sinha B., Rajendran P., Devi P.S. (2021) Mass Production of *Trichoderma* from Agricultural Waste and Its Application for Plant Disease Management. In: Baskar C., Ramakrishna S., Baskar S., Sharma R., Chinnappan A., Sehrawat R. (eds) Handbook of Solid Waste Management. Springer, Singapore. https://doi.org/10.1007/978-981-15-7525-9_32-1.
- 10.Bireswar Sinha, W Tampakleima Chanu, K Sarda Devi and L K Mishra(2019). Biotechnological interventions to utilize microbial resources for sustainable Agriculture, in ‘Biotechnology for Sustainable Energy and Products, I K International Publishing House, New Delhi, Pp 285-301. ISBN 978-93-867-68-63-6.
11. B. Sinha, Ph Sobita Devi and L N Singh(2020). Native Trichoderma – its importance and mass production- a success story from lab to land. In : Biocontrol and Utilization of insects in North East India, DEE, CAU, Imphal, pp 240-243. ISBN: 978-81-930078-3-5.
12. Wabnginla Ozukum, Kota Chakrapani, Sreeparna Chudhary, W.Tampakleima Chanu and Bireswar Sinha(2020). Host Plant resistant in sorghum,. In: A holistic approach for pest risk Management, pp: 231-244. ISBN: 978-81-7622-4611.
13. R. Poorva Sandhya, Kota Chakrapani. Bireswar Sinha, and W. Tampakleima Chanu, (2020). Integrated pest management in organic ecosystem, In: A holistic approach for pest risk Management, pp: 295-310. ISBN: 978-81-7622-4611.
- 14.Sreeparna Choudhary, Kota Chakrapani, Wabandinla Ozukum, Bireswar Sinha, and W. Tampakleima Chanu, (2020). OST Plant disease resistance to diseases in okra, In: A holistic approach for pest risk Management, pp: 311-322. ISBN: 978-81-7622-4611.

B. Courses taught at SAS, NU

Sl no.	Course title	Course no.	Credit hours	Academic level
<i>Bachelor of Science (Agriculture)</i>				
1	Fundamentals of Plant Pathology	PLP-102	4(3+1)	B.Sc(Ag)
2.	Agricultural Microbiology	PLP-101	2(1+1)	B.Sc(Ag)
<i>Master of Science (Agriculture) in Plant Pathology</i>				
2	Plant Virology	PI Path-502	3(2+1)	M.Sc
<i>Ph.D in Plant Pathology</i>				
3	Advanced Virology	PI Path- 602	3(2+1)	Ph.D
4	Molecular basis of Host Pathogen Interaction	PI Path-604	3(2+1)	Ph.D

C. Oral presentations

1. Bireswar Sinha. 2016. Trichoderma – a potential biocontrol agent against soil borne diseases. In National Workshop on ‘Sustainable Utilization of Microbial and Botanical products for promoting Organic farming’ 10/7/2016. IBSD, Imphal
2. Bireswar Sinha. 2017. Native *Trichoderma* – a complete package bio control agent under organic farming against soil borne diseases of vegetable crops in Manipur. In National Seminar on Emerging crops of NE India suitable for Horticulture based integrated farming system, 7-9th Feb., 2017. CAU.
3. B. Sinha. R. K. Padamini, S. Bhagat, Kh Pramesh and N. Kripalini. 2015. Management of Presented paper ORALLY on from 21st to 23rd January 2015, organized by Manipur University.
4. Bireswar Sinha, Someshwar Bhagat, Pramesh Kh, R. K. Padamini and K. Khedarani. (2015). Evaluation of native *Trichoderma* spp. against soil borne diseases of North East Region. Presented as Oral on National Seminar on Sustaining Hill Agriculture in Changing Climate from 5-7th December 2015 at Agartala, Tripura.
5. Bireswar Sinha. 2016. Seed borne diseases of rice and seed health test. Attended/presented at National Seminar on Ethano Science and Traditional Technology of Tribes and Indigenous Peoples of North East India organized by Department of Social Work and Department of Sociology, Indira Gandhi National Tribal University Regional campus, Manipur. (Oral)
6. Bireswar Sinha. 2016. Management of soft rot of ginger in Manipur. Oral presentation on National Seminar Integrating Agri-Horticultural and Allied Research for Food and Nutritional Security in the Era of Global Climate Disruption from 4-6th March 2016, at Imphal, Manipur organized by ICAR Research Complex for NEH Region, Umiam, Barapani. (Oral).
7. Utilization of microbial resources for plant disease management-A success story of *Trichoderma* spp from lab to land in Manipur, a state from North East India- Oral Presentation , National Conference on Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health held 2019 at UKA Tarsadia University, Gujarat.
8. Participated and oral presentation at national Conference on Agricultural Resource management for Atmanirbhar Bharat from 17 to 19th July 2020, organized by COA, CAU, Imphal.
9. Presented in Oral in the National Conference on Agricultural Resource management for Atmanirbhar Bharat held from 17-19th July 2020 at COA, CAU(I).

D. Invited Lecture

1. Deliver lecture on the topic ‘Climate change and virus disease’ on the workshop ‘Agriculture and Food Security in the context of climate change’ held from 12th to 14th October 2012 at ICAR Research Complex for NEH region, Manipur Centre, Lamlelpat, Manipur.
2. UGC sponsored National Seminar on “29-30th March, 2014, as Plenary lecture. Organic Farming in India: Prospects and Challenges with special references to Manipur’, Standard College, Manipur.
3. Deliver lecture on 28th August at 5 days Training course for Senior Level Extension Officer on ‘Quality control of organic inputs and concepts of organic cultivation’ on the topic Quality Parameters and testing of various Fertilizers’ organized by Regional Centre of Organic Farming, Imphal, from 26th to 30th August, 2014.
4. Deliver lecture on 3rd September at 5 days Training course for Senior Level Extension Officer on ‘Quality control of organic inputs and concepts of organic cultivation’ on the topic Quality Parameters and testing of various Fertilizers’ organized by Regional Centre of Organic Farming, Imphal, from 2nd to 6th September, 2014.
5. Deliver Lecture at three days training programme on ‘Seed processing and Seed health management’ on topic of ‘Concept of seed health’ organized by Director of Extension, CAU from 3rd to 05th Feb., 2015.
6. Deliver Lecture at two days training programme on ‘Soil Health Management for increasing Agricultural Productivity’ on topic of ‘Soil borne diseases and its management’ organized by Director of Extension, CAU from 17th to 18th March, 2015.
7. Bireswar Sinha and Pramesh Kh. 2015. Post Transplanting Management of Rice Diseases. Organized by Directorate of Extension Education, CAU, Imphal. 29-30 Sept., 2015.

8. Bireswar Sinha. 2015. Mass production of Bio-control agents using agricultural waste materials. In Capacity Building Training Programme on Agricultural Wastes Management, organized by Directorate of Extension Education, CAU from 7th to 8th October 2015.
9. Bireswar Sinha and R. K. Padamini. 2015. Integrated Disease Management of Soybean Diseases. Training programme on Improved Soybean Production Technology organized by AICRP, Soybean, Director of research, CAU from 26th to 27th Oct., 2015.
10. Bireswar Sinha and R. K. Padamini. 2015. Important Diseases of Flower Crops and Their management at Capacity building Training programme on Floriculture: A venture for Employment Generation organized by Directorate of Extension Education, CAU from 27-28th Nov., 2015.
11. Bireswar Sinha. 2016. Delivered lecture on Diseases of groundnut in Manipur and their management of Two days trainers training programme on Prospects of Groundnut cultivation in Manipur from 26-27th February, 2016 organized by AICRP (Groundnut), Directorate of Research, CAU, Imphal.
12. Diseases and pest management in cultivation of (MAP) – Medicinal and Aromatic Plant. Participated as resource person. State Level Seminar of (Two Day State Level Buyers-Sellers Meet on ‘Medicinal & Aromatic Plants, organized by Manipur State Medicinal Plant Board held at Indian Medical Association (IMA) House, Lamphelpat on 18th -19th January 2016.
13. Bireswar Sinha. 2017. Integrated Disease Management on Pre-sowing kharif rice under NE-Agroclimatic conditions. In Capacity building training programme on ‘Production Technology on pre-sowing kharif rice under North Eastern Agro-climatic conditions’ from 27-28th June, 2016, organized by Directorate of Extension education, CAU, Imphal.
14. Deliver Invited talk on national Symposium of Indian Phytopathological Society TRICHODERMA-EFFECTIVE BIOCONTROL AGENT AGAINST SOIL BORNE DISEASES ICAR-NEH Region Manipur Centre, 2017.
15. Given Lecture as Resource person on Tree bean decline in relation to disease Dying of Tree Bean in Manipur: Remedies and steps towards conservation. On 16th Jan., 2021. Manipur University at National Seminar.
16. Given Lecture as Resource person in Two days Workshop on Biocontrol of insects pests crops in North East Region at COFT, CAU(I) during 9-10th March 2021.
- D1. Invited Lecture on Farmers Training: Above 50 nos.

E. Research guidance at post graduate level (As Major Advisor)

Sl. No.	Institution	Name of students & Topics of Research	Degree	
			M.Sc./ M.Phil	Ph.D
1.	COA, CAU	Mrs. Rajlakshmi Yumnam on the topic ‘Exploration of native <i>Trichoderma</i> spp for the management of stem rot of French bean (<i>Phaseolus vulgaris</i> L) caused by <i>Sclerotium rolfsii</i> Sacc. 2013.	M.Sc	
2.	COA, CAU	Mrs. Khwairakpam Rashmi on the topic ‘Exploration of Native <i>Trichoderma</i> spp. for the management of stem rot of Groundnut caused by <i>Sclerotium rolfsii</i> Sacc). 2014.	M.Sc	
3.	COA, CAU	Mrs. Sahena Tongbram on the topic Evaluation of Local Cultivars of Rapeseed and Mustard against White Rust Caused by <i>Albugo candida</i> and Management of the Disease. 2015.	M.Sc	
4.	COA, CAU	Mis. R. K. Nirupama on the Topic ‘Management of wire stem of rapeseed and mustard by native <i>Trichoderma</i> spp’. 2015.	M.Sc	
5.	COA, CAU	Mrs. W Tampakleima Chanu on the topic Management of soil borne diseases of Chickpea (<i>Cicer arietinum</i> L.) by native <i>Trichoderma</i> species. 2016.	M.Sc	
6.	COA, CAU	Mis. Tusi Chakma on the topic Reaction of <i>Albugo candida</i> to Local Cultivars of Rapeseed and Mustard in Manipur 2017.	M.Sc	
7.	COA, CAU	Mis. C. Lalhrualtuangi on the topic A Study on Pod Blight of Soybean (<i>Glycine max</i> L.) and its Management by Native <i>Trichoderma</i> spp. in Valley Areas of Manipur 2017.	M.Sc	
8.	COA, CAU	Mr. Ch. Inao Khaba on the topic Variability and Molecular Characterization of <i>Pestalotiopsis Mangiferae</i> Bult. Causing Grey Leaf Spot of Mango 2017.	M.Sc	
9.	COA, CAU	Mr. Dinesh on Morphological and Molecular variability of <i>Sclerotium rolfsii</i> and <i>in vitro</i> management.	M.Sc	

10.	COA, CAU	Mis. Rahee Bui on Post-harvest disease of mango and <i>in vitro</i> management.	M Sc	
11.	COA, CAU	Mis. Linda on Pathological aspects on Tree bean decline in Manipur...continue	M Sc	
12.	COA, CAU	Mr. Kota Chakrapani on Morphological and Molecular variability of <i>Rhizoctonia solani</i> caused sheath blight of rice and <i>in vitro</i> management.	M Sc	
13.	COA, CAU	Mis. Shruti Ranote on Study on the effect of temperature, pH and sugar on growth of <i>Lasiodiplodia theobromae</i>	MSc	
14.	COA, CAU	Mis.Prajna Samal on Effect of elevated temperature on uptake of nutrients against <i>Rhizoctonia solani</i>	MSc	
15.	COA, CAU	Mr. S M Ibrar on Exploration of native Trichoderma spp and management of Fusarium wilt of tomato	MSc	
16.	COA, CAU	Dr. Y Herojit on Genetic diversity of CLAs causing citrus greening in Manipur		PhD
17.	COA, CAU	Dr. W. Tampakleima Chanu on Characterization of soil borne diseases of Pea and ecofriendly management- 2017	-	PhD
18.	COA, CAU	Dr. Kota Chakrapani on Histopathological response and effect of elevated conditions of <i>Fusarium oxysporum</i> inciting wilt of pea(<i>Pisum sativum</i> L.)		PhD

E1.Research Projects Handled/Associated

Externally Funded Project							
Sl No	Pi/Co-PI	Title of the project	Year of start	Duration	Amount	Funding agency	Status
1.	Co-PI	All India Network project of Soft rot of Ginger.	2010	5 Years	22.1Lacs	ICAR	Completed
2.	PI	Exploration of Native <i>Trichoderma</i> against soil borne diseases	2011	3Years	47.51Lacs	DBT, Govt., of India	Completed
3.	Co-PI	Marker Assisted Selection Against BLB of rice.	2012	3Years	89.51Lacs	DBT, Govt., of India	Completed
4.	DBT-RA Supervisor	Characterization of native microbes Ghost Pepper in Manipur	2014	2Years	8.25Lacs	DBT, Govt., of India	Completed
5.	Women Scientist – Mentor	Impact of shifting cultivation on Rhizome rot and management by native <i>Trichoderma</i> spp. in Manipur	2016	2Years	17.02Lacs	DST, Govt., of India	Completed
6.	Post-Doc Supervisor	Exploration of native endophytic and rhizospheric plant growth promoting microorganisms from Chakhao- Post DoC-NPDFS, SERB-	2016	2Years	19.20Lacs	SERB, Govt., of India	Completed
7.	PI	Mass production of native <i>Trichoderma</i> spp with locally available agricultural waste or substrates	2016	3Years	26.58Lacs	DST, Govt., of India	Completed
8;	Co-PI	Centre of Excellence of Oil Palm	2021	5Years	21.0 Cr	Govt., of India	Left during Nov., 2023
9.	Co-PI	M4Agri	2020	2Years	1.0 Cr	MeitY, Govt., of India	Left during Nov., 2023

10	Co-PI	Incorporation of crtRB1 allele into sweet corn inbreds	2022	3Years	22.00Lacs	DBT, Govt., of India	Left during Nov., 2023
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F. a) Members of Professional bodies

1. Life Membership of India Society of Plant Pathologists: INSOPP, Punjab Agricultural University, Ludhiana.
2. Life Membership of India Phytopathological Society: IPS, ICAR, New Delhi.
3. Life Membership of Association of Plant Pathologist, PVKV, Akola.
4. Life Membership of Plant Protection Association of India, Hyderabad.
5. Life Member of Academy of Advancement of Agricultural Sciences, Kalyani, West Bengal.
6. Founder Member of Academy of Advancement of Agricultural Sciences, Kalyani, West Bengal.

F. b) Member of academic and administrative bodies of Nagaland University: NIL

G. Resource Mobilization

E-module preparation as Coordinator of a BSc(Ag) course on Diseases of Horticultural Crops and their management in association with EMRC, Manipur University. The said course has already been completed two all India level teaching as online module.

H. Organizing national/international symposium/seminars/conferences/workshops/ colloquium

1. Three Days Regional Workshop on Starts-up and Entrepreneurship from 25-27th Sept., 2020 under IPD-NAHEP, COA, CAU(I)- as Organizer.
2. One Day workshop on Food quality and safety management for export of processed Food products from NER on 26/03/2021 in collaboration with IIFPT, Guwahati and IDP, NAHEP, COA, CAU(I)- As Organizing Secretary.
3. One day faculty development programme on 'Commodity derivative Markets' on 6th March 2022 in collaboration with SEBI and IDP, NAHEP, COA, CAU(I)- As Coordinator.
4. Three days National Conference in Crop protection for sustainable Agriculture from 16-18 March 2021 at COA, CAU(I) – As Co-organizing Secretary.
5. Three days National Workshop on Gender issues and Atmanibhar Bharat in Agriculture from 15-17th Oct 2020 at COA, CAU(I)- Co-organizing secretary.
6. Two Day Workshop on Microbial diversity for sustainable agriculture in North East India from 28th to 29th January, 2021 at COA, CAU(I)- As Co-organizing Secretary.
7. Two Day National Symposium on Plant Disease Management for Sustainable Crop Production of IPS-NEZ from 8th to 9th December 2013 at SAS, NU and COA, CAU(I) - As Organizing Secretary.

I. Participation in national/international symposium/seminars/ conferences/workshops/ colloquium

1. B. Sinha, S. Bhagat, Pramesh Kh, R. K. Padamini and N. Kripalini. 2015. Management of soil borne diseases of cole crops by *Trichoderma* spp from North east Region. Presented as paper POSTER on National Seminar on the from 19th to 20th Feb., 2015, organized by IBSD, Imphal, Manipur.
2. Reshmi Kh, B. Sinha, R. K. Padamini, Pramesh Kh and Joseph K. 2015. Variability of *Trichoderma* species isolated from rhizosphere on Groundnut (*Arachis hypogea* L.) in Manipur' Presented as paper POSTER on National Seminar on the topic from 23th to 24th March 2015, organized by Centre of Advanced study in Life Sciences, Manipur University, Manipur.
3. B. Sinha., S. Bhagat, R. K. Padamini, Pramesh Kh and Joseph K. (2015). Native *Trichoderma* spp. an alternative biopesticides for organic agriculture. Presented as poster on National Conference on 'Indigenous Foods and Drinks Sector' from 11 12th April, 2015 by AFST-I), Manipur Chapter at Central Agricultural University, Imphal, Manipur.
4. Attended and participated three days (28th to 30th Sept., 2020) online regional workshop on career opportunity in Agriculture professionals in India/Abroad, organized by CDC-NAHEP, COA, CAU.
5. Attended 5 days national webinar on Application of R software for data analysis in agricultural and Life Sciences from 24th to 28th August 2020 organized by College of Fisheries, CAU, Lembucherra, Tripura.
6. Participated webinar on Challenges and opportunities before youth in Agriculture on 4th Sept., 2020 organized by NAHEP, CAU, Imphal.
7. Participated in National Symposium on Plant disease Management experience and aspirations (Dec., 7-8th 2020), Indian Phytopathological Society(North eastern Zone).
8. Attended in the Workshop on Biocontrol of crop pests & invasive and utilization of insects as Food in NE India at COA, CAU(I) during 25-26th Feb., 2020.

J. Popular article:

1. Kota Chakrapani & Bireswar Sinha (2021). Management of Important Diseases of Tuber Crops, in Tuber Crops and their prospects in North eastern states, pp-61-68.

2. Bireswar Sinha, L N K Singh and Kh Maipak Singh(2019). Cultivation of Pleurotus mushroom, in Training manual on Scientific cultivation mushroom cultivation, COA, CAU(I), Pp-3-4.
3. Bireswar Sinha, L N K Singh (2019). Cultivation of White button Mushroom(Agaricus), In Training manual on Scientific cultivation mushroom cultivation, COA, CAU(I), Pp-11-41.
4. Bireswar Sinha (2019). Cultivation of White milkey mushroom, In Training manual on Scientific cultivation mushroom cultivation, COA, CAU(I), Pp-42-43.
5. Bireswar Sinha. 2011. Late blight of potato and its management. *CAU Farm Magazine*(ISSN:2279-0454).
6. Bireswar Sinha. 2011. Some important seed borne diseases and their management. *CAU Farm Magazine*(ISSN:2279-0454).
7. Pramesh Kh., L. Jamini., B. Sinha and B. Thangjam. 2013. Recommended management practices of Groundnut variety ICGS-76 under Manipur conditions and its value added products. *CAU News Letter*.(ISSN-2319-3042).
8. Bireswar Sinha (2013). Integrated Disease Management (IDM) under different rice agro-ecosystem with different cultural practices of NE Region. In: Proceedings of ‘Location specific advances in rice production Technology for NEH Region. ISBN 978-81-92855-0-0.
9. Bireswar Sinha, W. Tampakleima Chanu, Pramesh Kh and K. Khedarani. 2014. Molecular identification of chickpea wilt pathogen in Manipur. *CAU News Letter*, 5(2): 5-6.
10. Khedarani Kojiam and Bireswar Sinha (2014). Molecular characterization of the *Trichosserma* sp. isolated from rhizosphere of Ghost pepper. *CAR News Letter*, 5(2):12-13.
11. Rashmi Kh., B. Sinha and Pramesh Kh. (2014). Native *Trichoderma* spp for the management of stem rot of groundnut caused by *Sclerotium rolfsii* Sacc. *CAR News Letter*, 5(2):14-15.
12. Bireswar Sinha and W Tampakleima Chanu, 2015. Management of Soil borne disease of chickpea. *CAU Farm Magazine*, 5(2): 11-13 (ISSN:2279-0454).
13. Pramesh Kh and Bireswar Sinha. 2015. Integrated Disease Management of Groundnut (*Arachis hypogea*) in Manipur. *CAU farm Magazine*, 5(1):17-19. (ISSN:2279-0454).
14. Bireswar Sinha, L. Nongdren Khomba and R. K. Padamani. 2016. Diseases of Watermelon and their management. *CAU farm Magazine*, 6(1): 28-32. (ISSN:2279-0454)
15. Bireswar Sinha. Damping off disease and its management. *Sangai Express*, 18/11/2015(Manipuri Edition).
16. Bireswar Sinha. Pea diseases and its management. *Sangai Express*, 02/12/2015(Manipuri Edition).
17. Bireswar Sinha. Diseases of rapeseed and mustard and its management. *Sangai Express*, 16/12/2015(Manipuri Edition).
18. Bireswar Sinha. Diseases of Watermelon and their management (Sangai Express, 13/01/2016(Manipuri Edition).
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K. NET QUALIFICATIONS : ICAR-ASRB

L. Fellowships/Scholarships Received : BSc Agri- State Govt Scholarship

M. Trainings attended

1.	SMART,	Summer school from 16 th to 30 th May, 2006 of “Fourth All India Summer School On Molecular techniques”	Tiruchengode, Tamil Nadu, India.	2006	15	Attended
2.	Burdwan University	National level training programme of Scanning Electron Microscope, , West Bengal, India	Burdwan University, West Bengal, India		7	Attended
3.	IARI	Winter School of 21 days from October 20 to November 2, 2011 on Epidemiology and Forecasting of Plant Disease on Climate change. Department of Plant Pathology, IARI, New Delhi.	Department of Plant Pathology, IARI, New Delhi.	2011	21	Attended
4.	NIPHM,	Orientation Training Programme for Phytosanitary Certificate Issuing Authorities’ from 26 th to 31 st August 2013 at NIPHM, Hyderabad.	NIPHM, Hyderabad	2013	6	Attended
5.	IIHR	Advances in Molecular Diagnosis of Emerging Plant Diseases for Biosecurity	Department of Plant Pathology, IIHR	2014	21	Attended
6.	DBT	Workshop on Microbiology and Microbial Genomics	Tripura University, State Biotech Hub	2019	5	Attended

Declaration: I hereby declare that all the information presented above is true to the best of my knowledge and belief.

Name: Bireswar Sinha

Signature:

Date: 21/08/2024