

**RESUME****Dr Binoy Raj Sharma**

Professor in Plant Pathology

**CONTACT DETAILS**

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OFFICIAL ADDRESS : Department of Plant Pathology  
Uttar Banga Krishi Viswavidyalaya  
Pundibari, Coochbehar, West Bengal, India, 736165

2. DATE OF BIRTH : 06.06.1968

3. Academic Qualification : Ph. D. in Plant Pathology

Examination or Degree or Diploma	Board / University	Year of		% of marks Obtained /OGPA* (with scale)	Class/ Division	Subject with Specialization at Master degree level and onward
		Admission	Passing out			
Secondary	C.B.S.E.	1983	1985	48.40	2 <sup>nd</sup>	-
Higher Secondary	W.B.C.H.S.E.	1985	1987	64.60	1 <sup>st</sup>	-
Graduation	Bidhan Chandra Krishi Viswavidhyalaya	1987	1992	76.84	1 <sup>st</sup>	-
Master Degree	Bidhan Chandra Krishi Viswavidhyalaya	1992	1995	OGPA 3.40/4	1 <sup>st</sup>	Plant Pathology
Doctoral Degree	Uttar Banga Krishi Viswavidhyalaya	2005	2008	OGPA 8.42/10	1 <sup>st</sup>	Plant Pathology

4. Award for PhD Thesis : -

**5. Experience (Experience and Professional)****a. As Teacher/Researcher**

Sl. No.	Employer	Post held	Pay scale	Period of employment		Actual duration
				From	To	
1	Darjeeling Krishi Vigyan Kendra, Bidhan Chandra Krishi Viswavidyalaya.	Lecturer (Plant Protection)	8000 - 275 - 13500/-	10.1.1997	9.1.2003	6 years
2.	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Assistant Prof. Plant Pathology	8000 - 275 - 13500/-	10.1.2003	31.12.2004	1 year
3.	Regional Research Station (Hill Zone),	Assistant Prof. (Senior Scale)	15600 - 39100/-	01.01.2005	31.12.2009	4 years

	Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Plant Pathology	GP - 7000/-			
4.	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Assistant Professor, stage – 3, Plant Pathology	15600 - 39100/- GP - 8000/-	01.01.2010	31.12.2012	3 years
5.	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Associate Professor, stage – 4, Plant Pathology	37,400 - 67,000/- GP - 9000/-	01.01.2013	31.12.2015	3 years
6.	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Professor, stage – 5, Plant Pathology	37,400 - 67,000/- GP - 10000/-	01.01.2016	Continuing	9 years

**b. As Unit Head :**

Name of the Institute	Particulars	From	To
Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	Nodel Officer, Gramin Krishi Mausam Sewa, AMFU, Kalimpong.	2011	2015
Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	ADF (Actg.) of the RRS (Hill Zone) Farm Section.	2019	Continuing

**c. As Establishment Head :**

Name of the Institute	Particulars	From	To
Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	In-Charge and DDO of the Station.	2010	2015

**d. As Project PI:**

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs.In lakhs)
		From (DD/M M/YYYY)	To (DD/M M/YYYY)		

**d. As Project Co-PI:**

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs.In lakhs)
		From (DD/M M/YYYY Y)	To (DD/M M/YYYY Y)		
Study of race variation, characterization and behavior of clubroot of crucifers pathogen <i>Plasmiodiophora brassicae</i> (woronin) in West Bengal	Co-PI	1998	2001	Indian Council of Agricultural Research (ICAR, New Delhi)	Rs. 8.00
Improved Management of Ginger Diseases	Co-PI	2001	2002	International Foundation for Science, Sweden	Rs. 6.00
Infrastructure Development at Regional Research Station of Uttar Banga Krishi Viswavidyalaya for production of Quality Planting Materials, Refinement of Technology and Human Resource Development to Rejuvenate Mandarin Orange at hills of West Bengal.	Co-PI	2022	2023	Rastriya Krishi Vikash Yojana, Govt of India.	Rs. 291.01
Quality Planting Material (QPM) Production, Agro-techniques Refinement and Human Resource Development for Commercial Exploration of Important Spice Crops Like-Large Cardamom, Ginger, Turmeric, Dolley Khursani and Yacon in the Hill region of North Bengal.	Co-PI	2022	2023	Rastriya Krishi Vikash Yojana, Govt of India.	Rs. 343.35
Evaluation of new insecticides offering for better chemicals management of pests of citrus and tea	Co-PI	2021	2023	Syngenta India Pvt. Ltd.	Rs. 6.60
Evaluation of new insecticides for better chemical management of borer pests in sugarcane	Co-PI	2021	2023	Syngenta India Pvt. Ltd.	Rs.3.20
Evaluation of bioefficacy, phytotoxicity and natural enemies of Pymetrozine 45%+Triflumezopyrim 7.5% (52.5)WG and	Co-PI	2021	2023	Syngenta India Pvt. Ltd.	Rs.4.83

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs.In lakhs)
		From (DD/M M/YYYY Y)	To (DD/M M/YYYY Y)		
Pymetrozine 12%+Triflumezopyrim 2%(140SC) against <i>Nilaparvata lugens</i> , <i>Sogatella furcifera</i> and <i>Nephotettix sp</i> on paddy					
Evaluation of some new insecticides for better chemicals management of Tea looper, leaf roller and thrips	Co-PI	2021	2023	Syngenta India Pvt. Ltd	Rs.3.00
Evaluation of some new insecticides for better chemicals management of Pests of Okra, onion, citrus and tea	Co-PI	2021	2023	Syngenta India Pvt. Ltd	Rs.13.04
Evaluation of some new insecticides for better chemicals management of pests of chilli, eggplant, cucumber,okra and water melon.	Co-PI	2022	2024	Syngenta India Pvt. Ltd	Rs.16.10
Evaluation of some new insecticides for better chemical management pests of different crops	Co-PI	2022	2024	Syngenta India Pvt. Ltd	Rs.19.32
Studies on bio-efficacy of Cruiser 35FS against aphid on mustard and jassid on Okra	Co-PI	2022	2024	Syngenta India Pvt. Ltd	Rs.6.44
Evaluation of pesticides against insect and nematode pests of some field crops	Co-PI	2023	-	Syngenta India Pvt. Ltd	Rs.7.61
Evaluation of some insecticides for better chemical management of some pests of Jute	Co-PI	2023	-	Syngenta India Pvt. Ltd	Rs.3.22
Evaluation of some new insecticides for better chemical management of some pests of chilli	Co-PI	2023	-	Syngenta India Pvt. Ltd	Rs.3.15560

## II. TEACHING EXPERIENCE

Sl. No.	Item	Details	Years
1.	Graduation level		
2.	Masters' level	Diseases of field crops. Diseases of Field Crops and Medicinal Plants.	2022 2023
3.	Doctoral level	Diseases of field crops. Diseases of Field Crops and Medicinal Plants.	2022 2023
4.	Ph.D Student Guidance	Evaluation of Important Fungal Diseases of Lentil Under Terai Zone of West Bengal.  Exploring native Bio-agents for suppression of major Soil-borne	2014 to 2021

		diseases of Ginger.	2023 and continuing.
5.	M.Sc. Student Guidance		
6.	Innovation of Teaching Methods		

### a) Professional Trainings

Details of the programme	Level (Local / National / International)	Period	
		From (DD/MM/YYYY)	To (DD/MM/YYYY)
<b>Training at national level</b>			
“ <b>Detection of Plant Pathogen</b> ” at Centre of Advance Studies in Plant Pathology, Division of Plant Pathology, IARI, New Delhi	National	26.11.1996	24.12.1996
“ <b>Agro-ecosystem Analysis using PRA tools</b> ” at Rathindra Krishi Vigyan Kendra, Palli Siksha Bhawan, Viswa Bharati, Sriniketan, West Bengal India	National	15.09.1998	24.09.1998
“ <b>Ecologically Sustainable Management of Plant Diseases: Status and Strategies</b> ” at Centre of Advance Studies in Plant Pathology, College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttaranchal, India	National	22.03.2004	11.04.2004
“ <b>Disease resistance in field and horticultural crops: Key to sustainable Agriculture</b> ” at Centre of Advance Studies in Plant Pathology, College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttaranchal, India	National	10.12.2004	30.12.2004
“ <b>Organic farming for Extension Officers/ Field Functionaries</b> ” organized by Regional Centre Of Organic Farming, Dept. of Agri. & Co-operation, Ministry of Agriculture, Govt. of India, A-153, Sahid Nagar, Bhubaneswar-7 at <i>Krishak Kalyan Sangatan</i> , Kalimpong, West Bengal	National	06.01.2009	10.01.2009
“ <b>Conservation of Natural Resources for Sustainable Hill Agriculture</b> ” at ICAR Research Complex for NEH Region, Umiam, Meghalaya. India	National	25.08.2009	14.09.2009
“ <b>Recent Advances in Mass Production of Biological Control Agent</b> ” at ICAR- National Research Centre for Integrated Pest Management, New Delhi	National	01.09.2015	10.09.2015
“ <b>Agriculture Knowledge Management, ICTs and Portals</b> ” organized by National Institute of Agricultural Extension Management, Hyderabad held at Kalimpong, GTA Darjeeling	National	21.04.2015	2 4.04.2015
<b>Training at International level</b>			

**b) Seminars/Symposiums/Workshops Attended**

Details of the programme	Period	
	From	To
International Conference on “Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges” Organized by Uttar Banga Krishi Viswavidhyalaya (Hill Campus), Kalimpong, West Bengal in collaboration with IARI – Regional Station, Kalimpong, NRC- Orchid , Darjeeling, CPCRI- Mohitnagar and DCMOP Mungpoo, Darjeeling.	22.05.2014	24.05.2014
UGC Sponsored National Seminar on “Advances in Biology: Eastern Himalayan Perspective” Organized by Department of Botany and Department of Zoology, Kalimpong College, Kalimpong, West Bengal	04.10.2015	03.10.2015
International Symposium on “Next Generation Approaches for Sustainable Development of Hill and Upland Horticulture” Organized by Department of Horticulture, Sikkim University, Gangtok, Sikkim.	05.11.2015	07.11.2015
Brainstorming Workshop on “Indian Citrus Industry” Organized by Department of Horticulture, Sikkim University, Gangtok, Sikkim.	15.11.2015	15.11.2015
National Conference on “Bioresources Management for Sustenance of Ecosystem and Livelihood” Organized by Cooch Behar Association for Cultivation of Agricultural Science, UBKV, Pundibari Cooch Behar, West Bengal	26.11.2015	29.11.2015
Workshop on “Production, Protection and Post-Harvest Technologies on Mandarin Organized by Regional Research Station (Hill Zone) and Krishi Vigyan Kendra, UBKV, Kalimpong, Darjeeling.	18.02.2016	19.02.2016
National Conference on “Enhancing Nutritional Security through Climate Smart Farming Practices” Organized by Cooch Behar Association for Cultivation of Agricultural Science, UBKV, Pundibari Cooch Behar, West Bengal	17.03.2017	18.03.2017
International Conference on “Contemporary Issues in Integrating Climate – The Emerging Areas of Agriculture, Horticulture, Biodiversity, Forestry, Engineering Technology, Fundamental/Applied Science and Business Management for Sustainable Development (AGROTECH-2017)” Organized by Himalayan Scientific Society for Fundamental and Applied Research in Collaboration with Kalimpong Science Centre and UBKV, Kalimpong, West Bengal	11.05.2017	12.05.2017
National Symposium on “Spices and Aromatic Crops” Held at SASRD, NU and Organized by SASRD, Nagaland University, Medziphema Campus and Indian Society for Spices, Kozhikode, Kerala	15.03.2018	17.03.2018
International Conference on “Current Issues in Agriculture, Biological and Applied Sciences for Sustainable Development (CIABASSD-2022)” Organized by Directorate of Extension Education, UBKV, Pundibari, Coochbehar in Collaboration with Kalimpong Science Centre, ICAR-NAHEP, AEDS, U.P., India, and Himalayan Scientific Society for Fundamental and Applied Research, Kalimpong	11.06.2022	13.06.2022
International Conference on “Global Efforts on Agriculture, Forestry, Environment and Food Security (GAFF-2022)” Organized by Institute of Forestry, Tribhuvan University, Pokhara Campus, Pokhara, Nepal.	17.09.2022	19.09.2022
Workshop on Cirtus Decline & Bactrocera Fruit Fly Management Organised by College of Horticulture, CAU (Imphal), Birmiok, Sikkim.	12.09.2024	12.09.2024
Workshop on “Avogadro Cultivation: A profitable venture in the foothills of Doowers” Organized by District Horticulture Office, Alipurdwar District.	20.09.24	20.09.24

## c) Seminars/Symposiums/Workshops organized

Details of the programme	Period	
	From	To
International Conference on “Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges” Organized by Uttar Banga Krishi Viswavidhyalaya (Hill Campus), Kalimpong, West Bengal in collaboration with IARI – Regional Station, Kalimpong, NRC- Orchid , Darjeeling, CPCRI- Mohitnagar and DCMOP Mungpoo, Darjeeling.	22.05.2014	24.05.2014
International Conference on “Contemporary Issues in Integrating Climate – The Emerging Areas of Agriculture, Horticulture, Biodiversity, Forestry, Engineering Technology, Fundamental/Applied Science and Business Management for Sustainable Development (AGROTECH-2017)” Organized by Himalayan Scientific Society for Fundamental and Applied Research in Collaboration with Kalimpong Science Centre and UBKV, Kalimpong, West Bengal.	11.05.2017	12.05.2017
National Conference on “Enhancing Nutritional Security through Climate Smart Farming Practices” Organized by Cooch Behar Association for Cultivation of Agricultural Science, UBKV, Pundibari Cooch Behar, West Bengal.	17.03.2017	18.03.2017
International Conference on “Current Issues in Agriculture, Biological and Applied Sciences for Sustainable Development (CIABASSD-2022)” Organized by Directorate of Extension Education, UBKV, Pundibari, Coochbehar in Collaboration with Kalimpong Science Centre, ICAR-NAHEP, AEDS, U.P., India, and Himalayan Scientific Society for Fundamental and Applied Research, Kalimpong.	11.06.2022	13.06.2022
District level seminar on spices and Krishi Mela on natural farming Jointly Organised by Kalimpong Regional Research Station (HZ) and Darjeeling Krishi Vigyan Kendra.	27.02.2023	29.02.2023

## IV. Extension Experience

## a) Participatory Research

Title of Technology	Methods Adopted	Individual/Collaborative

## b) Technology Developed

Category of achievement	Title	Year	Additional information, if any

**V) Other academic related experiences**

Sl. No.	Other academic experiences
1	Associated with the extension oriented research for six years while working in Darjeeling Krishi vigyan Kendra from 1997 to 2003.
2	More than twenty years of research experience on working with pathological aspects of ginger at hilly agro-climatic region of West Bengal since 1997.
3	Research work concentrated with the major diseases of other important crops grown in Darjeeling Hills (viz., Rice blast, Powdery mildew in Pea, Club-root of crucifers, Citrus disease, Black rot disease in Orchids) since 1997.
4	Associated with the National Screening Nursery (Hill) Programme for Rice Blast disease from 1997 to 2018.
5	Looking after the seed production programme for Spices (Ginger, Large Cardamom and Turmeric) under MIDH-Spices since 2014.
6	Member, Potato Wart Disease Survey Team for Kalimpong and Darjeeling District of West Bengal constituted by State Government involving Official from Central and State Government, Scientist from CPCRI, Simla and State Agricultural Universities since 2017.
7	Member, Research Council, Uttar Banga Krishi Viswavidyalaya, Pundibari, Coochbehar from 2017 to 2020.
8	Members of QRT team for accreditation of large cardamom nursery in Sikkim under DASA Kerela in the yeay 2021.
9	

**B. Administrative Experience**

Sl. No.	Name of the Post	Nature of Work	Duration	Organization	Remarks
1	In-Charge and DDO of the Station.	Academic as well as Administrative	2010 to 2015	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	
2.	Nodel Officer, Gramin Krishi Mausam Sewa, AMFU, Kalimpong.	Academic as well as Administrative	2011 to 2015	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	
3.	Assistant Director of farm (Actg.)	Administrative	Since 2019	Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong.	

## 6. LIST OF PUBLICATION

## Journal Papers

1. **Sharma B. R.**, Mandal, B., Thapa, U.C. and Saha, B. C (1998). An outbreak of cymbidium rot epidemic at Kurseong (Darjeeling district). *J. orchid Soc. India*, **12**(1-2): 5-8
2. Mondal, J., **Sharma, B. R.** and Ravi Kiran (2004). Effect of changed meteorological regimes on yield, its attribute and powdery mildew incidence of garden pea (*Pisum sativum* L.). *Indian Agriculturist*, **48**(3 & 4): 211-214.
3. **Sharma, B. R.**, Dutta, S., Roy, S., Debnath, A. and De Roy, M. (2010).The Effect of Soil Physico-chemical Properties on Rhizome Rot and Wilt Disease Complex Incidence of Ginger under Hill Agro-climatic Region of West Bengal. *Plant Pathol. J.*, **26**(2): 198-202.
4. Mukherjee Dhiman and **Sharma, B.R.** (2012). Studies on Productivity, Economics and Disease Incidence of Garden Pea (*Pisum sativum* L.) as Influenced by Sowing Date and Cultivars. *J. Interacad.*, **16**(2): 203 – 209.
5. **Sharma, B.R.**; Dutta S. and Roy S. (2012) Influence of plant spacing, rhizome size and cultivars on the incidence of rhizome rot and wilt disease complex of ginger. *Journal of Horticulture and Forestry*, **4**(12): 105 – 107.
6. Pal, S.;Ghimiray, T.S. and **Sharma, B.R.**( 2013) Reaction of Soyabean cultivars to leaf folder, *Nacoleia spp.* under mid hill conditions of Daejeeling, West Bengal. *Agricultural Science Digest*, **33**(4): 327 – 328.
7. Mukharjee Dhiman; **Sharma, B.R.** and Mani Jugal Kishore (2013) Influence of different sowing dates and cultivars on growth, yield and disease incidence in garden pea (*Pisum sativum*) under mid hill situation. *Indian journal of agricultural Sciences*, **83**(9): 918 – 923.
8. Dhiman Mukherjee and **B.R.Sharma** (2014) Conservation and Scope of Medicinal Plant in Eastern Himalaya. *The Himalayan Review* **1**(1): 102 -110.
9. Sajeed Ali, Rakesh Yonzzone, S. Baskey and **B.R. Sharma** (2014) Northern Blight Disease of Maize (*Zea mays* L.) – A Review *Himalayan Research Journal* **2**(1): 8 -13.
10. S. Baskey, **B.R. Sharma**, Sajeed Ali and Dilip Kumar Mishra (2014) Sigatoka Disease of Banana (*Musa paradasica* L.) – A Review. *Himalayan Research Journal* **2**(1): 14 -21.
11. Sajeed Ali, **B.R. Sharma**, RakeshYonzzone, and A. K. Chowdhury (2015). Integrated Management of *Turcicum* Leaf Blight Disease of Maize (*Zea mays* L.) in Hill Agro-Ecological Zone of West Bengal. *Journal of Agriculture and Technology*, **2**(1&2): 92 -94.
12. Bandan Thapa, Pawan Basnet and **Sharma, B. R.** (2015).Yarsagumba: A Miracle Creation of Nature. *Himalayan Research Journal*, **2**(2): 7 – 13.
13. Baskey S, Hembrom S, Ali S, **Sharma BR**,Tudu B And Chakraborty S (2016). Stem Rot, a new disease of *Valeriana jatamansi* in the Sub-Himalayan Zone of Darjeeling district of West Bengal, India. *International Journal of Applied And Pure Science and Agriculture*. **2**(2), 195-199.
14. Baskey,S. and **Sharma B.R.** (2016).Stem rot – a dreaded disease and their management practices of high value medicinal plant Indian valeriana (*Valerianajatamansi*). *The Himalayan Review*. **1**(2);240-245.
15. Baskey,S. and **Sharma,B.R.** (2016).Diseases of chirata- an endangered, high value medicinal plant and their management practices. *The Himalayan Review*. **1**(2);233-239.
16. Baskey S, Hembrom S, Ali S, **Sharma BR**,Tudu B And Chakraborty S. (2016). First report of leaf blight (*Cladosporium tenuissimum*cooke) on swertiachirayita –a critically endangered medicinal plant of subhimalayan zone. *International Journal of Recent Scientific Research*. **7** (2) 8923-8925.

17. Baskey S., Hembrom S., Ali S., **Sharma B.R.**, Tudu B., Chakroborty S. (2016). Survey on fungal diseases of *Swertia chirayitain* in Darjeeling district of West Bengal, India. *International Journal of Sciences & Applied Research*. **3**(3), 86-89.
18. **Sharma B. R.**, Roy S. and Dutta S.. (2016). Survey of Rhizome Rot and Wilt Disease Incidence of Ginger in Major Growing Area of Darjeeling Hill, India. *Direct Res. J. Agric. Food. Sci.* **4** (1), 14-18.
19. Baskey, S., Bandan Thapa, Roy, K., Ali, S., **Sharma, B.R.** and Hembrom, S. (2016). First report of leaf spot (*alternaria alternata*) on *swertia chirayita* – a critically endangered medicinal plant of sub-himalayan zone. *Asian Journal of Science and Technology*. **7**(4). 2760-2762.
20. **Sharma, B.R.**, Debnath Anamika, Ali S., Baskey S., Thapa Anjana, and Dutta S. (2017). Identification and characterization of different pathogens associated with Rhizome Rot and Wilt disease complex of ginger in Darjeeling Himalayas. *J. Mycopathol.Res.* **54**(4): 517 – 521.
21. H.K.T arafder, P . Barma, B. T udu, B. P atra, S.Gurung, **B.R.Sharma** and S.Ali (2017). Darjeeling mandarin production constraints : Issues and strategies. *Progressive Research – An International Journal*, **12** (**II**): 1523-1525.
22. Yonzone Rakesh, Khalko Surajit, **Sharma B.R.**, Bhattacharya P.M. , Bandyopadhyay S., Hembram S. and Das Bimal (2021). Influence of Crop Rotation on Disease Incidence and Population Dynamics of Ginger Wilt inciting Pathogen (*Ralstonia solanacearum*) under Organic Management Practice in Hill Zone of West Bengal. *Biological Forum – An International Journal* **13**(3): 168-173.
23. Jasudasu, G. S., Sharma, B. R., Khalko, S., Bandyopadhyay, S. and Roy, A. (May 2022). Cultural and Morphological Characterization of *Rhizoctonia solani*, responsible for Seedling blight and Dry rot of Lentil. *Eco. Env. & Cons.* **28**(May Suppl Issue): S434-S442.
24. Yonzone Rakesh, Khalko Surajit, **Sharma B.R.**, Hembram S., M. Soniya Devi and Das, B. (December 2022). Correlation on Population Dynamics and Disease Incidence of Bacterial Wilt Instigating Pathogen (*Ralstonia solanacearum*) Under different Intercropping System. *Bangladesh J. Bot.* **51**(4): 807-812.
25. Rakesh Yonzone, Surajit Khalko, Sekhar Bandhyapadhyay, Satyajit Hembram, Gnanasing Jesumaharaja L , Hriday Kamal Tarafdar, **B. R. Sharma** (November, 2023). Correlation of major soil enzymes with population dynamics of *Ralstonia solanacearum* under different ginger based crop rotation system. *Agricultural Mechanization in Asia, Africa and Latin America*. **54** (11): 16339-16344.
26. Binoy Chhetri<sup>1</sup> , Sanjivani Karki , S. K. Mahato , S. Gurung , and **B.R. Sharma**. (May–August 2023). Management of weed diversity through organic mulching and alternative weed suppression practices on ginger (*Zingiber officinale*). *Current Horticulture* **11**(2): 64–66.
27. **B. R. Sharma**, Sajeed Ali, Anwesh Rai, H. K. Tarafdar (April—June 2024). Integrated Management of Rhizome Rot and Wilt Disease Complex of Ginger (*Zingiber officinale*) – A Review. *Environment and Ecology* **42** (2A) : 666 - 669.
28. Sajeed Ali<sup>1</sup> , **B. R. Sharma**<sup>1</sup> , Anwesh Rai<sup>1</sup> , H. K. Tarafder<sup>1\*</sup>, S. Baskey<sup>1</sup> , Moin Kabir<sup>2</sup> and Natasha Gurung<sup>3</sup> (December 2024). Eco-Friendly Management of Rhizome rot and Wilt complex disease of Ginger in Hill Zone of West Bengal with emphasis on bacterial wilt. *J.Mycopathol.Res.* **62**(4) : 787-790.

#### Research Articles / Short Notes:

**Popular Articles:**

1. Rai, S., Rai, A. and **Sharma, B. R.**(2000). In Kalimpong hills—Gladiolus is a subsidiary source of income, *Indian Horticulture*, Vol.45, No. 3 (Oct-Dec issue)
2. Gurung, Anita, **Sharma, B. R.**, Gurung, Sarad and Moktan, M. W. (2002). Darjeeling zilla ko suntala ma lagne fall chusne jhinga ani yasko roktham ka upaya haru. Published by Uttar Banga Krishi Viswavidyalaya (Hill Zone), Kalimpong
3. Gurung, Anita, **Sharma, B. R.**, Gurung, Sarad and Moktan, M. W. (2002). Suntala bagan ma gamu parne bivinna karya ko samai talika. Published by Uttar Banga Krishi Viswavidyalaya (Hill Zone), Kalimpong
4. Gurung, Anita, **Sharma, B. R.**, Gurung, Sarad and Moktan, M. W. (2002). Suntala ko fasal ma lagne kira ani rog haru bare jankari. Published by Uttar Banga Krishi Viswavidyalaya (Hill Zone), Kalimpong
5. Gurung, Anita, **Sharma, B. R.**, Gurung, Sarad and Moktan, M. W. (2002). Suntala ko bot chend parnekira ani yesko rogtham ka upaya haru. Published by Uttar Banga Krishi Viswavidyalaya (Hill Zone), Kalimpong
6. Gurung, Anita, **Sharma, B. R.**, Gurung, Sarad and Moktan, M. W. (2002). Darjeeling pahar ko suntala bagan haru ma lagne phed kuhune rog ani yesko rog tham ka upaya haru. Published by Uttar Banga Krishi Viswavidyalaya (Hill Zone), Kalimpong
7. **B.R. Sharma**, Sajeed Ali and Biswajit Patra (2015) Adhua Ko Mukhia Rog Ayum Kiraharuko Niyantran.
8. Kausik Roy, **B. R. Sharma** and Agniswar Jha Chakravarty (2015) Gramin Krishi Mausam Sewa.

**Books:****BOOK CHAPTERS:**

1. Gurung,A., **Sharma. B. R.**, Gurung, S.and Saha, B. C. (1999). A low cost and eco-friendly technique to rejuvenate foot rot and root rot infected mandarin orange plant. *Krishi Vigyan Kendra-A reality*. Edited by P. Das and B. S. Hansra and Published by Division of Agril. Extension, ICAR, New Delhi
2. **Sharma, B. R.** and Naipal, Nirmal (2003). Management of important diseases and pests in some major crops of Darjeeling Hills. In “*Cultivation and marketing of Agro-Horticultural Crops, Dairy Husbandary and Post Harvest Technology* “ Edited by S. Rai and A. Rai and published by Sister Provincial, Congregation of St. Joseph of Cluny, Kalimpong, West Bengal
3. Ghimiray, T. S., Laskar, N. and **Sharma, B. R.** (2004). Evaluation of some early duration rice varieties in mid-hills of West Bengal. *Stress Biology*. Edited by U. Chakroborty and B. Chakroborty, Narosa Publishing House, New Delhi, India.

**7. Ph.D Guidance**

AREA OF INTEREST	:		Fungi and Plant Infection and Plant Bacteriology
RESEARCH SUPERVISION	:	M.Sc (Ag. )	nil
RESEARCH SUPERVISION	:	Ph.D	02

**Doctoral Thesis**

1. Dr. B. R. Sharma, (2008). “Studies on Management of Ginger (*Zingiber officinale* Rose.) Rhizome Rot and Wilt Disease Complex”.

**Master Thesis**

1. Mr. B. R. Sharma, (1992). “Chemical Sterilization of the Substrate for the Control of Bio-contaminants During Spawn Run of Oyster Mushroom”.

**8. Any other relevant information (regarding achievement by the individual)**

- a. Identification & Characterization of pathogens of rhizome rot and wilt disease complex of ginger in the hilly region of West Bengal.
- b. Studied the relationship between soil physico-chemical properties on rhizome rot and wilt disease complex incidence of ginger.
- c. Worked on adjustment of sowing dates of garden pea with view to escape the crop from powdery mildew disease in the hilly region of West Bengal
- d. Studied the Influence of Crop Rotation on Disease Incidence and Population Dynamics of Ginger Wilt inciting Pathogen (*Ralstonia solanacearum*) under Organic Management Practice in Hill Zone of West Bengal.
- e. Studied the Productivity, Economics and Disease Incidence of Garden Pea (*Pisum sativum* L.) as Influenced by Sowing Date and Cultivars.