

ANG RINZING SHERPA, Ph.D.

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Date of Birth: 10th July, 1974
Gender: Male
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PERSONAL PROFILE

Dr Sherpa worked as a Junior Research Fellow from 12th Oct 2001-11th Oct 2003 and Senior Research Fellow from 12th Oct 2003 to 11th Oct 2006 in the Institute of Himalayan Bioresource Technology (Council of Scientific and Industrial Research), Palampur (H.P.) affiliated to Panjab University, Chandigarh. During his Ph.D., he worked extensively in the survey and molecular characterization of different orchid viruses infecting plant, disease management of the orchid viruses in India. The title of thesis was "Detection and molecular characterization of potexvirus (es) infecting some cultivated orchids". He was awarded Ph.D. degree from **Panjab University, Chandigarh, India** in 2006. From Jan 2007 to July 2009, Dr. Sherpa worked as a Postdoctoral Fellow in the **Molecular Plant Pathology lab, National Chung Hsing University, Taiwan** on project "**Development of transgenic plants resistance to broad spectrum tospoviruses through artificial microRNA approach**" using *Nicotiana benthamiana* as a model plant with Prof. Shyi-Dong Yeh, Professor, Department of Plant Pathology, NCHU, Taichung, 402, Taiwan (R.O.C). Presently, Dr. Sherpa is working as an assistant Professor in **Department of Botany, West Bengal State University, Kolkata, India- 700126 from August 2009** till this date. His main research interests are: Plant Molecular Virology, Molecular Biology, Biotechnology and genetic engineering leading towards productive outcomes leading to the integrated disease management and understanding the basic molecular biology. He is particularly interested in, Survey and study of genetic diversity of the viruses, genome analysis, study of various gene functions and their interaction, gene silencing through artificial microRNA or SiRNA, Virus induced gene silencing, plant-virus interactions, expression of genes/protein in *E. coli* and yeast, developing transgenic plants, developing plant virus based vector, fungal diversity, and other plant disease management related molecular research works.

EDUCATION AND QUALIFICATIONS

2007-2009	Postdoc Fellow from National Chung Hsing University, Taiwan (R.O.C.) on “Development of broad spectrum virus resistance transgenic plants against tospoviruses through expression of artificial microRNAs using tobacco as a model plant”
2001-2006	Ph.D. research entitled “Molecular characterization of Potexvirus (es) infecting some cultivated orchids” from Panjab University Chandigarh, India and IHBT (CSIR), Palampur, H.P. in 2006
1998-2000	M.Sc. (Botany) from Darjeeling Govt. College (North Bengal University) Subjects studied includes: Plant Physiology, Genetics, Microbiology, Tissue Culture, Biochemistry, Statistics, Plant Taxonomy and Mycology and Plant Pathology (specialization)
1993-1997	B.Sc. (Botany Hons.) from Tadong, Sikkim Govt. College (North Bengal University) Subjects studied includes: Botany (Hons.), Zoology, Chemistry and Additional English

PRESENTLY ENGAGED IN

1. Development of broad spectrum virus resistance transgenic plants against tospoviruses through expression of artificial microRNAs using tobacco as a model plant.
2. Detection, molecular characterization and development of VIGS vector based on geminiviruses.
3. Survey, Detection and molecular characterization of viruses infecting Large cardamom (*Amomum subulatum*).
4. Survey and molecular characterization of Potyviruses.
5. Small RNA profiling.

WORK EXPERIENCE

August 2009- till date	Working as a Assistant Professor, Department of Botany, West Bengal State University, Berunpukuria, Malikapur, 24 Parganas (North), Kolkata, India-700126
Jan 2007- July 2009	Molecular Plant Virology lab, Department of Plant Pathology, National Chung Hsing University, Taichung, Taiwan (R.O.C.) Postdoctoral Fellow
Oct 2003 – Nov 2006	Institute of Himalayan Bioresource Technology (CSIR), Palampur (H.P.), India Senior Research Fellow UGC-CSIR (NET)
Oct. 2001– Oct 2003	Institute of Himalayan Bioresource Technology (CSIR), Palampur (H.P.), India Junior Research Fellow UGC-CSIR (NET)

PUBLISHED/ACCEPTED PAPERS

1. B. Roy, B. Chakraborty, A. Mitra, S. Sultana and **A.R. Sherpa**. 2015. Natural occurrence of Bhendi yellow vein mosaic virus on *Litsea* spp. in India New Disease Report (Plant Pathology). 31, 1.

2. Adhiraj Dasgupta, **Ang Rinzing Sherpa** and Krishnendu Acharya. 2014. Phytochemical screening and antioxidant capacity of polyphenolrich fraction of *Pleurotus flabellatus*. *Journal of Chemical and Pharmaceutical Research*. 6(5): 1059-1065
3. **A. R. Sherpa**, V. Hallan, and A. A. Zaidi. 2012. *In Vitro* expression and production of antibody against *Cymbidium mosaic virus* coat protein. **Indian Journal of Virology**. 23 (1): 46-49, DOI: 10.1007/s13337-012-0069-0
4. **Ang Rinzing Sherpa**, Vipin Hallan, Promila Pathak and Aijaz Asghar Zaidi. 2007. Complete nucleotide sequence analysis of *Cymbidium mosaic virus* Indian isolate: further evidence for natural recombination amongst potexviruses. **Journal of Biosciences** 32 (4): 663-669.
5. **A. R. Sherpa**, T. K. Bag, Vipin Hallan, A. A. Zaidi. 2007. Incidence of *Cymbidium mosaic virus* (CymMV) in Sikkim Himalayan Orchids. **Indian Phytopathology**. 60(1): 133-136.
6. Manoj K Singh, **A. R. Sherpa**, Vipin Hallan and A. A. Zaidi. 2007. A potyvirus in *Cymbidium* spp. in northern India. Accepted in **Australasian Plant Pathology**. 2: 11-13.
7. **Ang Rinzing Sherpa**, Vipin Hallan, Promila Pathak and Aijaz Asghar Zaidi. 2006. Characterization of the Coat Protein Gene of *Cymbidium mosaic virus* Isolates from India. **Journal of Phytopathology** 154: 275–280.
8. **A. R. Sherpa**, T.K. Bag, Vipin Hallan and A. A. Zaidi. 2006. The detection of *Odontoglossum ringspot virus* in orchids from Sikkim, India. **Australasian Plant Pathology** 35: 69-71.
9. **A. R. Sherpa**, V. Hallan and A. A. Zaidi (2004). Cloning and sequencing of coat protein gene of an Indian *Odontoglossum ringspot virus* isolate. **Acta Virologica** 48, 267-269.
10. **A. R. Sherpa**, V. Hallan, R. Ram, S. P Vij, P. Pathak, I.D. Garg and A. A. Zaidi. 2003. First report of *Cymbidium mosaic virus* (CymMV) in orchids from India (2003). **Plant Pathology**, Vol 52, 788.
11. Krishnendu Acharya, Binod Pokhrel, **Ang R. Sherpa**, Om N. Katel, Rupa Acharya. 2001. Inhibition of Nitric oxide synthesis: An important step in Plant pathogenesis. **Bulletin of Pure and Applied Sciences**. 20 (1): 7-11.
12. K. Acharya., O. N. Katel., B. Pokhrel., **A. R. Sherpa.**, R. Acharya. 2001. Biocontrol of Blister Blight of Tea by *Pseudomonas fluorescense*. **Journal of Hill Research**. 14 (2): 110-111.

NATIONAL/ INTERNATIONAL CONFERENCES/ SEMINARS/ SYMPOSIA

1. Distribution, Identification and characterization of Orchid viruses infecting Orchids. A.R. Sherpa. National Dialogue on Orchid Conservation & Sustainable Development for Community Livelihood. National Research Centre for Orchid, Gangtok. 08-03-2013
2. Genome characterization of a Indian isolate of *Cymbidium mosaic virus*. **A.R. Sherpa**, V. Hallan, and A. A Zaidi. Satellite Meeting on Viruses of Ornamentals and Temperate Fruit Crops, at IHBT(CSIR), Palampur (H.P.), India (Dec 17-18, 2007)
3. Incidence and genome Characterization of *Cymbidium mosaic virus* Indian isolate. **A.R. Sherpa**, V. Hallan, P. Pathak, S. P. Vij and A. A. Zaidi. 8th National Seminar, Orchid conservation Improvement and commercialization and orchid show (March 18-20, 2006).
4. Detection and characterization of *Cymbidium mosaic virus*. **A.R. Sherpa**, V. Hallan, and A. A Zaidi. तृतीया अखिल भारतीय विज्ञान सम्मेलन १९-२१ फरवरी, २००४. राष्ट्रीय भौतिक प्रयोगशाला सभागार, समीप पूसा गे, नई
5. Detection of *Cymbidium mosaic virus* and *Odontoglossum ringspot virus* **A. R. Sherpa**, Vipin Hallan, S.P.Vij, Promila Pathak, I.D. Garg and A.A.Zaidi. National Orchid show & symposium

on “Orchid Research, Production, and Marketing Strategies” at CSIR Science center, New Delhi (Nov 8-10, 2002) organized by The orchid society of India (TOSI).

AWARDS

- Senior Research Fellowship (SRF) awarded by UGC-CSIR, India (2003).
- Junior Research Fellowship (JRF) awarded by UGC-CSIR, India (2001).
- National eligibility for lectureship (NET) awarded by University Grants Commission-Council of Scientific and Industrial Research (UGC-CSIR), India (2001 and 2002).