

## Biodata of Jyotsana Sharma

**NAME** : Dr. (Mrs.) Jyotsana Sharma

**PRESENT DESIGNATION:** Retd. Principal Scientist (Plant Pathology) and Former Acting Director

### EDUCATION

Born on October 24, 1961, completed **under graduation** from Govt. Degree College, Solan (HP) with 70.83%; **M.Sc.** (with honours) in Plant Pathology from HPKV, Palampur, Solan campus in 1984 (Grade point 3.93/4), and **PhD.** in Plant Pathology from IARI, N. Delhi in 1989 (Grade point 3.91/4).

### PROFESSIONAL EXPERIENCE

Joined ICAR as Scientist in June 1989 with **first posting at Central Potato Research Station Jalandhar (ICAR-CPRI, Shimla), where I joined in May 1990 after Agri. Research Scientist training and continued to serve the institute till April 10, 2006**, did research on soil and tuber borne diseases of potato.

Thereafter I **joined ICAR- National Research Centre on Pomegranate at Solapur (MS), on April 24, 2006** as Sr. Scientist, was promoted to Principal Scientist on July 2007 and am working till date; also **served this Centre as Director (Acting), from Jan. 1, 2018 to April 27, 2021.**

**STUDENTS GUIDED:** In last 5 years guided 7 undergraduate and in last 3 years guided 8 postgraduate students.

### AWARDS/ RECOGNITION:

1. **'Dalimb Ratna Award-2016'** Conferred by Akhil Maharashtra Pomegranate Growers Research Association for valuable contributions in development of model for management of bacterial blight disease (Telya) plant health management systems in pomegranate crops in all pomegranate growing states of India.
2. Conferred **'Fellow of CHAI-2019.** by Confederation of Horticulture Association of India, New Delhi for contribution and commitment to the furtherance of Horticulture.
3. Conferred **Fellow of Society for Promotion of Horticulture for the year 2021-22**, by Society for Promotion of Horticulture, IIHR, Bengaluru, Karnataka India, in recognition of contributions in the field of Horticulture- Plant Pathology
4. **Narinder Nath Mohan Memorial Gold Medal** for outstanding performance in MSc.
5. **Awarded Dr. S Ramanujam Memorial Certificate of Appreciation 2003-04**, by ICAR-CPRI, Shimla, for significant contributions in bringing potato revolution in India.
6. **Vasantrao Naik Award** for Outstanding Research and Application in Dryland Farming Systems - ICAR-National Award for Excellence in Agriculture Research 2021 (Associate)

### PATENTS OBTAINED:

1. Patent for 'A Process for Preparing a biofertilizer cum biofungicidal composition with *Aspergillus niger* strain AN27' Notified in 'The Gazette of India', November 29, 2003 :page 4871. (Sen Bineeta, **Sharma Jyotsana**, Majumder Shahana, Mukherjee Krishanu, Sanjeev Kumar, Angappan Kathithachalam, Mondal Goutam, Chattopadhyay Chirantan)

**(This product is in market even today sold by CADAgro Division of Cadila Pharmaceuticals Ltd, Gujarat (Part of my PhD work. It is sold as Kalisena for seed and soil application for management of soil borne diseases of field and horticulture crops)**

2. Patent for Bio-formulation for Potassium fertilizer supplement in Pomegranate and process of preparation thereof. Patent No 403302 February 23, 2018 ( Maity Ashis, Pal Ram Krishna and Sharma Jyotsana) **(This is the first bioformulation with *Penicillium pinophilum* . It is in market and sold by Capsber Global Agro Pvt. Ltd (Earlier Natura Crop Care), Bengaluru, Karnataka, as ‘Sonaar’ It is K and P supplement, reduces P and K input and also improves plant health. One more company Bharati Green Tech, Satara Maharashtra has signed MoU recently)**

#### **NEW VARIETY RELEASED**

Two New Biofortified Pomegranate varieties ‘Solapur Lal’ and ‘Solapur Anardana’ released and also registered with NBPGR (Co-developer)

#### **MOST SIGNIFICANT RESEARCH AND OTHER ACHIEVEMENTS**

- Identified of potential biocontrol agent ‘*Aspergillus niger* strain AN27’ for wilt pathogens.
- Production of disease free nucleus seed of potato
- Standardised Soil solarisation promising technology for disease free potato production
- Management of bacterial blight and other economically important diseases of pomegranate like wilt, Fruit spots and rots.
- Most recently developed, successfully demonstrated, ‘Stem solarisation: an eco-friendly, economical and effective technology to control bacterial blight’ in 4 farmers’ orchards. If followed in community approach has the potential to eradicate the blight pathogen.
- Launched **Social Media Platform ‘Dalimb Mitra’** in March 2021 which was inaugurated by Hon’ble DG (Hort.) Dr AK Singh. Farmers can ask their queries in their local language and advisories are given every fifteen days.

**PUBLICATIONS:** Several research publications and technical /Extension bulletins, brochures and videos for the benefit of farmers in English, Marathi, Hindi

<b>Summary of Publication (Numbers)</b>		
<b>S. No.</b>	<b>Publication Type</b>	<b>Number</b>
1.	Research articles in research journals	76
2.	Book chapters and Review papers	40
3.	Res. Papers presented in symposia, conferences	40
4.	Poster presentations	60
5.	E-Publications	20
6.	Technical / extension bulletin/folders	48
7.	Technical/Popular articles	43

8.	Video films	2
9.	DD Kisan programs	6
10.	Souvenir of National + International Seminar	2+1
11.	Frequently Asked Questions (Hindi, English, Marathi) Bulletin	3
12.	Gene sequences submitted	27

**OTHER RECOGNITIONS:**

- Subject Matter Specialist for HELLO KISAN, Doordarshan (DD) Kisan
- Expert member of the Accreditation Panel for the Certification of Tissue Culture Production Facilities (TCPFs) and accreditation of Test Laboratories under the National Certification System for Tissue Culture Raised Plants (NCS-TCP), Department of Biotechnology, Ministry of Science and Technology, Government of India
- Member National Editorial Board of Indian Journal of Horticulture published by Indian Academy of Horticultural Sciences (IAHS)
- Reviewer for Indian Phytopathology (Since 2021)
- Reviewer for Scientia Horticulturae. And some other Journals

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