



**Dr. Jalaja S. Kumar**

**Director**

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### **Areas of research interest**

Plant breeding- Mulberry breeding and physiology

### **Academic Qualifications**

- B.Sc. (Chemistry, Botany and Zoology )
- M.Sc. (Botany)
- Ph.D, (Mulberry Physiology & Breeding)

### **Experience /Academic Position:**

1. 2020- till date: Director, CMER&TI, Lahdoigarh, Jorhat
2. 2016-20: Scientist - D at RSRS, Kodathi, Bangalore (3 years 5 months)
3. 2014-16: Scientist - D at CSR&TI, Berhampore (2 years 3 months)
4. 2010-14: Scientist - C at CSR&TI, Berhampore (3 years 11 months)
5. 2006-2010: Scientist - C at CSR&TI, Mysore (3 years 8 months)
6. 1996-2006: Senior Research Officer at CSR&TI, Mysore (10 years 2 months)
7. 1987-96: Senior Research Assistant at CSR&TI, Mysore (8 years 8 months)
8. 1986-87: Senior Research Assistant at Technical cell, NSSP Head office, Bangalore (1 year)
9. 1986: Senior Research Assistant at P2 basic seed farm, Gavimata National silkworm seed project Central Silk Board (4 months).

### **Awards / Honour / Fellowship:**

1. Dr. M.N. Ramaswamy Memorial prize by The National College Basavanagudi Bangalore (1987).
2. Late Rao Sahib B Munivenkatappa Endowment by the National College Basavanagudi Bangalore (1984).
3. Late Dr. Marutvakudi R Venkataramana Sharma Endowment by the National College Basavanagudi Bangalore (1984).
4. Central college Botany Department Diamond Jubilee Commemoration Gold medal by Bangalore University (1986).
5. Dr. D.M. Gopinath memorial Gold Medal by Bangalore University (1986).
6. Prof. D. Govindappa D. Araikal Gold Medal by Bangalore University (1986).
7. Seth Baldeodas Shah Award by Seth Baldeod as Shah charitable trust (2000).
8. Best paper presentation to mark golden jubilee of Central silk board by CSR&TI, Mysore (2000).
9. Best poster presentation during National conference on strategies for sericulture research and development by CSR&TI, Mysore (2000).

### **Technologies, Varieties, Products, Concepts, Methodologies developed:**

- **Evaluated and popularized of mulberry variety V-1:** Presently the most popular variety in South India and more than 80% of sericulturists in South India are using V-1.
- **Evaluated and identification of Sahana (K2 x Kosen) for cultivation in coconut plantation:** The variety has been exploited commercially by some sericulturists having coconut plantation.
- **Evaluated and identified V-1 and S-13 as the most suitable varieties for tree cultivation:** Presently a vast area in South India with water scarcity has adopted tree cultivation with V1 variety.

**Papers presented in conferences:** More than 20.

**Manuals prepared:** 2

**Papers published in proceedings:** 6 Nos.

**Popular articles:** 8 Nos.

**Students guided for M.Sc./PGDS:** 10

**Books translated:** 8 Nos.

**Number of trainings/workshops/Symposium/Conferences attended:** > 50 Nos.

**Publications:** More than 60 papers were published in both National and International journals

#### **Important publications:**

- B.N. Susheelamma, R.G. Geetha Devi, M.S. Jolly, **Jalaja S. Kumar**, Kshama Giridhar, K. Sengupta and Meera Varma. (1989). Effect of different mulberry varieties on silkworm, *Bombyx mori*. L. *Insect Sci. Applic.* **10(3)** : 359-363.
- Mogili, T., Susheelamma, B.N., Sengupta, K., **Jalaja S. Kumar**, and Suryanarayana, N. (1990) Physiological effects of stomatal characters in mulberry at three ploidy levels. *Sericologia*, 31 (2): 305-307.
- B.N. Susheelamma, **Jalaja S. Kumar**, T. Mogili, K. Sengupta, M.N. Padma and N. Suryanarayana, (1992). Evaluation of techniques of screening for drought resistance in mulberry. *Sericologia*, 32(4):609-614.
- A. Sarkar, **Jalaja S. Kumar** and R.K. Datta (2000). Gradual improvement of mulberry varieties under irrigated conditions in south India and the optimal program for varietal selection in the tropics. *Sericologia* **40(3)** : 449-461.
- A.M. Babu, **Jalaja S. Kumar**, Vineet Kumar, A. Sarkar and R.K. Datta (2002). Tropic Failure of *Phyllactinia corylea* contributes to mildew resistance of mulberry genotypes. *Mycopathologia*, **156** : 207-213.
- N.R. Singhvi, J. Kodandaramaiah, **Jalaja S. Kumar** and M. Rekha (2006). Effectiveness of Phalda on growth and leaf yield in mulberry. *Plant archives* 6(2) : 757-758

- Jalaja S. Kumar** and Rama Rao, D.M. (2008) Characterization of screen mulberry genotypes for their leaf quality and bio-assay with silkworm *Bombyx mori* L. *Sericologia*, 48(1): 85-93.
- Jalaja S.Kumar** and Suresh Kumar, N..(2009) Evaluation of nutritional value of different mulberry varieties on silkworm, *Bombyx mori*. L. *Green Farming* 2(13) : 960-962.
- Babu, A.M., **Jalaja S. Kumar**, P.K. Mishra., Dayakar Yadav,B. and Qadri,S.M.H.(2012) Root-knot development in mulberry infested with *Meloidogyne incognita*. *Archives of phytopathology and plant protection* 1 : 1-11.
- Singhvi,N.R. and **Jalaja S.Kumar** (2013) Growth dynamics in some mulberry genotypes during water deficit stress *Internatl. J. Plant Sci.* 8(2): 371-376.
- Sudhakar, P; Krishnappa, B. L; **Jalaja S. Kumar** and V. Sivaprasad (2018). Impact of Cluster Promotion Programme (CPP) on the Bivoltine cocoon production under Shapur cluster, Kolar, Karnataka. *Green Farming* Vol 9(1): 129-133.
- Jalaja S. Kumar**, T. Mogili and A. Sarkar, (2010). Growth analysis of different mulberry varieties in different growth stages. *Indian J. Seric.*, 49(2): 175-183.
- Jalaja S.Kumar** and Bindroo, B.B.(2012) Genetic variability and character association in eight mulberry ( *Morus* sp.) *Indian Agric.* 56(1 &2) : 47-50).
- Jalaja S.Kumar** , Suresh Kumar, N..and Bindroo, B.B.(2012) Evaluation of some mulberry varieties through bioassay. *Indian Biologist* 44(1):53-55.