

1. Full Name (in Block letters) : Dr. P. C. SANTHA
2. Designation : Scientist-D
3. Department/Institute/University : CSRTI, Mysore.
4. Employment No. : 04028
5. Date of Birth : 04.07.1961
6. Sex : Female
7. Education

Name of the University	Degree passed	Year of passing	Subject with specialisation	Class/Div.
Calicut University , kerala	B.Sc.	1981	Zoology, Botany & Chemistry	Distinction
Calicut University , kerala	M.Sc.	1983	Zoology (Entomology)	First class
Calicut University , kerala	Ph.D.	1988	Zoology (Insect Endocrinology, Entomology)	Awarded

8. Positions held/Research Experience in various institutions:

Organisation/ Institute	Capacity/ Designation	Duration	Subject/ Area
SSTL, Kodathi, Bangalore	SRA	10.10.1990 to 9.10.2000	Silkworm Seed Pathology
SSTL, Kodathi, Bangalore	SRO Scientist-C	10.10.2000 to 9.10.2006 10.10.2006 to 19.06.2007	Silkworm Seed Pathology Silkworm Seed Technology
SSTL, Kodathi, Bangalore	Scientist-C	20.06.2007 to 30.4.2012	Silkworm Seed Pathology
CSRTI, Mysore	Scientist-C	1.5.2012 to 31.12.2012	MBL
CSRTI, Mysore	Scientist-C & Scientist-D	1.1.2013 to 31.12.2016 1.1.2017 to 18.7.2018	TVDC TVDC
CSRTI, Mysore	Scientist-D	19.7.2018 onwards	Silkworm Pathology

9. Memberships/Fellowships: Life member of NASSI: Life member of NASSI, National Academy of Sericultural Sciences, Bangalore with Regd. No. 77/2001-02.

10. Patents : 1No. on “Formulation of silkworm bed disinfectant to control diseases in silkworm crops” under NRDC, Govt. of India , New Delhi with Regd. No. IPR/4.18.6/10046 dated 15.11.2010

- Total Publications : 33 Nos.
- Research Papers : 22 Nos.
- Conference/Seminar : 11 Nos.

LIST OF PUBLICATIONS

INTERNATIONAL PUBLICATIONS

1. **P.C. Santha** and V.S.K.Nair (1986) Age-dependent responses of last instar larvae of *Spodoptera mauritia* to precocene II. **Physiological Entomology** 11, pp. 335-341.
2. **P.C.Santha** and V.S.K.Nair (1987) Larval-pupal transformation of *Spodoptera mauritia* (Lepidoptera) : Effects of a juvenile hormone analogue. **Zoological Anzeiger** 218, 5/6 pp.379-384.
3. **P.C. Santha** and V.S.K.Nair (1988) Precocene–induced abnormalities in F1 generation of *Spodoptera mauritia* (Lepidoptera). **Zoological Anzeiger** 220, 1/2 pp.104-110.
4. **P.C.Santha** and V.S.K.Nair (1991) Precocene–induced changes in the cerebral neurosecretory cells of *Spodoptera mauritia* Bois. (Lepidoptera: Noctuidae).**Zoological Anzeiger** 226, 3/4 pp.163-173.
5. T.O. Sasidharan, R.N. Singh, M.V. Samson, A. Manjula, **P.C.Santha** and Chandrashekaraiiah (1994). Spore replication rate of *Nosema bombycis* (Microsporidia : Nosematidae) in the silkworm, *Bombyx mori* L in relation to pupal development and age of moths. **Insect Science Application** Vol. 15, No 4/5:427 - 431.
6. R.N. Singh, T.O.Sasidharan, B.P.Nair, M.V.Samson and **P.C. Santha** (1995). Effect of *Nosema bombycis* infection on some reproductive traits and spore replication in the silkworm, *Bombyx mori*. **Bulletin of Sericulture Research** Vol. 6: 65-69.
7. **P.C. Santha**, R.N.Singh, R.N.Dutta and Ravindra Singh (2012) Decol - A new general disinfectant effective for controlling secondary pebrine contamination in silkworm crops. **Munis Entomology & Zoology**. Vol.7. No.2. pp.749-753.

NATIONAL PUBLICATIONS

1. **P.C. Santha**, P. Sankara Narayan and V.S.K.Nair (1987) Precocene-induced effects on pupal-adult development of *Spodoptera mauritia* Bois.**Geobios new reports** 6, pp.35-38.
2. R.N. Dutta, S.K. Patnaik, S.C. Johri, Y.V. Ramnjaneyulu and **P.C.Santha** (1993). Role of vegetation on uzifly control in tasar culture. **Recent Advances In Uzifly Research** pp.247-251.
3. M.V. Samson, T.O. Sasidharan, R.N. Singh, **P.C. Santha**, V. Suryanarayana, A. Manjula and Chandrashekaraiiah (1995). Efficacy of the disinfectant ‘Disfect-S’ against pathogens of the silkworm, *Bombyx mori*. **Madras Agriculture Journal** 82(2): 93-98.
4. M.V. Samson, **P.C. Santha**, R.N.Singh and T.O. Sasidharan (1999) A new microsporidian infecting *Bombyx mori* L.**Indian Silk**Vol 37(10)Feb.10-12.
5. M.V. Samson, **P.C. Santha**, R.N.Singh and T.O.Sasidharan (1999) Microsporidian spore isolated from *Pieris* sp.**Indian silk** vol.38(7)Nov.5-8.
6. **P. C. Santha**, T. O. Sasidharan, R. N. Singh, A. G. K. Daniel and T. M. Veeraiah (2001). Identification of intermediary stages of *Nosema bombycis* for diagnosis of pebrine- A new approach. **Indian Silk** Vol 40(6) Oct.pp.13-14.
7. T.O. Sasidharan, R.N. Singh, **P.C Santha**, T.M.Veeraiah and M.V.Samson (2002). Efficacy of a new botanical based silkworm bed disinfectant for disease management in silkworm crops. **Advances in Indian Sericulture Research**. CSR&TI, Mysore. Eds.S.B.Dandin and V.P. Gupta pp.259-263.
8. R.N. Singh, T.O. Sasidharan, **P.C. Santha**, T.M. Veeraiah and A.Manjula (2002). Silkworm seed production: Is use of pebrinised male moths safer? **Indian Silk** Vol: 41 (5) page 9-10.
9. R.N.Singh, **P.C.Santha**, T.O. Sasidharan, A.Manjula and C.K. Kamble (2004) Delayed mother moth testing for effective detection of pebrine. **Indian Silk** Vol: 43 (1) pp. 7-9.

10. R.N. Singh, T.O. Sashidharan, **P.C. Santha**, A.G.K. Daniel and C.K. Kamble (2005). Role of temperature on multiplication and sporulation of *Nosema bombycis* in silk moth, *Bombyx mori* L. **Karnataka Journal of Agricultural Sciences** 18(2) : 398-400.
11. R.N.Singh, A.G.K. Daniel, **P.C.Santha**, C.K.Kamble, S.B. Magadam, and T.O.Sasidharan (2006). Impact of low pebrine infection in *B.mori* through successive generations. **Indian Silk** Vol 45(2): 9-10.
12. **P.C. Santha**, S.K.Bhargava, S.S.Sindagi and C.K.Kamble (2007). Bacterial flacherie of silkworm, *Bombyx mori* and its control by the application of antibiotics. **Journal of Experimental Zoology**,India.Vol.10,JanNo1,pp.1-7.
13. **P.C.Santha**, S.K.Bhargava, A.Manjula, G.Vemananda Reddy, C.R.Hegde and C.K.Kamble (2007). Suitable chilling schedules for preservation of polyhybrids of silkworm (*Bombyx mori* L.) eggs. **Journal of Experimental Zoology**, India.Vol.10,No.2, pp.321-324.
14. S.K. Bhargava, S.S Sindagi, **P.C. Santha** and C.K. Kamble (2008). Nutritional management of silkworm (*Bombyx mori* L.) through food supplements for quality improvement in sericulture- A review. **Bulletin of Indian Academy of Sericulture**. Vol.12 (1) pp.1-19.
15. R.N.Singh, **P.C. Santha**, S.S.Sindagi and H.K.Basavaraja (2010). Efficacy of a new silkworm bed disinfectant "RAKSHAK"under field condition. **Journal of Sericulture and Technology**, NASSI, India.Vol.1,No.1,pp70-73.

PUBLICATIONS IN NATIONAL / INTERNATIONAL CONFERENCES / SYMPOSIA / SEMINARS.

1. Sam Mathai, **P.C. Santha** and V.S.K. Nair (1989) Antigonadotropic effects of precocene II in *Spodoptera mauritia* Boisd. (Lepidoptera:Noctuidae). **Proceedings of the Indian National Science Academy**B55,No.2 pp.91-96.
2. R.N. Dutta, R.G. Geetha Devi, S.N. Pallavi and **P.C. Santha** (1991). Some ecological bases for feeding behaviour of late stage silkworm, *Bombyx mori* L. larvae. **10th National Symposium on Life Sciences**. Abstract 57, pp.43.
3. R.N.Singh, T.O.Sasidharan, M.V.Samson, B.P.Nair and **P.C.Santha** (1995) Replication of *Nosema bombycis* Nageli spores in the silkworm, *Bombyx mori* L in relation to development of pupae and age of moths and its impact on successive generation. **Current Technology Seminar**, 25-26 Oct.CSR & TI, Berhampore (W.B).Abstract 4.
4. **P.C. Santha**, R.N.Singh, T.O.Sasidharan and M.V.Samson (1995). Cross infectivity of microsporidians from lepidopterans to silkworm, *Bombyx mori* L. and its occurrence in the progeny population. **Current Technology Seminar on Silkworm Seed Technology** 17-18 Nov., SSTL, Kodathi, Bangalore Abstract 43.
5. R.N.Singh, M.V.Samson, T.O.Sasidharan and **P.C.Santha** (1998) Studies on the infectivity and rate of multiplication of *Nosema bombycis* in relation to different temperature in silkworm, *Bombyx mori* L. **Current Technology Seminar on Silkworm Seed Production** 10th February, SSTL, Kodathi, Bangalore pp.23.
6. T.O.Sasidharan, R.N Singh, **P.C Santha**, T.M.Veeraiah and M.V. Samson (2000) Efficacy of a new botanical based silkworm bed disinfectant for disease management in silkworm crops. **National conference on strategies for Sericulture Research and Development**. 16-18 November at CSR&TI, Mysore page No. 64.
7. R.N.Singh, T.O.Sasidharan, **P.C. Santha**, A.Manjula, B.S.Angadi and C.K.Kamble (2003). Impact of usage of *Nosema bombycis* Nageli infected male silk moth, *Bombyx mori* L. on reproductive performance. **Proceedings of National Seminar on Silkworm Seed Production**.,SSTL, Kodathi,Bangalore and Nssp,CSB June pp.95-99.

8. T.O.Sashidharan, R.N Singh, **P.C. Santha**, A.G.K. Daniel and C.K. Kamble (2003). Influence of temperature on multiplication and sporulation of *Nosema bombycis* in silk moths. **Proceedings of National Seminar on Silkworm Seed Production**, SSTL, Kodathi, Bangalore & Nssp, CSB, June pp.101-103.
9. **P.C. Santha**, S.K.Bhargava, A.Manjula, G.Vemananda Reddy, C.R.Hegde and C.K.Kamble (2006). Suitable chilling schedules for silkworm eggs of polyhybrids of *Bombyx mori*.L. **National Conference on “New strategies in Research & Development of Sericulture- Indian Perspective.”** 9-10th March at Bangalore University, Bangalore pp.59.
10. R.N.Singh, **P.C. Santha**, S.S.Sindagi and H.K.Basavaraja (2011). Efficacy of a new silkworm bed disinfectant “RAKSHAK” under field condition. **National conference on Sericulture Innovations: Before and Beyond.** 28-29 January 2011. CSRTI, Mysore. Golden Jubilee conference. Abstracts. pp. 96-97.
11. A. R. Narasimha Nayaka., G. Mallikarjuna., **P. C. Santha** and V. Sivaprasad (2018). Automated disinfection of silkworm rearing house. **National conference on ”Seri-Biomics: Challenges, Innovations and Solutions”** 15-17 February 2018. pp.90.

Project(s) submitted/being pursued/carried out by Investigator

Sl. No	Title of the project	Funding agency	Duration
1	Development of control measures for microsporidians of silkworms. (ARP 001)	CSB	1992 to 1997
2	Studies on microsporidiosis of silkworm with major emphasis on control and preventive measures. (ARP 002)	CSB	1997 to 2001
3	Studies on Microsporidiosis of Silkworm, <i>Silkworm mori</i> L (ARS 3195)	CSB	2000 to 2003
4	Studies on the embryonic growth and development of new silkworm breeds of <i>Bombyx mori</i> L (APS 3277)	CSB	2003 to 2005
5	Standardisation of feed quantum for improvement of reproductive traits in new silkworm breeds of <i>Bombyx mori</i> L (APS 3350)	CSB	2005 to 2006
6	Studies on prevention and control of microsporidians in silkworm <i>Bombyx mori</i> L. through disinfection of mulberry leaves(ARP 3387)	CSB	2006 to 2008
7	Development of new bed disinfectant for management of diseases in silkworm crops (ARP 3386)	CSB	2006 to 2008
8	Studies on microsporidiosis of silkworm, <i>Bombyx mori</i> L. and its management (ARP 3406)	CSB	2008 to 2011
9	Maintenance of polyvoltine silkworm breeds (SIM 0009)	CSB	2012 to 2013
10	Pre-authorisation field trials of L14 X CSR2, a polyvoltine x bivoltine hybrid with superior fiber quality (AIB 3488)	CSB	2013 to 2015
11	Large scale in house evaluation of new silkworm breeds/hybrids of <i>Bombyx mori</i> L. and their validation, developed at CSRTI Mysore (SPR 0019)	CSB	2013 to 2018
12	Validation trials of automated disinfection of silkworm rearing house (APR3550)	CSB	2016 to 2017
13	Development of technology for production of organic silk (PPA3552)	CSB	2015 to 2018
14	Evaluation of Cauvery Gold (MV1XS8): An improved cross breed for cocoon productivity and silk quality (AIB01001 M1)	CSB	2015 to 2018
15	Silkworm disease monitoring of seed and commercial crop rearing of South Indian States.(ARP3519)	CSB	2014 to 2018