

BIODATA

1. Name and full correspondences address : A.R.PRADEEP
2. E-mail(s) and contact number(s) : arpradeepnair@gmail.com
3. Institution : CENTRAL SERICULTURAL RESEARCH & TRAINING INSTITUTE, BERHAMPORE (WB)
4. Date of Birth : 20/MAY/1964
5. Gender (M/F/T) : M
6. Category (Gen/SC/ST/OBC) : GEN
7. Whether differently able (Yes/No) : NO

8. Academic Qualification (Undergraduate onwards)

#	Degree	Year	Subject	University/ Institution	% of Marks
1	BSc.	1984	Zoology	University of Kerala	63%
	MSc.	1986	Zoology	Mahatma Gandhi University, Kerala	65%
	Ph.D	1995	Zoology	University of Calicut, Kerala	--
2	DBT Overseas Associateship	2008	Proteomics	Texas A&M University, USA	--

9. Ph.D Thesis title, Guide's Name, Institution/Organization/University, Year of Award.

Title	Guide Name	University	Year of award
Effects of juvenile hormone analogues and antijuvenile hormone agents on the brown planthopper <i>Nilaparvata lugens</i> (Homoptera: Delphacidae)	Professor V. S. Krishnan Nair	University of Calicut, Kerala	1995

10. Work experience (in Chronological order)

#	Position held	Name of the Institute	From	To	Pay Scale (varied time to time)
1	Junior Research Fellow	University of Calicut, Kerala	1987	1990	Rs.800/-

2	Senior Research Fellow	University of Calicut, Kerala	1990	1992	Rs.1200/-
3	Senior Research Assistant	Central Tasar Research & Training Institute, Ranchi	1992	2002	Rs.1640-60-2600-EB-75-2900
4	Senior Research Officer/ Scientist B	Seribiotech Research Laboratory, Bangalore	2002	2005	Rs.8000-275-13500
5	Scientist C	Seribiotech Research Laboratory, Bangalore	2008	2014	Rs.10000-325-15200
6	Scientist D	Seribiotech Research Laboratory, Bangalore	2014	2021	Rs.27300/+ Rs.7600 GP Rs.109100+ allowances (as on Jan 2021)
7	Scientist D	Central Sericultural Research & Training Institute, Berhampore	Feb 2021	Contd	Rs.109100+ allowances

11. Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant.

#	Name of Award	Awarding Agency	Year
1	Junior Research Fellowship	DST	1987
2	Senior Research Fellowship	CSIR	1991
3	Overseas Research Associateship at Texas A&M University, USA	DBT	2008

12. Publications (List of papers published in SCI Journals, in year wise descending order; 2000- 2021)

	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Prabhuling H Shambhavi , Pooja Makwana, A.N.R. Pradeep, K. Vijayan and R. K. Mishra	Release of mediator enzyme β -hexosaminidase and modulated gene expression accompany hemocyte degranulation in response to parasitism in the	Biochemical Genetics	Published on line in Feb 2021	NA	2021

		silkworm <i>Bombyx mori</i>				
2.	Shambhavi HP, P. Makwana, B. Surendranath, K.M. Ponnuvel, R.K. Mishra and A.R. Pradeep	Phagocytic events, associated lipid peroxidation and peroxidase activity in hemocytes of silkworm <i>Bombyx mori</i> induced by microsporidian infection.	Caryologia	73	93-106	2020
3.	Wazid Hassan, B. Surendra Nath, K M. Ponnuvel, R K. Mishra and A R. Pradeep	Evolutionary diversity in the intracellular microsporidian parasite <i>Nosema</i> sp.infecting wild silkworm revealed by IGS nucleotide sequence diversity	Journal of Molecular Evolution	88 https://doi.org/10.1007/s00239-020-09936-2	345-360	2020
4.	Varada B, Pradeep AR, Awasthi AK and K M Ponnuvel	Modulation of NPV gene expression pattern and retention of RNAi- based antiviral activity in inbred transgenic silkworm	International Journal of Tropical Insect Science	40	483-91	2020
5.	Shambhavi Prabhuling Hungund, A. R. Pradeep*, Pooja Makwana, Chandrashekhar Sagar and Rakesh K. Mishra	Cellular defence and innate immunity in the larval ovarian disc and differentiated ovariole of the silkworm <i>Bombyx mori</i> induced by microsporidian infection.	Invertebrate Reproduction & Development	DOI: 10.1080/07924259.2019.1669727		2019
6.	Shambhavi PH, Pooja M, Pradeep AR and RK Mishra	Immune suppression being the cause for establishment of <i>Nosema bombycis</i> parasitism in the silkworm <i>Bombyx mori</i> .	Innovative Farming	4	155-161	2019
7.	Aravind, S., Sahar Ismail, Hariraj, K.S. Tulsi Naik, A.R. Pradeep, R.K Mishra, Subhash. V. Naik	Comparative analysis of post cocoon characters associated with filament length between multivoltine races and multi x bivoltine cross breeds of the silkworm <i>Bombyx mori</i>	Innovative Farming	4	123-128	2019
8.	Varada B, Pradeep AR, Awasthi AK, Sivaprasad	Non-target host immune gene modulation in transgenic	Biotechnology Journal	20	1-12	2017

	V, Ponnuvel KM and Mishra RK	silkworm <i>Bombyx mori</i> endowed with RNAi silence BmNPV genes	International			
9.	Pooja M, Pradeep AR, Hungund SP, Ponnuvel KM, and Trivedy K.	The dipteran parasitoid <i>Exorista bombycis</i> induces pro- and anti-oxidative reactions in the silkworm <i>Bombyx mori</i> : Enzymatic and genetic analysis.	Archives of Insect Biochemistry and Physiology	94	doi: 10.1002/arch.21373	2017
10	Pooja M, Pradeep AR, Hungund SP, Sagar C, Ponnuvel KM, Awasthi AK and Trivedy K	Oxidative stress and cytotoxicity elicited lipid peroxidation in hemocytes of <i>Bombyx mori</i> larva infested with dipteran parasitoid, <i>Exorista bombycis</i> .	Acta Parasitologica	62	717-727	2017
11	Pradeep AR, Kaur P and Asea AA	Pradeep ANR, Asea A, Kaur P (2016) Nucleolin Transports Hsp72 to the Plasma Membrane Preparatory to its Release into the Microenvironment.	Journal of Cell Science and Therapy	7:254	doi: 10.4172/2157-7013.1000254	2016
12	Pradeep AR, Anitha J, Panda A, Pooja M, Awasthi AK, et al.	Phylogeny of Host Response Proteins Activated in Silkworm <i>Bombyx mori</i> in Response to Infestation by Dipteran Endoparasitoid Revealed Functional Divergence and Temporal Molecular Adaptive Evolution.	Journal of Clinical & Cellular Immunology	6:370	doi:10.4172/2155-9899.1000370	2015
13	Anitha J, Pradeep AR and Sivaprasad V	Upregulation of <i>Atg5</i> and <i>AIF</i> gene expression in synchronization with programmed cellular death events in integumental epithelium of <i>Bombyx mori</i> induced by a dipteran parasitoid infection.	Bulletin of Entomological Research (Cambridge, UK)	104	794-800	2014

14	Anitha J, A R.Pradeep, A. K. Awasthi, G. N. Murthy, K .M. Ponnuel, S Sasibhushan and G C. Rao	Coregulation of host–response genes in integument: switchover of gene expression correlation pattern and impaired immune responses induced by dipteran parasite infection in the silkworm, <i>Bombyx mori</i> .	Journal of Applied Genetics	55	209-221	2014
15	Pradeep AN, Anitha J, Awasthi AK, Babu MA, Geetha MN, Arun HK, Chandrashekhar S, Rao GC, Vijayaprakash NB	Activation of autophagic programmed cell death and innate immune gene expression reveals immuno-competence of integumental epithelium in <i>Bombyx mori</i> infected by a dipteran parasitoid.	Cell & Tissue Research	352	371–385	2013
16	Arunkumar KP, Sahu AK, Mohanty AR, Awasthi AK, Pradeep AR, Urs SR and Nagaraju J	Genetic Diversity and Population Structure of Indian Golden Silkmoth (<i>Antheraea assama</i>)	PLoS ONE	7(8): e43716.	doi:10.1371/journal.pone.0043716	2012
17	A R. Pradeep, Anuradha H. J, C K. Singh, A K. Awasthi, Vikas Kumar, G C. Rao and N.B. Vijaya Prakash	Genetic analysis of scattered populations of the Indian eri silkworm, <i>Samia cynthia ricini</i> Donovan: differentiation of subpopulations.	General and Molecular Biology	34	502-510	2011
18	A R. Pradeep, A K. Awasthi , C K. Singh , H.J Anuradha, C. G P. Rao and N. B. Vijayaprakash	Genetic evaluation of eri silkworm <i>Samia cynthia ricini</i> : ISSR loci specific to high and low altitude regimes and quantitative attributes.	Journal of Applied Genetics	52	345-353	2011
19	A Asea, A Pradeep, P Kaur, P Bempong, and S.	Nucleolin as an Intracellular Transporter of Hsp72	Cancer Research	70	doi:10.11	2010

	Lillard		(Abstract)		58/00 08- 5472. SAB CS10 -P6- 08-08	
20	Pradeep AR, Awasthi AK and Raje Urs S	Association of A/T Rich Microsatellites with Responses to Artificial Selection for Larval Developmental Duration in the Silkworm <i>Bombyx mori</i>	Molecules and Cells	25	467-478	2008
21	A K. Awasthi, AR Pradeep, PP Srivastava, K Vijayan, Vineet Kumar, S Raje Urs	PCR detection of densovirus isolates in silkworm (<i>Bombyx mori</i>) from India and their nucleotide variability	Indian Journal of Biotechnology	7	56-60	2008
22	A K. Awasthi, PK Kar, PP Srivastava, Rawat N, K. Vijayan, AR Pradeep and Raje Urs	Molecular evaluation of bivoltine, polyvoltine and mutant silkworm <i>Bombyx mori</i> L with RAPD, ISSR and RFLP-STS markers	Indian Journal of Biotechnology	7	188-194	2008
23	Pradeep AR, Anuradha K, and Raje Urs S	Molecular markers for biomass traits: association, interaction and genetic divergence in silkworm, <i>Bombyx mori</i> .	Biomarker Insights	2	197-217	2007
24	Vijayan K, Anuradha HJ, Nair CV, Pradeep AR, Awasthi AK, Saratchandra B, Rahman SAS, Singh KC, Chakraborti R and Urs SR	Genetic diversity and differentiation among populations of the Indian eri silkworm, <i>Samia cynthia ricini</i> , revealed by ISSR markers.	Journal of Insect Science	6, available online: insectscience.org/6.30		2006
25	Pradeep AR, Chatterjee SN and Nair CV	Genetic differentiation induced by selection in an inbred population of the silkworm <i>Bombyx mori</i> revealed by RAPD and ISSR	Journal of Applied Genetics	46	291-298.	2005

		marker systems.				
26	A.R. Pradeep, S.N. Chatterjee, B. Sarathchandra and S. Raje Urs	Allelic variants of a juvenile hormone responsive gene which connote genetic differentiation in strains of the silkworm <i>Bombyx mori</i>	Journal of Genetics & Breeding	59	213-224	2005
27	Chatterjee SN and Pradeep AR	Molecular Markers (RAPD) associated with growth, yield, and origin of the silkworm, <i>Bombyx mori</i> L. in India..	Russian Journal of Genetics	39	1365-1377.	2003

13. Detail of Patents:

#	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
	NIL					

14. Books/Reports/Chapters/General Articles etc.

#	Title	Author's Name	Publisher	Year of Publication
1	Cellular trafficking of cell stress proteins in health and disease - Chapter 8: Nucleolin: A novel intracellular transporter of HSPA1A -. Heat Shock Proteins 6: 115-124.	Kaur P., AR Pradeep and Alexzander Asea	Springer	2012

15. Any other Information (Maximum 500 words):

New lines developed and maintained through collaborative projects with other Sericulture Institutes:

1. Three transgenic CSR4 and three transgenic CSR27 are synthesized and maintained by Bivoltine egg preservation schedule. These lines showed ~50% survival in comparison to 12% in CSR controls on NPV infection

2. Three lines of Marker assisted selection lines for NPV tolerance (MASN) viz., MASN4, MASN6 and MASN7 are synthesized and maintained by Bivoltine egg preservation schedule. These lines are used as parental components to develop bivoltine hybrids and cross breeds that showed 10- 15% increase in yield in West Bengal, Jammu and Himachal Pradesh.

Abstracts in National / International Conference presentation

Shambhavi HP, P. Makwana, **A.R.Pradeep** and R.K. Mishra (2019) Microsporidian infection in *Bombyx mori*: Molecular events and new targets to control infection. 6th Asia Pacific Congress of Sericulture and Insect Biotechnology (APSERI-2019); March 2-4, 2019

A.R.Pradeep, Pooja M, Anitha J, Shambhavi P.H., Awasthi A.K, Geetha NM, Ponnuvel K.M and Kanika Trivedy (2015) O31A-Immune responses of silkworm, *Bombyx mori* against infection by an endoparasitoid; Oral presentation by A R Pradeep in 4th International Congress on Analytical Proteomics, Caparica - Almada, Portugal, 7th – 9th SEPTEMBER 2015

Pradeep.A.R, Arun K.H, Anitha J, Geetha N.M, Awasthi A.K, Rao C.G.P and Vijayaprakash N.B (2011) Immunity in insects against parasites and pathogens: Recent developments in silkworms. **National Conference on Sericulture Innovations: Before and Beyond, Mysore, India, 27-29 January, 2011**, pp 149-150.

Pradeep A R, Nagaraja G, Kaur P, Asea E, Bempong P, Lillard S, Shapiro L, Asea A (2010) Involvement of Nucleolin in Hsp72 Intracellular Trafficking, **in Section: Immunology and Inflammation, Society of Thermal medicine Annual meeting, Clearwater, Florida, USA, April 23-26, 2010.**