

**Prof. D. M. Mamatha** *PhD., FISEC., FISCA., Fulbright Scholar*  
**Registrar**

**Professor -Department of Biosciences & Sericulture**  
**Sri Padmavati Mahila Visvavidyalayam, Women's University**  
**Tirupati-517 502.**

✉ **prof.mamatha@gmail.com; mamatha@spmvv.ac.in**  
🌐 **www.spmvv.ac.in**



### Academic Expertise

#### Post-Doctoral Studies

- ◆ **Fulbright Fellowship to Dept of Entomology, University of California, Davis, USA (2013-14)**
- ◆ **DBT-Overseas Young Scientist Fellowship at Dept of Entomology, Univ. of California, Davis, USA (2007-08)**

#### Education

- ↗ **Ph.D. (Sericulture)** from Sri Venkateswara University, Tirupati 1999-2004.
- ↗ **NET (National Eligibility Test)** for Lectureship qualified, 1995
- ↗ **PGBDI (P.G Diploma in Bioinformatics)** from University of Mysore, Mysore in 2005-06
- ↗ **Masters in Sc. (Sericulture)** from Sri Padmavati Mahila Visvavidyalayam, Tirupati 1991.
- ↗ **Bachelors in Sc. (Z.B.C)** from Andhra University in 1987.

### Professional Programs & Responsibilities

- ♣ **NAAC Member-Assessor** (National Assessment and Accreditation Council) 2019 to till date
- ♣ **NIEPA National Institute of Educational Planning and Administration, New Delhi,** Administrators program for Financial Management, Dec, 2018
- ♣ **Haggai International Institute,** Underwent International Leader experience programme at Hawaii, 2019 USA.

### Areas of Research expertise

Molecular biocontrol of insect pests	Silk Biomaterials	Molecular taxonomy
DNA Barcoding	Gene based QR coding	Computational Biology

### Technology Patent filed

- ❖ Prof. S. Jyothi, Prof. D. M. Mamatha, Ms. G. Nagalakshmi “Automatic Recognition of Indian Prawn Species”, CBR No:14056, Application Number:201641021525–Patent filed on 22.06.16.

### International technology Patent Published

- ❖ Prof. S. Jyothi, Prof. D. M. Mamatha, G. Nagalakshmi, K. Himabindu “Automatic Recognition of Indian Prawn Species” Pub.No.WO/2017/221259, Application No:PCT/IN2016/000235, International filing date:30.09.2016. Published date: 28.12.2017. IPC: GO6K9/00(2006.01), GO6T7/00(2017.01)
- ❖ Prof. D. M. Mamatha, K. Sai Goutham, A process of Preparation of bilayer composite wound dressing from sericin and product thereof. Indian patent application no & Filing date 202141020203 & 03/05/2021, TEMP/E1/22304/2021- CHE, C.B.R. No.16263.
- ❖ **Silk design trade mark:** ``Registered trade mark no:3751232dtd12.02.2018. Registered design -



## Research Project grants (Completed, On-going & Submitted)

Title of the project (Multi-disciplinary projects)	Period	Funding Body	Grant (Rs.)
<b>National Collaborations</b>			
Development of Novel recombinant baculovirus biopesticides for the biological control of Bihar hairy caterpillar <i>Spilosoma obliqua</i> . Collaboration with SV University, Tirupati.	2010-13	<b>DBT</b>	<b>34,00,000 (Completed)</b>
Novel strategy for the biological control of <i>Helicoverpa armigera</i> (Hubner) through recombinant baculovirus and its field applicability. Collaboration with ANGRAU, Tirupati	2011-14	<b>UGC</b>	<b>9,16,000 (Completed)</b>
Pattern recognition & DNA barcoding of Coastal Andhra prawn species Collaboration with Dept. of Computer Science, SPMVV	2012-15	<b>DBT</b>	<b>32,00,000 (Completed)</b>
Molecular and Pattern Identification of Indian Mariculture fauna using DNA Barcoding and Soft Computing Techniques. Collab. with Dept. of Compt Sc, SPMVV & Fishery survey of India, Chennai	2016-19	<b>DBT</b>	<b>54.95,000 (Completed)</b>
Identification of thermos-tolerant bivoltine breeds based on expression of heat shock protein coding genes in Silkworm, <i>Bombyx mori</i> L. Collaboration with APSSRDI, Hindupur & Dr. BAM University, Aurangabad	2018- 21	<b>DBT</b>	<b>83,80,000 (Completed)</b>
Development of silk fibroin-based antimicrobial electro spun matrix as biomaterial for Burns wound healing	2018-21	<b>DST-SERB</b>	<b>19,21,000 (Completed)</b>
Empowering Women through IoT-Seritech capacity building training programmes and sustainable resource centres in Anantapur and Chittoor districts of A.P Collaboration with: APSSRDI, Hindupur	2019-22	<b>DBT</b>	<b>51,00,000 (Ongoing)</b>
Development of a Decision Support System based on Hyper spectral Image Analysis & DNA Barcoding for Pest Management in Rice, Groundnut and Mulberry Cropping Systems. Collaboration with Institute of Frontier Technologies, Tirupati & Dept. of Computer Science, SPMVV	2018-21	<b>DST- SERB</b>	<b>85,81,760 (submitted)</b>
Molecular mapping of Indian bovine genetic resources through DNA based-QR coding, Barcoding & Bio-data analytics. Collaboration with National Kamadhenu Breeding Centre-Andhra Pradesh Livestock Development Agency & Para Association for Rural Development	2020-22	<b>NKBC-PARD</b>	<b>10,00,000 (ongoing)</b>
<b>International collaborative projects</b>			
“Cloning & characterization of JHEH gene from the <i>Heliothis virescens</i> for the biocontrol of <i>Heliothis</i> sps”. Collaboration with Dept of Entomology, Univ of California, Davis, USA	2008-09	<b>Indo-US DBT - Associateship</b>	<b>14,00,000 (Completed)</b>
Characterization of JHEH gene of <i>Spilosoma oblique</i> to study its role as recombinant biopesticide. Collaboration with Dept. of Entomology, Univ. of California, DAVIS, USA	2013-14	<b>USIEF- Fulbright</b>	<b>21,97,000 (Completed)</b>
Factors regulating the expression of lysozyme- like proteins (LLPs) in Silkmths. Collaboration with Dept of Entomology, Faculty of Science, Cairo University, Giza, Egypt	2015-17	<b>Indo-Egypt</b>	<b>1000\$ (Completed)</b>
Development of advanced tissue biomaterials using rec fusion silk Proteins. Collaboration with BioADD lab, Stanford University, CA, USA & APSSRDI, Hindupur, CDFD, Hyderabad & Dept. of Computer Science, SPMVV	2016-18	<b>IUSSTF - INDO-US</b>	<b>44,42,690.00 (Submitted)</b>
Structuring and enabling skill development to empower displaced rural women for jobs and entrepreneurship In collaboration with IIIT Sricity, Sricity partners	2022 ongoing	<b>FULBRIGHT Alumni grant</b>	<b>6000 US\$</b>

## Honors, Fellowships and Awards

### As Faculty:

- ★ 2021- Awarded '**World Intellectual property accreditation Erudite medal**' from the Centre for Professional advancement- West Midland **United Kingdom and India**
- ★ 2017- Received '**Best Teacher Award**' by **Lions club of International India**, Tirupati
- ★ 2016 - Received '**Research Excellency award**' by **Indus foundation**, New Jersey, USA.
- ★ 2013 - Received '**Best Research paper award**' from the International Journal of Agri. Sci& Research (IJASR)for the research paper entitled 'Cloning and Insilico characterization of JHEH Gene of *Spilarctia obliqua*.
- ★ 2011- Received '**DBT& UGC-International Travel awards**' to travel to Egypt to present paper in the 3rd International Arab Conference on Biological control of pests, Egypt, Oct 2011.
- ★ 2010 - Received **IASc-INSA-NASI National Academies Summer fellowship** to continue my work in Indian Institute of Science, Bangalore
- ★ 2009 - Received **IASc-INSA-NASI National Academies Summer fellowship** to work in Indian Institute of Science, Bangalore.
- ★ 2008 - Received **Life time Award** as Fellow of International Society of Ecological Communications.
- ★ 2007 - Awarded one year "**Overseas Young Scientist Fellowship**" 2006-07 by **DBT-Govt of India**, to work in Dept of Entomology, University of California, CA, USA.
- ★ 2006 - Received **WHO/UNICEF-Achievement Award** - One among the 15 participants selected throughout Asia for the '3<sup>rd</sup> International Training Course on Bioinformatics by UNICEF/UNDP/World Bank/WHO, Mahidol University, Bangkok, Thailand Oct-2006.
- ★ 2005 - Received '**UGC – International Travel award**' for presenting paper in the III Asia pacific International Bioinformatics conference at National University of Singapore, Singapore.
- ★ 2004 – Received '**Best paper presentation**' for the paper titled "Molecular visualization and functional physiology of juvenile hormone in Insects with special reference to *Bombyx mori*. L"

## National & International Fellowships awarded

- ✓ Awarded '**Fulbright Fellowship**' to USA , University of California, DAVIS on Advanced aspects on gene expression studies (2013-14).
- ✓ Recognized as **Fellow-International Science congress Association** 2013.
- ✓ Awarded **IAS-INSA-NASI, National Academies Summer Research Fellowship**, 2010
- ✓ Awarded **IAS-INSA-NASI, National Academies Summer Research fellowship**, 2009
- ✓ Recognized as **Fellow - International Society for Ecological communications**, 2009.
- ✓ Awarded - **DBT - Overseas Young Scientists fellowship to USA** at Dept of Entomology, University of California, Davis, (2007-08).

### As a student

- June-2003-University I ranking PG Diploma in Bioinformatics
- May-1995-U.G.C-NET (National Eligibility Test) Lecturer ship
- June-1991-Received Merit scholarship for the Govt of A.P. India
- June-1990-University IV ranking M.S.
- June-1987-University II ranking P.G.D.N.

## Academic & Research Visits –

### *International Universities/ Research Institutes Visited on various Assignments*

- University Malaya, Malaysia
- National University of Singapore, Institute of Info com research, Singapore
- Nan yang Technological University, Temasak life Science, Singapore
- Mahidol University, Bangkok, Thailand
- Centre for Bioinformatics and Applied Genomics, Bangkok, Thailand
- University of California, Davis, CA, USA
- Western University of Ontario, London, Canada.
- Birth Place of Insulin, Sir Fredrick Banting Square, London, Canada
- Tribhuvan University, Kathmandu, Nepal
- Faculty of Agriculture, Zagazig University, Zagazig, Egypt
- Faculty of Agriculture, Cairo University, Cairo, Egypt
- University of California, Davis, CA, USA
- Stanford University, California, USA
- Haggai International Leadership Institute, Maui Hawaii, USA

## Research Guidance

**PhD Students : 8 (4 Completed + 4 Ongoing)**  
**Postdoctoral Fellows : 3 (2 Completed + 1 Submitted)**

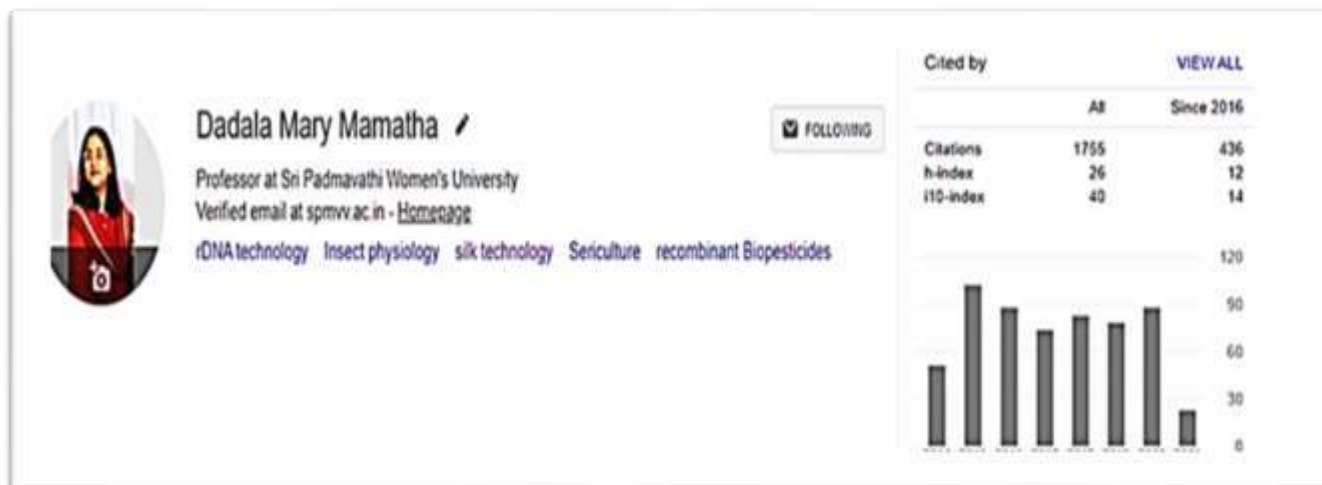
- ⇒ *Conferences/Seminars/Workshops Organized* : **30 plus (National & International)**
- ⇒ *Invited talks/Lead talks delivered* : **35 plus (National & International)**
- ⇒ *Conferences/Conferences/Workshops participated* : **60 plus (National & International)**

## As Expert committee/Selection committee member

- ❖ NAAC – Peer team committee Member: 2019,2020,2021,2022 to till date
- ❖ RUSA Inspection committee Member: 2019-2020, 2020-21,21-22
- ❖ Member - DBT- R C G M regulatory compliance committee 2017 onwards
- ❖ DBT nominee- IBSC Institutional Biosafety committee (IBSC) APSSRDI, Hindupur
- ❖ UGC nominee – APSCET,2022
- ❖ Selection committee Member: IIT, Tirupati
- ❖ Selection committee Member: University of Mysore
- ❖ Selection Committee Member: Bangalore University
- ❖ Selection committee member: APSSRDI, Hindupur
- ❖ Executive council member: SPMVV 2016- to date
- ❖ Finance Committee member: SPMVV 2016 - to date
- ❖ Enquiry committee Member on irregular appointments: Vikram Simhapuri University
- ❖ Screening committee on Non-teaching appointments: Vikram Simhapuri University
- ❖ Board of Studies Member for Mysore Univ, Bangalore Univ, Vikram Simhapuri Univ &
- ❖ Member- Research advisory committee for Krishna Teja dental college, Tirupati

## Research Publication Credits/Citations

**Citation: 1755, h-index: 26, i10-index: 40**



### Books: 5

- ✍ Authored a book titled “Integrated Insect Pest Management Physiological and Molecular Approaches” (2010) ISBN978-3-639-29247-3VDM, publishers, Germany.
- ✍ Authored a book entitled “Introductory Bioinformatics-Student Handbook” (2016) ISBN:978-93-84659-62-2
- ✍ Authored a book entitled “Laboratory Manual for Molecular Biology-For Post Graduate Students in Plant Sciences” (2016) ISBN:978-93-84659-61-5
- ✍ Edited ‘Advances in Computational Bio Engineering Vol-I Springer Publications 2020
- ✍ Edited ‘Advances in Computational Bio Engineering Vol-II Springer Publications 2020
- ✍ Edited ‘Proceedings of the 2<sup>nd</sup> International Springer conference on Computational and Bio engineering’ 2021

### Book Chapters: 7

- ✍ Contributed chapters on the subject “Impact of Globalization of Science & Technology” in the book entitled “The dynamics of change and continuity in the Era of Globalization–voices from the margins” (2009) ISBN:8187365889
- ✍ Contributed chapter entitled “A Novel approach to develop a new-age bio pesticide targeting juvenile hormone binding protein (JHBP) in *Helicoverpa armigera* (Hubner) (2011) with ISBN no: 978-93 80730-01-1
- ✍ Contributed chapter entitled “Image processing: A practical Approach with Real world applications using Matlab” (2017) ISBN13:9781522518808
- ✍ The GA- Based Feature Selection for Squid’s Classification ‘Advances in Intelligent Systems and Computing, Vol898, ISSN 2194-5357ISSN2194-5365(electronic)ISBN978-981-13-3392-7ISBN 978-981-13-3393-4(eBook) <https://doi.org/10.1007/978-981-13-3393-4pp:29-36>.
- ✍ Contributed chapter entitled “Sericulture Industry: A Bonanza to Strengthen Rural Population in India” (2017) IGI global; ISBN13:9781522518808
- ✍ Contributed a chapter entitled “Women in Science Research and Innovation” (2017) Women parliament-Amaravati Declaration 2017 by the Govt of Andhra Pradesh.
- ✍ IQAC publication ‘Indian Women Scientists–Restrains faced and suggested measures’

## A Few selected Research Publications

Yerra A, **D. M. Mamatha** ‘Silk fibroin electro-spun nano fiber blends with antibiotics and polyvinyl alcohol for burn wound healing’ (Scopus) Journal of Appl polymer Sci.2021; Wiley online library. Com/journal/app © 2021 Wiley Periodicals LLC. 1 of 10 <https://doi.org/10.1002/app.5193e51930>.

Yerra A, **D. M. Mamatha**, ‘Antibiotic-based silk fibroin films for burn wound healing’. WILEY - Polymers Advanced Technologies (Scopus) 2020;1–11. <https://doi.org/10.1002/pat.5137>

K. Haripriya, **D. M. Mamatha**, S. Jyothi, S. Vimala ‘DNA Based Quick Response (QR) Code for Screening of Potential Parents for Evolving New Silkworm Races of High Productivity ‘Advances in Computational and Bio-Engineering’ Springer proceedings 2020, Pages 99-110.

Sufia Sultana, **D. M. Mamatha**, Syed Rahamathulla ‘Decades of Research and Advancements on Fabrication and Applications of Silk Fibroin Blended Hydrogels’ Advances in Computational and Bio-Engineering’ Springer proceedings, (2020) Pages 219-231.

V. Amardev Rajesh, **D. M. Mamatha**, M. Bhaskar ‘Comparative in Silico Studies for the Molecular Basis of Lepidopteran Insect Pests Bio-Control Using Insect’s Own Enzymes’ Advances in Computational and Bio-Engineering’ Springer proceedings, (2020) Pages 55-64.

S. Vimala, Sriramadasu Kalpana, EI-Sheikh A. EI-Syed, **D. M. Mamatha** ‘ Screening of Genetic Variance Based on CO-I Gene Analysis of Silkworm (*Bombyx mori*) Races, ‘Advances in Computational and Bio-Engineering’ Springer proceedings (2020), Pages 287-298.

K. Himabindu, S. Jyothi , **D.M. Mamatha** (2019) ‘Squid Species Clustering Based On Color, Shape and Texture Features’ Biodiversity and Aquatic Research : Vol 1, Issue 1pp 1-5

K. Himabindu, S. Jyothi, **D.M. Mamatha** (2019), “GA based Feature Selection for Squids Classification”, Advances in Intelligent Systems and Computing (AISC), Springer Publication, Volume.2, ISSN:2194- 5357, ISBN 978-981-13-3393-4(eBook).

Valluri V. Satyavathi, AmrA.Mohamed., Swetha Kumari, **Dadala M.Mamatha.**, Bernard Duvic. "The IMD pathway regulates lysozyme-like proteins (LLPs) in the silkworm *Antheraea mylitta*". Elsevier, Journal of Invertebrate Pathology. Volume 154, Pages 102-108, May 2018. Impact factor (2018)2.198

P. Prathusha, S. Jyothi, and **D.M. Mamatha** ‘A hybrid implementation of multiclass recognition algorithm for classification of Crabs and Lobsters’ Neural, Parallel, and Scientific Computations, 26, No. 1 (2018), 75-95 ISSN: 1056-2176

Sriramadasu Kalpana, **Dadala Mary Mamatha**, K. Swetha Kumari, Hephzibah A.R. Dadala, 2018, Biocontrol strategy of *Diaphania pulverulentalis* targeting JHEH gene through Molecular cloning and Insilico analysis, International Journal of Genomics and Data Mining, DOI: 10.29014/IJGD-117.000017, Gavin publishers, Volume2018; Issue01,1-9.

Kalpana S., Swetha Kumari K., **Mamatha Mary Dadala** and Hephzibah A.R. Dadala (2017), Computational analysis of juvenile hormone epoxide hydrolase (JHEH) protein sequences among five major lepidopteran pests, International Journal of Recent Scientific Research, DOI:

<http://dx.doi.org/10.24327/ijrsr.2017.0812.1257>, Vol. 8, Issue, 12, pp. 22384-22391, December, 2017.

Amar Dev Rajesh V, Swetha Kumari K, Kalpana S, **Mamatha DM** & Matcha Bhaskar, 2017, Lepidopteron pest control strategy through RNAi Technology using Insect own Enzymes, International Journal of Clinical and Biological Sciences, DOI: <http://dx.doi.org/10.7324/IJCBS.2017.224249>, Scientific International Publishers, Scopus Volume 2, Issue 2, July-Dec 2017, pp42-49, ISSN:2455-6858 Impact factor (2016): 1.215.

K. Himabindu, S. Jyothi, **D. M. Mamatha** (2017) Classification of Squids Using Morphometric Measurements, Journal Of Science, GuJ Sci30(2):61-71(2017).

U. Subhashini, P. Bhargavi, S. Jyothi and **D. M. Mamatha** (2017) Predicting Subcellular Localization Of Proteins With Multiple Sites Using Threshold MI-Knn. International Journal Of Pharma And BioSciences, Int. J. PharmaBioSci 2017 July;8(3):(B) 278-285.

**D.M. Mamatha**, V.V. Satyavathi, S. Jyothi, K. Swetha Kumari (2016). “RNA interference (RNAi) technology of microRNAs targeting juvenile hormone epoxide hydrolase (JHEH) gene for increased silk productivity in *Bombyx mori*”, 2016 3rd International Conference on Computing for Sustainable Global Development (INDIA Com), IEEE Xplore Digital Library, ISSN0973-7529; ISBN978-93-80544-20-5/16, Impact factor:4.934.

S.Vimala, **D.M. Mamatha**, G.D. Khedkar, P.J. Raju “DNA Barcoding studies of Mulberry silkworm (*Bombyx mori*) breeds and their phylogeny based on computational tools”. Special Issue Journal of Computational Science, Mathematics and Biology, IJCSME- SCSMB-16-March-2016,ISSN-2349-8439

K. Swetha kumari, S. Kalpana, A. Rajesh, **D.M. Mamatha** “Structural and functional assessment of JHEHs among Lepidopteran pests by Homology modeling and Molecular dynamics study” Special Issue Journal of Computational Science, Mathematics and Biology, IJCSME-SCSMB-2016, ISSN-2349-8439

**D.M. Mamatha**, S.Jyothi, S.Sharmila, G.D.Khedkar “Molecular Phylogeny of South Indian of Prawn species by DNA barcoding using COI gene as a Marker” Special Issue Computational Science, Mathematics and Biology, , IJCSME- SCSMB-16-March-2016, ISSN-2349-8439.

JiawenXu, Christophe Morisseau, JunYang, **Dadala M. Mamatha**, Bruce D. Hammock ‘Epoxide hydrolase activities and epoxy fatty acids in the mosquito *Culex quinquefasciatus*’ Insect Biochemistry and MolecularBiology,2015,59:41e49 (Elsevier, USA) Impactfactor:3.362.

Swetha Kumari K, **Mamatha Dadala Mary** , Kalpana Sriramadasu , Beulah\_Dadala3‘Expression and characterization of recombinant Juvenile Hormone Epoxide Hydrolase of *Spilarctia obliqua*, a major pest in Agri-Seri’ Molecular Entomology (Canada),Vol. 6, Jan,2015(ISSN 1925-198X) ) Impact factor: 1.939

Raju Anitha, S. Jyothi, **D.M. Mamatha** ‘Classifying Penaeid Prawns Species using Canny and Otsu’ International Journal of Advance Research Computer Science and Management Studies, Vol 2, Issue 11, November 2014. ISSN: 232 7782 1 (Online) Impact factor: 4.739

V.Sucharita, S.Jyothi and **D. M. Mamatha** ‘Evaluation of the Digital images of Penaeid Prawns Species Using Canny Edge Detection and Otsu Thresh holding Segmentation’, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)vol6(2), September-

November, 2013, pp. 117-121 . Impact factor:1.237

V.Sucharita, S.Jyothi and **D.M. Mamatha** ‘A Comparative Study on Various Edge Detection Techniques used for the Identification of Penaeid Prawn Species.’ International Journal of Computer Applications 78(6):1-5, Sept 2013. Published by Foundation of Computer Science, NY, USA. Impact factor:0.821

M.Hema, **Dadala. M. Mamatha**, K.SwethaKumari. Cloning and Insilico Characterization of Juvenile Hormone Epoxide Hydrolase gene of *Spilarctia obliqua*. International Journal of Agricultural Science and Research (IJASR), Vol.3, Issue2, 2013. Impactfactor:4.128

Shizuo G. Kamita, Kohji Yamamoto, **Mary M. Dadala**, Khavong Pha, Aman I. Samra, Christophe Morisseau, Aurélie Escaich, and Bruce D. Hammock. Cloning and characterization of a microsomal epoxide hydrolase from *Heliothis virescens*. Insect Biochem. Mol. Biol, vol. 4, 219-228. 2012. Elsevier Impact factor :3.362

El-Sayed A. El-Sheikh, **Mary D. Mamatha**, “The role of  $\alpha$ -and $\beta$ -hydrolase fold enzymes as biopesticides in pest management”, Jrl. of Biopest, 5:233-238(2012) Impact factor:2.191

El-Sayed A. El-Sheikh, **Mary D. Mamatha**, Didair A. Ragheb and Mohamed-Bassem A. Ashour, ‘The potential of juvenile hormone esterase as a bioinsecticide’ International Journal, Egyptian journal of Bio pest control,21(1),2012,103-110 Impact factor: 0.064

Hari Hara Raju, **D. M. Mamatha**, V.K. Kanji and M.R. Rao. Potential effect of turmeric on the carbohydrate and oxidative metabolic profiles of the Silkworm, *Bombyx mori* L. for higher cocoon yield, Current biotica, Vol4 Issue3, 2010. NAAS rating: 3.68

M. Usha Rani, M. Kalpana Devi, **D.M. Mamatha**, R.Seshadri, Yaswanth Kumar Avulapti. Clinical Data Warehouse on Insect Vector Diseases to Human of Andhra Pradesh” (IJCSIS) International Journal of Computer Science and Information Security, Vol.8, No.5, August2010.Impactfactor:0.476

**Dadala M. Mamatha**, El-Sayed A.El-Sheik and Lizy P. Sravanthi. “Juvenile hormone Epoxide hydrolase (JHEH)- A potent and novel recombinant biopesticide” Proceedings of the International symposium on Environmental Pollution, Ecology and Human health pp109- 113,2009.

**D.M. Mamatha**, Vijaya K. Kanji, Hari H. P. Cohly and M. Rajeswara Rao. ‘Juvenile Hormone Analogues, Methoprene and Fenoxycarb Dose-Dependently Enhance Certain Enzyme Activities in the Silkworm *Bombyx mori*(L). 'Int. J. Environ. Res. Public Health, 5(2), 120-124, 2008 (American journal). <http://www.ijerph.org>IF:2.05

**D.M. Mamatha**, K. Nagalakshamma, V.A.D Rajesh and V.S Sheerin “Protein modelling of Apical membrane antigen-1( AMA-1) of Plasmodium cynomolgi” African Jnl of Biotechnology Vol. 6 (22), 2017. <http://www.academicjournals.org/AJB>. HighIndex:26 NAAS rating:7

**D.M. Mamatha**, H.P.P. Cohly, A.H.H. Raju and M. RajeswaraRao “Studies on the quantitative and qualitative characters of cocoons and silk from methoprene and fenoxycarb treated *Bombyx mori* larvae ” A. Jnl. Biotech. Vol.5 (15) pp 3 Aug, 2006. <http://www.academicjournals.org/AJB>. HI:26 NAAS rating:7

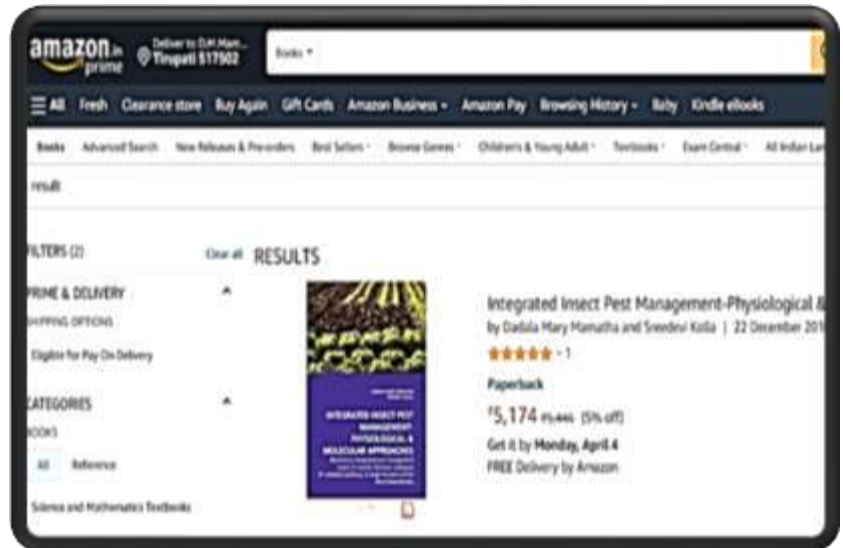
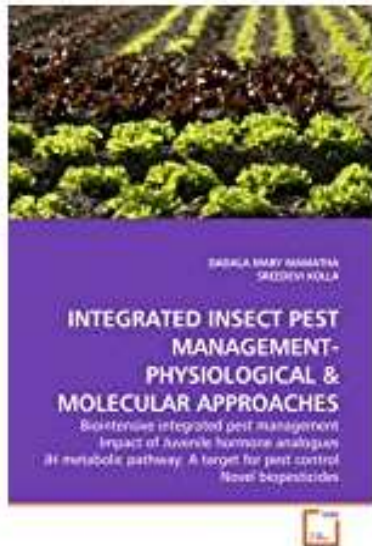
**D.M. Mamatha**, K. Nagalakshamma and M.R. Rao. Structural Pattern recognition and functional



physiology of Juvenile hormone in insects with special reference to Silkworm *Bombyx mori*. L". Intl. Bul. of Pure and Applied sciences. 2005. Vol 24(1) PP.55-61. HI:3

-----oO-----

## Books and Reviews





### E-Content as lecture series on Sericulture developed:

S. NO	Name of the Author	Name of the module/e-content	LINKS	Platform	Date of launching e-content
1	D.M.Mamatha	Cocoon Boiling methods	<a href="https://www.youtube.com/watch?v=-ZuTydJ3gDE">https://www.youtube.com/watch?v=-ZuTydJ3gDE</a>	YouTube	14.12.2018
2	D.M.Mamatha	By-products of Silk Industry	<a href="https://www.youtube.com/watch?v=jf-DKegsptc">https://www.youtube.com/watch?v=jf-DKegsptc</a>	YouTube	19.02.2019
3	D.M.Mamatha	Raw Silk Testing	<a href="https://www.youtube.com/watch?v=FV2fm7ZG5K">https://www.youtube.com/watch?v=FV2fm7ZG5K</a>	YouTube	08.03.2019
4	D.M.Mamatha	Silk Degumming	<a href="https://www.youtube.com/watch?v=T55E1cM3Dx4">https://www.youtube.com/watch?v=T55E1cM3Dx4</a>	YouTube	12.02.2019
5	D.M.Mamatha	Genetic correlation	<a href="https://www.youtube.com/watch?v=KiyE83orSec">https://www.youtube.com/watch?v=KiyE83orSec</a>	YouTube	19.02.2019
6	D.M.Mamatha	Molecular Biotechnology in Sericulture	<a href="https://www.youtube.com/watch?v=eMt4EEBLOBw">https://www.youtube.com/watch?v=eMt4EEBLOBw</a>	YouTube	19.02.2019
7	D.M.Mamatha	Silk dyeing and Printing	<a href="https://www.youtube.com/watch?v=2IuuVzscZcM">https://www.youtube.com/watch?v=2IuuVzscZcM</a>	YouTube	19.02.2019
8	D.M.Mamatha	Silk Throwing	<a href="https://www.youtube.com/watch?v=zv63GZTjPE0">https://www.youtube.com/watch?v=zv63GZTjPE0</a>	YouTube	12.02.2019
9	D.M.Mamatha	Different types of Cocoon	<a href="https://www.youtube.com/watch?v=qeKeKS-iHYg">https://www.youtube.com/watch?v=qeKeKS-iHYg</a>	YouTube	14.12.2018
10	D.M.Mamatha	Types of Cocoons and Silk	<a href="https://www.youtube.com/watch?v=NLUZPPBcbPw">https://www.youtube.com/watch?v=NLUZPPBcbPw</a>	YouTube	14.12.2018
11	D.M.Mamatha	Raw silk testing and grading	<a href="https://www.youtube.com/watch?v=Jh9EyVykbF8">https://www.youtube.com/watch?v=Jh9EyVykbF8</a>	YouTube	13.02.2019
12	D.M.Mamatha	Silk bleaching	<a href="https://www.youtube.com/watch?v=mBejGls80qq">https://www.youtube.com/watch?v=mBejGls80qq</a>	YouTube	12.02.2019

## Referees

- 1. Prof. Bruce. D. Hammock**, Distinguished Professor  
Dept of Entomology, California, Davis, CA 95616-5270  
Phone: (530) 752-0492 Fax: (530) 752-1537 bdhammock@ucdavis.edu,  
<http://www.biopestlab.ucdavis.edu/>  
<https://biology.ucdavis.edu/people/bruce-hammock> Department of Entomology, University of
- 2. Prof. G.D. Khedkar**, Director-Paul Heber centre for DNA barcoding & Biodiversity studies (PHCDBS)  
Dr. Babasaheb Ambedkar Marthawada University,(BAMU) Aurangabad, Maharashtra, India  
Email: gdkhedkar@gmail.com mobile: 09423777971  
<http://www.bamu.ac.in/dept-of-zoology/Faculty.aspx#>
- 3. Prof. S. Jyothi**,  
Secretary- SSIIE Technology Business Incubator  
Director- Command Control Centre  
Former Director- IQAC (Internal Quality Assurance cell)  
Dept of Computer Science-Sri Padmavati Mahila Visvavidyalayam (Women's University)  
Tirupati-517502, Andhra Pradesh, India  
Email: jyothi.spmvv@gmail.com, jyothi@spmvv.ac.in, Mobile: 9440582187, 9949857165
- 4. Dr. P.J. Raju**, Director-Andhra Pradesh State Sericulture Research and Development Institute,  
Hindupur, Anantapur Dist., AP  
Email: apssrdidirector@gmail.com; directorresearchseri@gmail.com. Ph: 9866699603

----o0o---