



**Changu Kana Thakur Arts, Commerce and Science College, New Panvel  
(Autonomous)**

Re-Accredited 'A++' Grade by NAAC  
'College with Potential for Excellence' Status Awarded by University Grants Commission'  
Best College Award' by University of Mumbai

**DEPARTMENT OF ZOOLOGY**

**RESEARCH PUBLICATIONS**

**Dr. Manda Anil Mhatre**

1. **Manda Anil Mhatre** (2025). Impact of Air Pollution on Human Health, *International Journal of Zoological Investigation*, 11(1)214-218.
2. **Manda Anil Mhatre** (2024). Air pollution, Types, Sources, Pollutant and control measures, *International Journal of Zoological Investigation*, vol.10 no.2,1002-1008.
3. **Manda Anil Mhatre** (2024). Understanding Key stressors for marine and coastal Biodiversity loss: An Overview, *Uttar Pradesh Journal of Zoology*, 2024 - Volume 45 [Issue 15] 330-336.
4. **Manda Anil Mhatre** (2024). Role of Mangroves as Fishery resources, *Uttar Pradesh Journal of Zoology*, Volume 45 [Issue 16] 35-41.
5. **Manda Anil Mhatre** (2024). Understanding Key Stressors for Marine and Coastal Biodiversity Loss: An Overview., *Uttar Pradesh Journal of Zoology*, Volume 45(15), 330–336.
6. **Manda Anil Mhatre** (2024). Shorebirds: Threats and Strategies for Conservation, 2024, *Uttar Pradesh Journal of Zoology*, vol.45 Issue 17, Page 176-185, article no. upjoz. 3936.
7. **Manda Mhatre**, Yojana Muniv and Rani Thakre (2022). The Extraction of Pearl Essence from Different Types of Fishes, *International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)* Volume 2, Issue 3.
8. **Manda Mhatre**, Shruti Hiremath and Yojana Muniv (2022). Survey project to understand the impact of covid-19 on, Education, *Electronic International Interdisciplinary Research Journal*, XI (II), 148-155.
9. **Manda Anil Mhatre**, Vinda Manjramkar and Surendra Prasad (2024). Rice Yellow Stem Borer: An Overview, *The Agriculture Magazine* ISSN :2583-1755 Vol.03 Issue:8, 288-291 .
10. **Manda Anil Mhatre**, Vinda Manjramkar and Surendra Prasad (2024). Rice grain Discolorations Disease: An Overview, *The Agriculture Magazine*, Vol.03 issue :06- page no.448-451.
11. Surendra Prasad, **Manda Anil Mhatre**, and Khan Laiqur Rehman Moiz (2024). Ecological role of birds, *The Agriculture Magazine* ISSN :2583-1755 Vol.03 issue :9-page no. 509-512.
12. **Manda Anil Mhatre**, and Khan Laiqur Rehman Moiz (2024). Microscopic Menace: The Impact of Mites on Agricultural Crop, *The Agriculture Magazine* ISSN :2583-1755 Vol.03, issue :11- page no.448-451.
13. Jyotsna Thakur, Manda Mhatre (2015). Bioaccumulation of Heavy Metals in Tilapia Mossambicus Fish from Industrially Polluted Patalganga River, *India International Journal of Advanced Research*.



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14. Jyotsna Thakur & **Manda Mhatre** (2015). Potential Health Risk due to the Bioaccumulation of Heavy Metals in the Fish found in Dharamtar Creek, *International Journal of Engineering Technology Science and Research*.
15. Jyotsna Thakur & Manda Mhatre (2015). Assessment of Potential Dietary Toxicity of Heavy Metals in Tilapia Mossambica in the Industrially, *International Journal of Engineering Technology, Management and Applied Sciences*.
16. Bioaccumulation of heavy metals in the fish found in Gadhi River, Panvel, India (2016): Two Days National Seminar on Environmental hazards and problems: Issues and Solutions organized by C. K. Thakur A. C. S. College, New Panvel, dated 28<sup>th</sup> and 29<sup>th</sup> March 2016.
17. Bioaccumulation of Heavy Metals in *Tilapia mossambica* found in Gadhi River, Panvel, India (2012): UGC Sponsored Two Days State level seminar on Recent trends in impact of environmental pollution on Biodiversity and Human health organized by Dept. of Zoology Veer Wajekar A.S.C. College, Phunde, Tal-Uran, Raigad dated 6<sup>th</sup> -7<sup>th</sup> /01/2012.
18. Effect of anticancer drug Etoposide (VP-16) on male reproductive organs of male white rat (2011): UGC Sponsored International Symposium on current trends in Endocrine and Reproductive Health., Mysore University, Feb.2011.
19. Effect of Gossypol on male rats (Albino Wistar) Body Weight, Epididymis weight and ultrastructure of Epididymis (2011) UGC Sponsored International Symposium on current trends in Endocrine and Reproductive Health., Mysore University, Feb.2011.
20. Ultrastructural revelations on the interhaemal membrane of the mega chiropteran Pteropodidae bat *Cynopterus sphinx gangeticus* during different stages of embryonic development (2011) UGC Sponsored International Symposium on current trends in Endocrine and Reproductive Health., Mysore University, Feb.2011.
21. Elaborative electron microscopic studies on the inter haemal membrane of the short-nosed fruit bat *Cynopterus sphinx gangeticus* during early and full term stages of pregnancy (2011): UGC Sponsored National conference on Current Trends in Biological Sciences organized by R.K.Talreja College of Arts, Science and Commerce, Ulhasnagar 29<sup>th</sup> -30<sup>th</sup> Jan.2011.
22. Effect of steroid combinations on the body weight and weight of epididymis in male white rats (Albinowistar) (2010): State level seminar on Recent Trends and Innovations in Zoology, Dec. 2010.
23. Electron microscopic studies on the development of Ineterhemal Membrane of the Vespertiloind bat, *Scotophilus heathii* during early and full-term Stages of pregnancy (2010): State level seminar on Recent Trends and Innovations in Zoology, Dec. 2010.

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24. Comparative Fine structure of Lactotrophs in some mammals during late pregnancy (2010): State level seminar on Recent Trends and Innovations in Zoology, Dec. 2010.
25. Ultra-structural Investigations on interhaemal membrane of the microchiropteran vespertilionid bat- *Scotophilus heathii* during varied stages of gestation. 2009: National symposium on comparative endocrinology and reproductive physiology: current advances, Institute of Science, Mumbai. Dec. 2009.



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**Dr. Yojana S. Muniv**

1. **Y. S. Muniv**, J. A. Chavan, N. T. Pawar, S. R. Aland and G. P. Bhawane (2010). Characteristics of midgut amylase in *Bombyx mori* L. Comparative analysis in multivoltine races, PM and Kolar gold, *Uttar Pradesh Journal of Zoology*, 30(3): 325-329.
2. Varsha Kumbhar, Sunil Gaikwad, **Yojana Muniv** and Ganesh Bhawane (2010). Midgut amylase activity in *Antheraea proylei* J., *Geobios*, 37: 37-40.
3. **Muniv Y. S.**, Pawar N. T., Gaikwad S. M. and Bhawane G. P. (2011). Characteristics of midgut invertase in *Bombyx mori* L.: A comparative study in multivoltine races, Pure Mysore and Kolar Gold. *Journal of Science Information*, 2: 94-97.
4. S. M. Gaikwad, **Y. S. Muniv**, J. A. Chavan and G. P. Bhawane (2011). Population density and natural enemies of *Papilio polytes polytes* L. (Lepidoptera: Papilionidae). *Biological Forum- An International Journal* 3(1):41-43.
5. **Y. S. Muniv**, S. M. Gaikwad, J. A. Chavan, V. J. Kumbhar and G. P. Bhawane (2011). Characteristics of midgut amylase in *Bombyx mori* L.: A Comparative analysis in multivoltine races, Nistari And Kolar Gold, Bulletin of, *Indian Academy of Sericulture* 15(1): 15-20.
6. **Muniv Yojana**, Pawar Nirmala, Gaikwad Sunil and Bhawane Ganesh (2012). Characteristics of midgut invertase in *Bombyx mori* L. A comparative analysis in multivoltine races, Nistari and Kolar Gold. *Bionano Frontier* 5(1): 134-136.
7. **Y. S. Muniv** and G. P. Bhawane (2012). Comparative study on the Characteristics of midgut Protease in different multivoltine races of silkworm, *Bombyx mori* L. *Biological Forum- An International Journal*. 4(1):75-78.
8. N.T. Pawar, **Y.S. Muniv**, G.P. Bhawane and A.A. Kanase (2012). Comparison of midgut Trehalase characteristics in bivoltine and multivoltine *Bombyx mori* L. *Biological Forum - An International Journal*, 4(1): 82-84.
9. N. T. Pawar, **Y. S. Muniv**, S. J. Patil, G. P. Bhawane and A. A. Kanase (2012). Comparative study of protease characterization in bivoltine races of *Bombyx mori* L. *Geobios*, 39(2-3): 113- 116.
10. J. A. Chavan, Y. J. Koli, **Y. S. Muniv**, N. T. Pawar and G. P. Bhawane (Jan-June 2013). Effect on the cocoon character of *Baeuveria bassiana* infection and subsequent treatment of ethanolic plant extract of 5th instar larvae of *Bombyx mori* L.) *Trajectory* 21(1): 45-52.



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11. Chavan, J. A., Koli, Y. J., **Muniv, Y. S.** and Bhawane, G. P. (2014). Efficacy of *Beauveria bassiana* on some organs of silkworm *Bombyx mori* L. (Race- PM)- Histological preparations. *Flora & Fauna* 20(2) (Special issue): 135-138.
12. **Muniv, Y. S.** and Bhawane G. P. (2015). Life cycle and cocoon characteristics of *Bombyx mori* L.: A comparative study in multivoltine races. *Proceedings of Natural Conference on Recent Trends in Life Sciences*. 150-157.
13. **Muniv, Y. S.** and Bhawane G. P. (2015). Neuroendocrine control of ovarian maturation in *Bombyx mori* L. *Bionano Frontier*. 8(3): 148-153
14. **Muniv, Y. S.** and Bhawane G. P. (2016). Prothoracic gland in different races of *Bombyx mori* L. *Proceeding of National Conference on Biodiversity, Climatic change and Sustainable Development*. 15-22.
15. **Y. S. Muniv** and G. P. Bhawane (2016). Mandibular gland in different races of *Bombyx mori* L. *Research Frontier in Sciences*. 267-275.
16. **Y. S. Muniv** and G. P. Bhawane (2016). Haemocyte count in silkworm *Bombyx mori* L.: A comparative study in different multivoltine races. *Asian Journal of Science and Technology*, Vol. 08, Issue 01, 4197-4208.
17. **Y. S. Muniv** and G. P. Bhawane (2017). Histomorphology of neuroendocrine system in different multivoltine races of *Bombyx mori* L. *International Journal of Research in Engineering and Applied Sciences (IJREAS)*. Vol. 7 Issue 8, 21-38.
18. Prabhakar R. Pawar, **Yojana S. Muniv** & Santosh P. Supanekar (2020). Impact of anthropogenic activities on wildlife mortality around Panvel, Navi Mumbai, West coast of India. *Journal of Research and Development*. Vol. 10 Issue 7, 163-172
19. **Y. S. Muniv**, S. P. Supanekar and A. M. Khan (2020). Biochemical studies on fresh water bivalves exposed to the mercury chloride. *Asian Journal of Advances in Research*. Vol. 4 Issue 2, 11-17.
20. Manda Mhatre, **Yojana Muniv** and Rani Thakre (2022). The Extraction of Pearl Essence from Different Types of Fishes. *International Journal of Advanced Research in Science, Communication and Technology*. Volume 2, Issue 3, 237-239.
21. Manda A. Mhatre, Shruti R. Hiremath and **Yojana S. Muniv** (2022). Survey project to understand the impact of COVID-19 on Education. *Electronic International Interdisciplinary Research Journal*. Volume–XI, Issues– II, 148-155.
22. Supanekar Santosh P. and **Muniv Yojana S.** (2022). Sustainable Management of Pesticides. *International Journal of Zoological Investigations*. Vol. 8, No. 2, 827-836.
23. **Muniv Yojana S.** (2022). Toxicological Classification of Agricultural Pesticides - An Overview. *International Journal of Zoological Investigations*. Vol. 8, No. 2, 795-804.
24. Santosh P. Supanekar and **Yojana S. Muniv** (2024). Deforestation of Mangrove Ecosystem and

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Livelihoods of the Coastal Communities: A Comprehensive Review. *International Journal of Zoological Investigations* Vol. 10, No. 1, 775-782.

**25. Yojana S. Muniv** and Santosh P. Supanekar (2024). Microplastics: Classification, Sources, Characterization, Fate, and Control Measures. *Uttar Pradesh Journal of Zoology* Volume 45, Issue 5, Page 136-144, 2024; Article no. UPJOZ.3283 ISSN: 0256-971X (P).

**26. Yojana S. Muniv** (2024). Impact of Marine Pollution on Human Health and Well-being. *International Journal of Zoological Investigations* Vol. 10, No. 1, 855-862 (2024).

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**Mr. L. Q. Rehman Khan**

1. Surendra Prasad, Manda Anil Mhatre and **Khan Laiqur Rehman Moiz** (2024). Ecological Role of Birds. *The Agriculture Magazine* Volume-3, Issue-9, 509-512.
2. **Khan L. Q. Rehman** and Vinda Manjramkar (2024). Seasonal variation of zooplanktonic community structure in Nilje lake, Dombivli. *J. Exp. Zool. India Vol. 27, No. 2*, 1989-1994.
3. Shruti R. Hiremath, **Khan Laiqur Rehman Moiz** and Anjali L. Yadav (2024). Insect Cell Culture: An Insight. *The Agriculture Magazine*. Volume-3, Issue-12, 354-357.
4. Manda Anil Mhatre, and **Khan Laiqur Rehman Moiz** (2024). Microscopic Menace: The Impact of Mites on Agricultural Crop, *The Agriculture Magazine* ISSN :2583-1755 Vol.03, issue :11-page no.448-451.





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**Dr. Aparajita Banerjee**

1. Saurabh Dalvi, Aishwarya Chettiar, **Aparajita Banerjee** (2020). Extraction of Caffeine from Coffee and Effect of Coffee on Goat Stomach. *International Journal of Creative Research Thoughts, Volume 8, Issue 8*.
2. Samuel Rizal, Fizree, H.M., Chaturbhuj Saurabh, Gopakumar, D.A., Aprilia, N.A., Hermawan, D., **Aparajita Banerjee**, Fazita, M.R., Haafiz, M.K.M. and Khalil, A.H. (2019). Value-added utilization of agro-waste derived oil palm ash in epoxy composites. *Journal of Renewable Materials, 7*(12), pp.1269-1278.
3. **Aparajita Banerjee**, Archana Rai, Suprasanna Penna and Prasad Variyar (2016). Aliphatic glucosinolate synthesis and gene expression changes in gamma-irradiated cabbage. *Food chemistry, 209*, 99-103.
4. **Aparajita Banerjee**, Suchandra Chatterjee, Prasad Variyar and Arun Sharma (2016). Shelf life extension of minimally processed ready-to-cook (RTC) cabbage by gamma irradiation. *Journal of food science and technology, 53*(1), 233-244.
5. **Aparajita Banerjee**, Suprasanna Penna, Prasad Variyar and Arun Sharma (2015). Gamma irradiation inhibits wound induced browning in shredded cabbage. *Food chemistry, 173*, 38-44.
6. **Aparajita Banerjee**, Suprasanna Penna and Prasad Variyar (2015). Allyl isothiocyanate enhances shelf life of minimally processed shredded cabbage. *Food chemistry, 183*, 265-272.
7. **Aparajita Banerjee**, Suchandra Chatterjee, Prasad Variyar and Arun Sharma (2014). Effect of post-harvest radiation processing and storage on the volatile oil composition and glucosinolate profile of cabbage. *Food chemistry, 151*, 22-30.





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## DEPARTMENT OF ZOOLOGY **RESEARCH PUBLICATIONS** **BOOK AND CHAPTER IN BOOK**

<b>Book ISBN number</b>		
BIOINFORMATICS	Dr. M.A.Mhatre Prof. Vinda Manjaramkar	Alpha International Publication (AIP) ISBN978-93-5762-086-4
Fundamentals of Zoology Diseases, Evolution, Behavior and Animal Cell structure	Dr. Manda Anil Mhatre, Dr. Nitin Devendra Padwal, Prof. Dr. Vinda Manjaramkar, Dr. Atul Shivajiorao Humbe	AGPH Books (AG Publishing House) ISBN:978-93-49028-38-8
Applied Zoology: Animal Genetics, Ecology, Structure and Medical Physiology	Dr. Mrs. Manda Anil Mhatre, Dr. D. Sandhia, Dr. Gantaloo Uma sukaiya, Dr. R. Indira	AGPH Books (AG Publishing House) ISBN: 978-93-49028-51-7
<b>Chapter in book</b>		
Ultrastructural Investigations on the pituitary- gonadal Axis 1 <sup>st</sup> edition 2023	Dr. Mrs. Manda Anil Mhatre,	ISBN-10 9819932757 ISBN-13 978-9819932757
Mechanical and Physical Control Methods for Pest Suppression authored by	Manda A. Mhatre, Vinda Manjramkar and Khan Laiqur Rehman Moiz	Integrated Pest Management Strategies by Textify Publishers ISBN: 978-93-48217-58-5

## **LIST OF PATENTS PUBLISHED**

### **Dr. Manda Anil Mhatre**

<b>Sr. No.</b>	<b>Patent Name</b>	<b>Title of Invention</b>	<b>Patent Number</b>	<b>Date &amp; Year of Publication</b>	<b>Date &amp; Year of Grant of Patent</b>
<b>01</b>	Indian Patent	Advanced chamber to monitor fish health	383700-001	12/04/2023	12/04/2023
<b>02</b>	Indian Patent	Device for Marine Sponge Bacteria Enzyme Extraction	400996-001	30/11/2023	-