



# Yogeshwari Mahavidyalaya Ambajogai



**Dr. Ganesh Suryawanshi,**

**Assistant Professor**

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<b>Department</b>	Department of Zoology
<b>Institute</b>	Yogeshwari Mahavidyalaya, Ambajogai
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<b>Date of Birth</b>	03/05/1971
<b>Sex</b>	Male
<b>Qualification</b>	M. Sc. Ph. D. Postdoc, (Zoology)
<b>Title of Thesis</b>	Impact of heavy metals on oyster <i>Crassostrea cattuckensis</i> (Newton and Smith) from coast of Maharashtra at Marine Research Laboratory, of Dr. B. A. M. University, Aurangabad
<b>Postdoc Research</b>	Development of Cryopreservation techniques in Malacology of India

## Professional Experience

### Project conducted: (as a Principal Investigator)

<b>Name of Project</b>	<b>Achievements</b>	<b>Funding Agency</b>
Toxicological impact of heavy metals on physiology and biochemistry of fresh water bivalve <i>Lamellidens marginalis</i>	Analyzed heavy metals, biochemistry, and reproductive changes due to toxic substances	UGC New Delhi

	Studies on biodiversity and its conservation of bivalve mollusks from large dams of Marathwada Region	Impact of pesticides, fertilizers and industrial effluents on diversity of different species of bivalves in Marathwada	DST New Delhi
	The freshwater mussels in Godavari river of Maharashtra	Variation of species and locations, Population, status, biogeochemical diagnostics, conservation efforts and challenges	DST New Delhi
<b>Teaching Experience UG and PG</b>			
<b>Division</b>		<b>Paper Titles</b>	
Under Graduate Level – 12 Years		Non- Chordates, Genetics, Animal Physiology, Biochemistry and Endocrinology, Ecology and Evolution	
Post Graduate Level- 12 Years		Structure and Function of Invertebrates, Techniques and Tools for Biologist, Endocrinology and mammalian physiology of Reproduction	
Research Guidance		Two research students registered for Ph. D. degree on the topics of Freshwater bivalves from different places in Marathwada	
<b>Training attended</b>			
<b>Topic</b>	<b>Thrust area</b>	<b>Organization</b>	
Atomic Absorption Spectrophotometer	A training on fundamentals, operating and testing of samples through the Atomic Absorption Spectrophotometer	Chemito Industries, Nasik, Maharashtra, India for Three days	
Electrophoresis Equipment	Training on electrophoresis analysis of protein from different	Department of Biochemistry, Dr. Babasaheb Ambedkar	

		body parts of bivalve mollusks	Marathwada University, Aurangabad, Maharashtra, India for Three days
	Role of Scientists and Technologists in Biodiversity and Conservation	Wild life conservation, aquatic and terrestrial biodiversity, causes and challenges	Department of Science and Technology New Delhi at Wildlife Institute of India, Dehradun for Six days
	Infosys training		
	<b>Peer Recognition</b>	 <p><b>Awarded by Young Scientist</b>, 2010 by contribution on biodiversity study and conservation methodologies from dams of Marathwada (Department of Science and Technology New Delhi)</p> <ul style="list-style-type: none"> <li>• <b>Recognized as a P. G. teacher</b>-in subject Zoology by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India. (Science/124 dated 01/06/2012)</li> <li>• <b>Recognized Research Guide</b>-for M. Phil and Ph.D. degree in Zoology, by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India, (PG/Ph.D/Science/2014/8512)</li> <li>• <b>Short Stay Research Fellowship</b>-Under Research Excellence Program India – Spain (PIEN) 5<sup>th</sup> May 2014 to 5<sup>th</sup> of June 2014 by University of Santiago de Compostela, Spain</li> <li>• <b>Recognized Post Doctorate Fellowship by Erasmus Mundus Lot-13 Project -EUPHRATES</b> Coordinating by University de Santiago de Compostela, Spain, from 22<sup>nd</sup> October 14 to 21<sup>st</sup> April 2015.</li> </ul>	

**Member of  
Scientific  
Associations**

- Indian Association of Aquatic Biologists, (IAAB), India
- Indian Society for Comparative Animal Physiology, (ISCAP), India
- International Society of Zoological Sciences, (ISZS), China
- International Society for Environmental Information Sciences (ISEIS), Canada
- Member on Internal Quality Assurance Cell (IQAC), of Yogeshwari Education Society's Yogeshwari Mahavidyalaya, Ambajogai from July 2013 to till date.
- Member on Advisory Board of Center for Coastal and Marine Biodiversity of Dr. Babasaheb Ambedkar Marathwada University, Bhatye Ratnagiri, from 2013 to till date.

**Research  
Contribution**

- During July 1998- June 2000 worked as senior research fellow in the research scheme "Impact of heavy metals and their detoxification mechanism from bivalve mollusks from Maharashtra coast
- July 2002- June 2003 worked as a field assistant in the project "Potential Fishing Zone" Indian National Center for Ocean Information Services, Hyderabad
- Three years worked as a Museum assistant in the Department of Zoology, Dr. B. A.M. University, Aurangabad.
- Basic work was done, the Survey of molluscan species for the Taxonomic identification, Ecology and biodiversity, environmental parameters and histological study of mollusks

**Publications**

## Research Papers (Journal)

- **Suryawanshi, G. D.;** Z. A. Lanjekar and K. B. Shejule (2005): Changes in water parameters on oyster habitat in Bhatye estuary at Ratnagiri coast of Maharashtra in the Journal of Indian J. Environ. Ecoplan., 10 (3), 663-666.
- **Suryawanshi, G. D.;** Z. A. Lanjekar and K. B. Shejule (2005): Electrophoretic protein patterns in different body parts of edible oyster from Ratnagiri coast of Maharashtra in the J. of Indian J. Environ. Ecoplan., 10 (3), 921-926.
- **Suryawanshi, G. D.;** and Z. A. Lanjekar (2006): Zinc and cadmium toxicity to estuarine rock oyster *Crassostrea cattuckensis* on Ratnagiri coast in the Journal of Nature Environment and Pollution Technology, 5 (3), 436-467.
- **Suryawanshi, G. D.** (2006): Accumulation and depuration of cadmium in oyster *Crassostrea cattuckensis* from Bhatye estuary in Ratnagiri coast. J. of Nature Environment and Pollution Technology, 5 (4), 569-574.
- **Suryawanshi, G. D.** (2006): Zinc and cadmium content in the estuarine oyster from Ratnagiri coast of Maharashtra. J. Ecotoxicol. Environ. Monit. 16 (6), 581-585.
- **Suryawanshi, G. D.** and Mane, U.H. (2007): Changes in glycogen during cadmium accumulation and depuration of rock oyster *Crassostrea cattuckensis*. J. of Aquatic Biology.22 (1), 173-177.
- **Suryawanshi, G. D.** and Mane, U.H. (2007): Base levels of zinc and cadmium in edible oyster *Crassostrea cattuckensis* from Ratnagiri coast. J. Exp. Zool. India.10 (2), 345-348.
- **Suryawanshi, G. D.** (2007): Seasonal variations of heavy metals in rock oyster *Crassostrea cattuckensis* from Ratnagiri coast. The J. of Indian Journal of Comparative Animal Physiology, 25 (1), 20-24.
- **Suryawanshi G. D.** (2007): Protein alteration in oyster *Crassostrea cattuckensis* (Newton and smith) during cadmium accumulation and its detoxification process. J. of Flora and Fauna, 13 (2), 419-423.
- **Suryawanshi, G. D.** (2008): Changes in lipid content of oyster *Crassostrea cattuckensis* during accumulation and depuration of mercury. J. Experimental Zoology, India.11 (1), 161-164.
- **Suryawanshi, G.D.** and Mohite V. T. (2007): Impact of zinc on glycogen level of rock oyster *Crassostrea cattuckensis*. J. of Ecophysiology and Occupational Health, 129-132.
- **Suryawanshi, G. D.** and U. H. Mane (2009): Seasonal changes in biochemical

content in edible oyster *Crassostrea cattuckensis*. The J. of Indian Journal of Comparative Animal Physiology, 27 (1), 44-47.

- **Suryawanshi, G. D.** and U. H. Mane (2009): Seasonal variation of heavy metals in the edible clam *Meretrix meretrix* from Ratnagiri coast. J. Ecotoxicol. Environ. Monit. 19 (6), 555-560.
- **Suryawanshi, G. D.**, A. M. Shaikh and V. R. Ragde (2011): Heavy metals load in Clam *meretrix meretrix* from Ratnagiri coast. The J. of exp. Zool. India, 14 (2), 352-355.
- **Suryawanshi, G. D.**, A. M. Shaikh and U. H. Mane (2011): Heavy metals concentration in rock oyster *Crassostrea cattuckensis* from Ratnagiri coast of Maharashtra, J. of Ecophysiol. and Occupati. Health, India 11(3&4), 417-422.
- **Suryawanshi, G. D.**, A. M. Shaikh and U. H. Mane (2012): Impact of zinc on protein content of oyster *Crassostrea cattuckensis* from Ratnagiri coast J. of Ecotoxicol. and environ. monitoring Palani, India 22, (3&4), 415-418.
- **Suryawanshi, G. D.**, A. M. Shaikh and U. H. Mane (2012): Effect of heavy metals on glycogen level of freshwater bivalve *Lamellidens marginalis* Journal of Ecobiology, Palani, India, 22(4), 323-328.
- Y. A. Shaikh, **Suryawanshi, G. D.** and U. H. Mane (2012): Histopathological changes in the hepatopancreas of *Lamellidens marginalis* exposed to cadmium in winter. Journal of International Multidisciplinary Research, 2(6):41-43.
- Y. A. Shaikh, **Suryawanshi, G. D.** and U. H. Mane (2012): Behavioural changes of freshwater bivalve molluscs *Lamellidens marginalis* due to acute toxicity of cadmium. DAV International Journal of Science, 1(2), 103-106.
- **Suryawanshi, G. D.** and A. M. Shaikh (2012): Changes in glycogen during mercury accumulation and depuration of rock oyster *Crassostrea cattuckensis*, National Journal of Life Sciences, 09(1), 87-90.
- **Suryawanshi, G. D.** and U. H. Mane (2012): Rate of accumulation and depuration of zinc on edible oyster *Crassostrea cattuckensis*, from Ratnagiri coast. J. of Flora and Fauna, 18 (1), 99-104.
- Anil Kurhe, Miguel A. Rodríguez and **Suryawanshi G. D.** (2014): Vertical Distribution and Diversity of Gastropods Molluscs from Intertidal habitats of the Ratnagiri coast of Maharashtra. Intern. Res. J. of Nat. and Appl. Sci, 1, -6, 1-13.

- **G. D. Suryawanshi**, A. R. Kurhe and Miguel A. Rodriguez (2015): Mercury Exposure Produce Changes in Protein Content in Different Body Parts of Oyster *Crassostrea Cattuckensis* (Newton and Smith), *J. of Environ. Sci., Comp. Sci. and Eng. Tech.*.4, 1, 0065-0071.
- P. B. Sirsat, **G. D. Suryawanshi** and Lamture S. V. (2015): Groundwater Quality Assessment of Beed City, Maharashtra, India, *S. V. J. Environ. Res. Develop.* (9) 03,613-616.
- **G. D. Suryawanshi and Deshpande P. A.** (2016): Changes in protein in different body parts of bivalve *L. marginalis* due to heavy metals. *Int. J. of Trends in Fisheries Research*, 5: (3), 25-29.
- **G. D. Suryawanshi**, Miguel A. Rodriguez and A. R. Kurhe (2016): Acute Toxicity of heavy metals ( $ZnCl_2$ ,  $CuSO_4$  and  $HgCl_2$ ) to freshwater bivalve *L. marginalis* and changes in protein and lipid contents. A proceeding of national workshop on Advances of Research Methodology in Higher education, pp, 55-66.
- **G. D. Suryawanshi and Deshpande P. A.** (2016): Impact of heavy metals ( $ZnCl_2$ ,  $CuSO_4$  and  $HgCl_2$ ) on lipid content in different body parts of bivalve *L. marginalis*. *Int. J. of Trends in Fisheries Research*, 5: (3), 30-34.
- **G. D. Suryawanshi** (2017): Bioaccumulation of heavy metals in freshwater mussels from Jayakwadi dam, India shows specificity of tissue and species *Biochem. Cell. Arch.* (17), 1, 301-308.
- **Suryawanshi, G. D.** (2017): Bioaccumulation and metabolic effects of zinc on marine rock oyster *C. cattuckensis* (Newton and Smith), *J. of Flora and Fauna*, 23 (1), 165-172.
- **Suryawanshi, G. D.** (2017): Biochemical variation in different body parts of freshwater bivalve *L. marginalis*. *International Journal Trends in Biotechnology Research*, 6 (1), 25-31.
- **Suryawanshi, G. D.** (2017): Seasonal changes in biochemical composition of fresh water bivalve *L. marginalis*. *International Journal in Physical and Applied Sciences*, 4(7), 30-41.
- **G. D. Suryawanshi** (2017): Bioavailability of waterborne heavy metals in freshwater mussels from large dams of Marathwada, India, *Biochem. Cell. Arch.* (17), 2, 625-631.
- **G. D. Suryawanshi** (2017): Seasonal changes of biochemical composition in

bivalves from Raigadh District, west coast of Maharashtra. International Multidisciplinary Research Journal, Research Directions, 5, (5),1-8.

- **G. D. Suryawanshi** (2017): Enzyme activity in fresh water bivalve *Lamellidesn marginalis* in relation to temperature. Monthly Multidisciplinary Research Journal Review of Research,7, (2), 1-7
- **G. D. Suryawanshi** and P. B. Sirsat (2018): Heavy metals Toxicity To freshwater bivalve *Lamellidens corrianus* and effect on biochemical contents. Journal of Research and Development, Special Issue pp. 1-5

### In Book

- **Suryawanshi, G. D.** (2007): Impact of zinc and cadmium on hepatopancreas and gonads of estuarine oyster *Crassostrea cattuckensis*. In book Advances in Aquatic Ecology by V. B. Sakhare, Daya Publication, New Delhi,173-183.
- **Suryawanshi, G. D.**, Y. A. Shaikh and U. H. Mane (2011): Lipid changes in oyster *Crassostrea cattuckensis* due to accumulation and depuration of heavy metals. In book Limnology (Current perspectives) by V. B. Sakhare, Daya Publication, New Delhi, pp 117-122.
- **Suryawanshi, G. D.** (2013): Heavy metal toxicity to freshwater bivalve *Lamellidens corrianus*. In book Emerging trends in Fisheries and Aquaculture by V. B. Sakhare, Daya and Astral Publication, New Delhi,159-166.

### Participations in the Congresses

- \* National Seminar on, "Perspective of integrated coastal research basic and applied aspects of biodiversity" at Marine Research Laboratory, Bhatye, Ratnagiri, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 23 to 26<sup>th</sup> Oct, 1999.
- \* National Seminar on "Sustainable fisheries and aquaculture for nutritional security" held at Chennai from 30, Nov. to 2nd Dec. 2000.
- \* National Seminar on "Zoology for 21<sup>st</sup> Century" 7 to 9<sup>th</sup> Dec. 2000 at Department of Zoology, Goa University, Goa.



- \* National workshop on “Aquaculture medicine at center for fish disease diagnosis and management” Cochin University of Science and Technology, Cochin, 18 to 20<sup>th</sup> Jan, 2001.
- \* Seminar on “Coastal and Marine Biodiversity and bio potential” at Marine Research Laboratory, Bhatye, Ratnagiri, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 24<sup>th</sup> June, 2001.
- \* Workshop on “Potential fishing Zone to forecast the fishing activity and to potentiate the species diversity for sustainable utilization and its conservation” at Marine Research Laboratory, Bhatye, Ratnagiri, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 4<sup>th</sup> Nov 2001.
- \* National Conference on “Living resources for bio-industries” at Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 24 June, 2001.
- \* National conference on “Emerging pollutants: Impact on health, agriculture and environment” at Department of Environmental Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 29 to 31st January 2004.
- \* National conference on “Fish and their environment” held at Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 9-11<sup>th</sup>Feb, 2004.
- \* Regional level seminar on selected topics of Revised syllabus in Zoology At under - graduate level at Dept of Zoology Maulana Azad College, Aurangabad on 10-11 September 2004 (Sponsored by U.G. C.)
- \* One day seminar-cum -Workshop on “Scope and Pattern of Teaching UGC, s New Syllabi” organized on 22nd January 2005 in the department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- \* 16<sup>th</sup> All India Congress of Zoology and National Symposium On Recent Advances In Animal Research With Special Emphasis On Invertebrates at Dept. of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 21-23, Oct. 2005, 150.

- \* Regional one day seminar cum workshop on UGC New syllabus of Zoology: - Scope for correlative interaction in teaching UG and PG courses Feb. 27, 2006 held in the dept. of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- \* National conference of Indian Society For Comparative Animal Physiology on Frontiers in Applied Animal sciences at Shivaji University, Kolhapur on October 16-18, 2006.
- \* National conference on Environmental pollution and Toxicology held at Dept. of Zoology, Thakur College of Science and Commerce Kandivali, Mumbai on 22-23 December 2006.
- \* Workshop on water quality assessment” organized by Center for Coastal and Marine Biodiversity (CCMB), Ratnagiri on 5- 6, June 2008.
- \* Two days National Conference on Biodiversity and Physiology of Aquatic Resources in Sustainable Development for Rural Livelihood, Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 24-25 October, 2009.
- \* Three days National Conference on “Present Scenario of Environmental pollution and its effects on living organisms”. Department of Zoology, Government College of Arts, Commerce and Science, Aurangabad on 09-11 December, 2009.
- \* Two days National Conference on “Current Perspectives in Limnology” Department of Zoology, Yogeshwari Mahavidyalaya Ambajogai from 25-26 December, 2009.
- \* Two Day Seminar- cum Workshop on Alternatives to animal use in Medical and Non - Medical studies’ at Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in collaboration with MGDC Trichrrapalli, DZ Foundation Switzerland, ICARE, Italy and Umbo University, Ethiopia on 20-21 September 2010.
- \* One days seminar on “Biotechnology for Better Tomorrow” Department of Microbiology, Yogeshwari Mahavidyalaya Ambajogai from 07 January, 2012.
- \* Two days National Conference on “Emerging trends in fisheries and Aquaculture”

Department of Zoology, Yogeshwari Mahavidyalaya Ambajogai from 27-28 September, 2012.

- \* Three days International Conference on “The emerging trends and Challenges in Science and Technology organized by, Department of Zoology, Padmashri Vikhe Patil College of Arts, Science & Commerce, Pravaranagar, Dist. Ahmednagar from 20-22, August 2014.
- \* Two days national workshop on Advances of Research Methodology in Higher education organized by Arts, Science & Commerce College, Satral, Dist. Ahmednagar from 22-23 January 2016.
- \* One day national level Interdisciplinary Seminar on “ Relevance of Gandhian Thoughts in Present Era” at Swami Ramanand Teerth Mahavidyalaya, Ambajogai on 24<sup>th</sup> March, 2017
- \* One day workshop on “Revised Accreditation Framework of NAAC” at Swami Ramanand Teerth Mahavidyalaya, Ambajogai on 9<sup>th</sup> September, 2017.
- \* Two days state level Seminar on” Recent Advances in Life Sciences for Sustainable Development” organized by Arts, Science & Commerce College, Satral, Dist. Ahmednagar from 19-20 January 2018.