

Curriculum Vitae  
Monalisa Mishra

---

Corresponding Address

Dr. Monalisa Mishra  
Assistant Professor  
Dept. of Life Science  
NIT Rourkela  
Rourkela-769008, ODISHA, India  
mishramo@nitrrkl.ac.in  
monalisamishra2010@gmail.com  
Phone-

EDUCATIONAL QUALIFICATIONS:

2012-2014  
Assistant Professor at BITS Pilani, Rajasthan, India

2010- 2012  
Post-Doc at MPI-CBG, Dresden, Germany

2008- 2010  
Post-Doc at Indiana University, Bloomington, Indiana, USA

2007 – 2008  
Post-Doc at University of California, San Diego, CA, USA

2004 - 2007  
PhD student at International University Bremen, Bremen, Germany  
Dissertation: “Arthropod Eye Ultrastructure under Different Photic Conditions”

COURSES TAUGHT

General biology, Animal physiology, Bio lab, Instrumental method analysis,  
Developmental biology, Cell Biology.

PUBLICATIONS

1. Mishra M. A Simple Way to Investigate the Drosophila Hearing Organ: The Johnston’s Organ, Journal of Microscopy and Ultrastructure 2014: In Press

2. Mishra M. A Close Look at a Nest of Purple Sunbird *Nectarinia asiatica*, International Journal of Integrative Biology 2014: In Press
3. Mishra M. Transformation of Colourful Pattern of Eyespot in Peacock Wing, Current Science 2014: In Press
4. Mishra M. The ultrastructure of a ocelli of a pea aphid *Acanthisiphon pisum*. The Journal of Zoology Studies 2014: 1(1); 5-10 (Invited for inaugural issue).
5. Mishra M. Eye ultrastructure of three ecologically diverse Elaterid beetle species. Entomologia Generalis 2013; 34(4) 235-247.
6. Mishra M. Eye ultrastructure investigation of *Scaphidium japonum* Reitter (Coleoptera, Staphylinidae: Scaphidiidae). Journal of Entomology and Zoology Studies 2013; 1(2), 8-16 (Invited).
7. Mishra M., Rentsch M, Knust E , Crumbs regulates polarity and prevents light-induced degeneration of the simple eyes of *Drosophila*, the ocelli. European Journal of Cell Biology 2012; 91(9):706-16.
8. J.B Phillips, B Blanco, JJ Lentz, A Tallafuss, K Khanobdee, S Sampath, Z Jacobs, PF Han, M Mishra, DS Williams, BJ Keats, P Washbourne, Westerfield M. Müller glial cell expression of the Usher 1C protein harmonin is required for photoreceptor synapse development and function. Disease Models & Mechanisms, 2011;4(6):786-800
9. M. Mishra, A. Oke, C. Lebel, E.C. McDonald, Z. Plummer, T.A. Cook, A.C. Zehhof, Pph13 and Orthodenticle define a dual regulatory pathway for photoreceptor cell morphogenesis and function. Development, 2010, 137(17):2895-904.
10. V.B. Meyer-Rochow and M. Mishra, A six-rhabdomere, open rhabdom arrangement in the eye of the chrysanthemum beetle *Phytoecia rufiventris*: some ecophysiological predictions based on eye anatomy. Biocell 2009, 32 (2): 115-120.
11. S. G. Jacobson, A. V. Cideciyan, T. S. Aleman, A. Sumaroka, A. J. Roman, L. M. Gardner, H. M. Prosser, M. Mishra, N. T. Bech-Hansen, W. Herrera, S. B. Schwartz, X. Liu, W. J. Kimberling, K. P. Steel and D. S. Williams, Usher syndromes due to MYO7A, PCDH15, USH2A or GPR98 mutations share retinal disease mechanism. Human Molecular Genetics 2008, 17 (15): 2405-2415.
12. M. Mishra and V. B. Meyer-Rochow, Eyes of male and female *Orgyia antiqua* (Lepidoptera; Lymantriidae) react differently to an exposure with UV-A. Micron, 2008, 39(4): 471-480.
13. M. Mishra and V. B. Meyer-Rochow, Fine Structural Description of the Compound eye of Madagascar 'Hissing Cockroach' *Gromphadorhina portentosa* Schaum, 1853 (Dictyoptera: Blaberidae), Insect Science, 2008, 197, 197-210.

14. U. R. Acharya, M. Mishra, J. K. Patro, M.K. Panda. Effect of vitamins C and E on spermatogenesis of cadmium induced Swiss mice. *Reproductive toxicology*, 2008, 25, 84-88.
15. V. B. Meyer-Rochow and M. Mishra, Structure and putative function of dark- and light-adapted as well as UV-exposed eyes of the food store pest *Psyllipsocus ramburi* Sélys-Longchamps (Insecta: Psocoptera: Psyllipsocidae), *Journal of Insect Physiology*, 2007, 53(2): 157-169.
16. M. Mishra and V. B. Meyer-Rochow, Eye Ultrastructure in the Pollen-Feeding Beetle, *Xanthochroa luteipennis* (Coleoptera: Cucujiformia: Oedemeridae), *Journal of Electron Microscopy*, 2006, 55(6): 289-300.
17. M. Mishra and V. B. Meyer-Rochow, Fine structure of the compound eye of the fungus beetle *Neotriplax lewisi* (Coleoptera: Cucujiformia: Erotylidae), *Invertebrate Biology*, 2006, 125 (3): 265-278.
18. M. Mishra, A. Jeffs and V. B. Meyer-Rochow, Eye structure of the phyllosoma larva of the rock lobster *Jasus edwardsii* (hutton, 1875): How does it differ from that of the adult? *Invertebrate Reproduction and Development*, 2006, 49 (3): 213-222.
19. U.R.Acharya, M.Mishra, R.R.Tripathy, I.Mishra, Testicular dysfunction and antioxidative defense system of Swiss mice after chronic acid exposure. *Reproductive Toxicology*, 2006, 22, 87-91.
20. U.R.Acharya, M.Mishra, I.Mishra, R.R.Tripathy, Potential role of vitamins in chromium induced spermatogenesis in mice, *Environmental Toxicology and Pharmacology*, 2004, 15, 53-59.
21. M.Mishra, U.R.Acharya, Protective action of vitamins on the spermatogenesis in lead treated swiss mice, *Journal of Trace Element in Medicine and Biology*, 2004, 18, 2, 173-178.
22. U.R.Acharya, M.Mishra, I.Mishra, Status of antioxidant defense system in chromium-induced swiss mice tissues. *Environmental Toxicology and Pharmacology*, 2004, 17, 3, 117-123.
23. U.R.Acharya, R.M.Rathore, M.Mishra, Role of Vitamin C on lead acetate induced spermatogenesis in Swiss mice, *Environmental Toxicology and Pharmacology*, 2003, 13, 9-14.
24. U.R.Acharya, S.Acharya, M.Mishra, Lead acetate induced cytotoxicity in male germinal cells of Swiss mice, *Industrial Health*, 2003, 41, 291-294.
25. U.R.Acharya, S.S.Das, M.Mishra, Role of Vitamin C and E on sperm count and abnormality in Cadmium chloride treated Swiss mice, *Cytologia*, 2002, 67, 47-52.

## Book Chapters

1. M Mishra, Knust E. Analysis of the Drosophila compound eye with light and electron microscopy. Methods in Molecular Biology Series, 2013,161-82.
2. Cook T, Zelhof A, Mishra M, Nie J. 800 facets of retinal degeneration. Animal Models of Human Disease, Prog Mol Biol Transl Sci. 2011;100:331-68.