

## BIODATA



Dr. Maya Shedpure

Name: Dr. Maya Shedpure

Date of Birth: 08 September, 1963

Present post: Professor in Zoology

Institution: Department of Zoology, Govt. D.B. Girls' P.G. (Auto.) College, Raipur- 492001

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Academic (M.Sc. onwards) and professional career degree/position held:

S.NO	Degree/position held	Year	University/Institution
1.	M.Sc. in Zoology	1984	Pt. Ravisankar Shukla Univ. Raipur 10 <sup>th</sup> position in Merit
2.	Lecturer, Zoology	1985	Govt. College, Bhatapara, Raipur
3.	Asst. Professor, Zoology	1988	Govt. D.B. Girls' P.G. (Auto.) College, Raipur-492001
4.	Ph.D. in Zoology	1995	Pt. Ravisankar Shukla Univ. Raipur
5.	Professor, Zoology	2006	Govt. D.B. Girls' P.G. (Auto.) College, Raipur-492001

**Area of Interest:** Pineal biology, Chronobiology, Ethology, Biostatistics.

**Award won:** Teacher fellowship (UGC sponsored), 1993-1994

**Recognized as Ph.D. supervisor, Pt. Ravishankar Shukla University, Raipur, June 2000**

## **Academic contribution:**

### **1. Publications (Number):**

**Books (06)**

**Research Paper (31)**

**General articles (07)**

**Conference paper (60)**

**Conference attended, National (51), International (07)**

**2. Invited talk delivered in national and international conferences (27)**

**3. Guest lecture delivered (12)**

**4. Chaired the scientific session in national/international conferences (20)**

**5. Ph. D. Guidance:** Ph.D. awarded: 05, Ph.D.thesis submitted: 02

### **6. Key contribution:**

**Established a well equipped air-conditioned chronophysiology laboratory** in the department of zoology, Govt. D.B. Girls' P.G. College, Raipur (sponsored by DST, New Delhi in the form of major research project

**Established collaboration of the laboratory with** Warsaw University, Poland; Visva bharti University, Santiniketan; Banaras University, Varanasi, RTM University, Nagpur; Pt. Ravishankar Shukla University, Raipur

**7. Convener of organizing committee for Conference/workshop:** National 03, International 01

Member, advisory board for conferences/symposium: National 07; International 04

**8. Principal Investigator:** Major research project (01); Minor research project (03)

### **9. Academic Membership:**

**Co-opted member**, Executive council, Indian Society for Comparative Endocrinology, 2012-present

**Secretary**, Indian Pineal Study group, 2002-present

**Life member**, Indian society for Chronobiology, 1993-present

**Life member**, Indian society for Environmental Endocrinology, 1994-present

**Life member**, Journal of Parasitology and Applied animal biology, 1997-present

**Life member**, Society for Ecological and Environmental Development, 1994-present

**Life member**, Indian Society for Comparative Endocrinology, 2010-present

**Member, Board of Studies Zoology**, Govt. Science College, Durg, 2010-2012

**Member, Board of Studies Zoology**, Govt. Science College, Raipur, 2012-2014

**Member, Board of Studies Zoology**, Govt. Girls' College, Bilaspur, 2012-2014

**Chairperson Board of studies Zoology**, Pt. Ravishankar Shukla University , 2014-2017

**Member academic council**, Pt. Ravishankar Shukla University , 2014-2017

**Member executive council**, Pt. Ravishankar Shukla University, Raipur, 2014-2017

**Country visited (academic)**: Germany, France, Italy, Switzerland, Thailand, Hongkong

**Ph.D. awarded:**

1. Ms. Yogita Yadu (1998-2003). Effect of pinealectomy in regulation of circadian rhythm in air-gulping activity in *Clarias batrachus*
2. Ms. Richa Tikariha (2002-2006). Regulatory role of melatonin on the surfacing activity in freshwater catfish, *Clarias batrachus*
3. Ms. Swati Sahu (2004-2008). Role of pineal and eyes in the regulation of temporal organization of on air-breathing rhythm in an Indian catfish, *Clarias batrachus*
4. Mr. Manoj Mahapatra (2004-2008). Residual fluoride toxicity to community ecosystem
5. Ms. Neha Jain (2007-2011). Effect of magnetic field exposure on some physiological variables in *Clarias batrachus*
6. Ms. Preeti Karanjaonkar (2013-2018). Effect of sleep on the level of salivary melatonin in human
7. Ms. Mamta Ratre (2013-2018). Effect of different melatonin containing plant food on plasma melatonin and vitellogenin rhythm in relation to ovarian cycle in female *Clarias batrachus*

**Country visited**: Germany, France, Italy, Switzerland, Thailand, Hongkong

**Convener of organizing committee for Conference/workshop**: National 03, International 01

Member, advisory board for conferences/symposium: National 07; International 04

**Principal Investigator:** Major research project (01); Minor research project (03)

**Principal Investigator.**

1. Major Research Project (Duration 3 years from 1998-2001): Funded by Department of Science and Technology, New Delhi, entitled "Does pineal regulate circadian rhythm in air gulping behaviour of the Indian walking catfish?" Amount sanctioned: Rs. **8,40,000=00**.

2. Minor Research Project (Duration 3 years from September, 2008-11): Funded by Chhattisgarh council of Science and Technology, Raipur, entitled 'Effect of fluoride on body weight gain, gonadosomatic index and ecophysiological variables in selected edible freshwater fish'. (**1,99,800**)

3. Minor Research Project (Duration 2 years from August, 2014-2016): Funded by University Grants Commission, Bhopal. Effect of magnetic field exposure on rhythmic profile of vitellogenin and melatonin in Catfish (**2,88,000**).

**Organizing Secretary/Convener:**

1. National Symposium on Comparative Physiology and Endocrinology, 27-28 January, 1997

2. National Symposium on current trends in pineal research and 4<sup>th</sup> IPSP meeting, 5-7 October, 2006

3. National workshop on instrumentation and biotechniques. 09-14 September, 2013

4. International colloquium on endocrinology and physiology. 29-30 September, 2014

**List of Publications:**

**Books**

Reproductive Biology, 1996

Chronophysiology, 1998

Text book of Zoology B.Sc. II, Yugbodh Publication, 2004

Text book of Zoology B.Sc. III, Yugbodh Publication, 2005

Recent Trends in Pineal Research, 2006

Text book of Zoology B.Sc. I, Yugbodh Publication, 2007

### (i) Research Papers:

1. **Shedpure M.** and Pati A. K. (1991). Motor activity rhythm and its response to thyroxine: Analysis of frequencies. *Proc.2<sup>nd</sup> Asia and Ocenia society for Comparative Endocrinology*. New Delhi, pp.290-291.
2. **Shedpure M.** and Pati A. K. (1992). Metabolic response to melatonin in a freshwater catfish. *Neuroendocrinology Letters*. **14**, 400.
3. **Shedpure M.** and Pati A. K. (1993). Melatonin-induced metabolic changes in a freshwater catfish. *Journal of Ravishankar University*.**6**, 29-36.
4. **Shedpure M.** and Pati A. K. (1994). Synchronization of infradian rhythm in eight physiological function with the circannual rhythm of reproduction in female *Clarias batrachus*.*Biological rhythm research*. **25**, 451- 463.
5. **Shedpure M.** and Pati A. K. (1995). Circannual variation in the effect of melatonin and pinealectomy on erythropoiesis and intermediary metabolism in a catfish. *J. Parasit. Appl. Anim. Biol.* **4**, 55-72.
6. **Shedpure M.** and Pati A. K. (1995). Internal phase relationship between the high frequency rhythm in blood, serum and tissue variables and circannual rhythm of reproduction in male catfish, *Clarias batrachus*. *Proc. Indian Nat. Sci. Acad.* **61**, 79-88.
7. **Shedpure M.** and Pati A. K. (1995). Reproductive phase dependent annual variation in the effects of melatonin and pinealectomy, with or without iopanoic acid/cyproterone acetate, in the regulation of serum cholesterol in *Clarias batrachus*. *Biological Rhythm Research*.**27**, 58-71.
8. \***Shedpure M.** and Pati A. K. (1995). The pineal gland: Structural and functional diversity: *Indian J. Exp. Biol.***33**, 625-640.
9. **Shedpure M.** and Pati A. K. (1996). Do thyroid and testis modulate the effects of pineal and melatonin on hemopoietic variables in *Clarias batrachus*. *J. Biosci.* **21**, 797-808.
10. **Shedpure M.** (1998). Effect of pineal and melatonin on total protein content in serum, liver and muscle tissues of *Clarias batrachus*: modulatory role of thyroid and testis. *Biological Rhythm Research*. **30**, 297-312.
11. \*Pati A. K. and **Shedpure M.** (1999). Temporal relationship between circannual reproductive cycle and infradian rhythms in physiologic functions in lower vertebrates. *In Comparative Endocrinology and Reproduction*. (K. P. Joy, C. Haldar, A. Krishna, eds.) Narosa Publishing House, New Delhi, pp. 433-461.
12. **Shedpure M.** (2000). The pineal gland and Biological rhythm. *In Chronophysiology* (M.Shedpure, ed), Pt. R.S.U., Raipur, pp.182-200.
13. Yadu Y. and **Shedpure M.** (2002). Pinealectomy does not modulate the characteristics of 24-h variation in air-gulping activity of *Clarias batrachus*. *Biological Rhythm Research*. **33**, 141-150.
14. Tikariha R. and **Shedpure M.** (2002). Effect of starvation on the characteristics of 24-h rhythm in surfacing activity of an Indian freshwater catfish, *Clarias batrachus*. *Biological Rhythm Research*. **33**, 121-128.

15. Yadu Y. and **Shedpure M.** (2002). Effect of pinealectomy on re-entrainment of air gulping activity in Indian walking catfish, *Clarias batrachus*. *Biological Rhythm Research*. **33**, 63-473.
16. Sahu S. and **Shedpure M.** (2006). Air-breathing rhythm in *Clarias batrachus* (Linn.):Modulatory role of eyes, pineal and exogenous melatonin. *Indian Journal of Experimental Biology*. **44**, 55-62.
17. Tikariha R. and **Shedpure M.** (2006). Effect of phase daily and exogenous melatonin administration on surfacing activity in an Indian walking catfish, *Clarias batrachus*. *Journal of Parasitology and Applied Animal Biology*,**15(1&2)**, 1-10.
18. Sahu S. and **Shedpure M.** (2006). Effects of pinealectomy and/or enucleation on air-gulping activity rhythm in *Clarias batrachus* (Linn.). *Proceedings, The Pineal Gland, Nat. Symp. in current trends in pineal research and 4<sup>th</sup> IPSPG meeting* 253-268.
19. Tikariha R., Neha Jain and **Shedpure M.** (2006). Effects of exogenous melatonin on surfacing activity rhythm in *Clarias batrachus* (Linn.). exposed under constant light (LL) *Proceedings, The Pineal Gland, Nat. Symp. in current trends in pineal research and 4<sup>th</sup> IPSPG meeting* 239-252.
20. Tikariha R. and **Shedpure M.** (2008). Surfacing activity rhythm in *Clarias batrachus*: effect of different phases of annual reproductive cycle. *Bio. Rhy. Res.***40(3)**, 223-234.
21. Maheshwari R., Jogi S. and **Shedpure M.** (2012). Identification of fishes of Mahanadi River, Dhantari district, Chhattisgarh. A preliminary study of 14 fish species. *Int. Res. J. Lab to land.***4 (13)**,4-7.
22. **Shedpure M.**, Jain N. and Maheshwari R. (2012). Effect of magnetic field exposure under different photoperiod on hepatosomatic index (HSI) and histology of liver in an Indian catfish, *Clarias batrachus*. *National Journal of Life Sciences.***9(1)**, 77-82.
23. Jain N. and **Shedpure M.** (2013). Effect of reproductive status, magnetic field exposure and photoperiod on temporal organization in air-gulping activity in *Clarias batrachus*. *Biological Rhythm Research*. **44(1)**, 63-72.
24. Agniwanshi, S., **Shedpure, M.** and Jain, N. (2014). Effect of sodium fluoride on body weight gain and gonadosomatic index in freshwater catfishes. *Jr. of Industrial Control*. **30(2)**, 339-343.
25. Tikariha, R., **Shedpure, M.**, Jain, N., Karanjgaonkar, P. and Ratre, M. (2015). Rhythmic characteristic of air-breathing activity in a catfish: Role of exogenous melatonin. *Int. J. Pharmacol. Bio. Sci.* **9(3)**, 27-37.
26. Karanjgaonkar, P., **Shedpure, M.**, Ratre, M., Tikariha, R. and Jain, N. (2015). Relation between sleep-wake cycle and body mass index: a Preliminary study. *Indian J. L. Sci.***5(1)**, 102-105.
27. Jain, N., Tikariha, R., **Shedpure, M.**, Karanjgaonkar, P., Ratre, M. and Agniwanshi, S. (2015). Review article magnetic field effect on biological system. *Indian J. L. Sci.* **5(1)**: 135-151.
28. **Shedpure, M.**, Karanjgaonkar, P and Ratre, M. (2016). Effect of light at night on melatonin rhythm in human volunteers. *J. Environ. Res. Develop.* **10(4)**: 693-699.
29. Ratre, M., **Shedpure, M.**, and Karanjgaonkar, P. (2017). Effect of melatonin containing plant food on locomotor activity rhythm in a freshwater catfish, *Clarias batrachus*. *Adv. Pharmacol. Toxicol.* **18(2)**: 61-70.

30. Karanjaonkar, P., **Shedpure, M.** and Ratre, M. (2017). Relationship of chronotype to sleep quality and sleep habits in college students. *Int. J. Pharmacol. Bio. Sci.* 11(3): 63-76.
31. Karanjaonkar, P., **Shedpure, M.** and Ratre, M. (2018). Effect of bedtime on salivary melatonin rhythm in human female volunteers. *Biological Rhythm Research* (Under publication)

\*Review article

**(ii) Conference/Symposium papers:**

1. **Shedpure M.** and Pati A.K. (1994): Temporal strategies in an annually breeding catfish. *Clarias batrachus*. *Proc. Nat. Symp. Chronobiology*, Lucknow, p.41.
2. **Shedpure M.** (1995): Regulation of serum cholesterol in *Clarias batrachus*: Role of melatonin and pinealectomy with or without thyroid/androgen inhibitors. *Proc. Nat. Symp. Neu. Endo. Physiol.*, Gwalior.
3. **Shedpure M.** (1995): Circannual variation in the responsiveness of carbohydrate variables to melatonin pinealectomy with or without iopanoic acid in *Clarias batrachus*. *Proc. Nat. Symp. Chronobiology*, Pune, pp.31
4. **Shedpure M.** (1996): Convenient factor in a regulation of seasonal reproduction in lower vertebrates. *Proc. Nat. Symp. Chronobiology*, New Delhi.
5. **Shedpure M.** (1998): Circadian stage dependent modulatory role of thyroid and androgen inhibitors on erythropoiesis in *Clarias batrachus*. *Proc. Nat. Sci. Day* February 28, Pt. Ravishankar Shukla University, Raipur.
6. **Shedpure M.** (1998): Effect of the pineal and melatonin on total protein contents of serum, liver and muscle tissue of *Clarias batrachus*: possible involvement of thyroid and gonad. *Proc. Nat. Sci. Day*, February 28, Pt. Ravishankar Shukla University, Raipur.
7. **Shedpure M.** (1998): Effect of early morning or late afternoon melatonin with or without iopanoic acid on various physiological variables in *Clarias batrachus*. *Proc. Nat. Symp. On Trends in Research on Hormones, Reproduction and Animal Productivity*, New Delhi, p 119-120.
8. **\*Shedpure M.** (1999): Pineal in intermediary metabolism of an Indian Walking Catfish. *Proc. Nat. Symp. Recent Advances in Pineal Research*, Raipur, pp 33-35.
9. Yadu Y. and **Shedpure M.** (2000): Effect of pinealectomy on air-gulping behaviour of *Clarias batrachus*. *Proc. Nat. Symp. On Chronobiology*, Gulbarga.
10. Tikariha R. and **Shedpure M.** (2000): Multifrequency rhythm in air gulping behaviour of an Indian teleost, *Clarias batrachus*. *Proc. Nat. Symp. On Chronobiology*, Gulbarga.
11. Yadu Y. and **Shedpure M.** (2000): Role of pineal and LD cycle in regulating the multifrequency rhythm in air-breathing behaviour of *Clarias batrachus*. *Proc. Nat. Symp. on Aquatic Resources: Its condition and productivity*, Rajnandgaon, p. 19.
12. Tikariha R. and **Shedpure M.** (2000): Effect of pinealectomy in air gulping behaviour of *Clarias batrachus* exposed under two different photoperiod. *Proc. Nat. symp. on Aquatic Resources: its condition and productivity*, Rajnandgaon, p. 16.
13. **Shedpure M.** (2000): Effect of pinealectomy and intensity of light on air-gulping behaviour of *Clarias batrachus*. *Proc. Nat. Symp. on Chronobiology*, Gulbarg
14. Yadu Y. and **Shedpure M.** (2001): Re-entrainment of air-gulping activity in Indian walking catfish, *Clarias batrachus*. *Proc. Nat. Symp. on Chronophysiology*, Ayodhya.

15. Tikariha R. and **Shedpure M.** (2001): Effect of starvation on the surfacing activity of an Indian walking catfish, *Clarias batrachus*. *Proc. Nat. Symp. on Chronophysiology*, Ayodhya.
16. **Shedpure M.** (2001): Concept of third eye. *Proc. Nat. Symp. on Shastra-Samagam*, Raipur.
17. \***Shedpure M.** (2002): Effect of constant darkness (DD) on air-gulping activity rhythm of Intact and pinealectomized *Clarias batrachus*. *Proc. Nat. Coll. on Catfish Physiology*, Varanasi.
18. Yadu Y. and **Shedpure M.** (2002): Effect of pinealectomy on air-gulping activity rhythm in *Clarias batrachus* maintained under long and short photoperiod. *Proc. Nat. Coll. on Catfish Physiology*, Varanasi.
19. Tikariha R. and **Shedpure M.** (2002): Effect of melatonin on the surfacing activity rhythm in an Indian freshwater catfish, *Clarias batrachus*. *Proc. Nat. Coll. on Catfish physiology*, Varanasi.
20. Sahu S. and **Shedpure M.** (2002): Air gulping activity rhythm in *Clarias batrachus*: modulatory effect of pinealectomy and or enucleation. *Proc. Nat. Coll. on Catfish physiology*, Varanasi.
21. Tikariha R. and **Shedpure M.** (2003): Effect of melatonin administration on air gulping activity rhythm in *Clarias batrachus* exposed under LL or DD. *National symposium on current trends in comparative endocrinology*, Nagpur.
22. Sahu S. and **Shedpure M.** (2003): Air gulping rhythm in *Clarias batrachus*: modulatory role of eyes, pineal and exogenous melatonin *National symposium on current trends in comparative endocrinology*: Nagpur.
23. **Shedpure M.** (2004): Pineal and Air breathing rhythm in fish. *Symp. on Adva. in Fish Physiology*, Varanasi.
24. Tikariha R. and **Shedpure M.** (2004): Effect of phase delay and exogenous melatonin administration on surfacing activity in *Clarias batrachus*. *XVI National symposium on Chronobiology*, Tamil Nadu.
25. Sahu S. and **Shedpure M.** (2006): Effects of pinealectomy and/or enucleation on air-gulping activity rhythm in *Clarias batrachus* (Linn.). *Proceedings, The Pineal Gland, Nat. Symp. in current trends in pineal research and 4<sup>th</sup> IPSPG meeting*.
26. Tikariha R. Neha Jain and **Shedpure M.** (2006): Effects of exogenous melatonin on surfacing activity rhythm in *Clarias batrachus* (Linn.). exposed under constant light (LL) *Proceedings, The Pineal Gland, Nat. Symp. in current trends in pineal research and 4<sup>th</sup> IPSPG meeting*
27. Mahapatra M.K., Mishra J., Sahoo S. and **Shedpure M.** (2006): Fluorosis mitigation needs an integrated approach. *Proceedings, The Pineal Gland, Nat. Symp. in current trends in pineal research and 4<sup>th</sup> IPSPG meeting*.
28. Mahapatra M.K., **Shedpure M.** and Mishra A (2006): Fluoride diversity in Natural & Fragile Community, *Nat. Symp. on Biodiversity conservation for a sustainable society*.
29. \***Shedpure M.**, Tikariha R., Sahu S., Jain N. and Mahapatra M. (2007): Role of pineal in modulating air breathing rhythm in fish, *Proc. Nat. Symp on Comparative Endocrinology & Reproductive physiology: Insights and Challenges*, IL-2, Santiniketan.
30. Shedpure M., Shedpure M., Tikariha R., Sahu S., Jain N. and Mahapatra M. (2007): Effect of magnetic field exposure on intermediary metabolism and gonadal development in a freshwater catfish. *Proc. Nat. Symp. On Comparative endocrinology & Reproductive physiology: Insights and Challenges*, PP-9 Santiniketan.



31. \***Shedpure M.**, Yadu Y., Tikariha R., Sahu S. and Jain N. (2008): Role of photoperiod, pineal and eyes in the regulation of temporal organization of air breathing in freshwater catfish. Proc. 4<sup>th</sup> Asia Oceania Conference on photobiology, Varanasi.
32. Sahu S. and **Shedpure M.** (2008): Effect of enucleation followed by exogenous melatonin treatment on air breathing activity rhythm in *Clarias batrachus*. Proc. 4<sup>th</sup> Asia Oceania Conference on photobiology, Varanasi.
33. Jain N. and **Shedpure M.**(2008): Effect of magnetic field exposure under various photoperiods on body weight gain, GSI, hemopoietic variables and pineal histology in an Indian freshwater catfish, *Clarias batrachus*. Proc. 4<sup>th</sup> Asia Oceania Conference on photobiology, Varanasi.
34. Jain N., **Shedpure M.**, Tikariha R. and Sahu S. (2008): Effect of photoperiod and magnetic field exposure on body weight gain, GSI, Physiology variables and pineal histology in an Indian freshwater catfish, *Clarias batrachus*. Proc. XX Nat. Symp. on Chronobiol., Raipur.
35. Sahu S., **Shedpure M.**, Jain N. and Tikariha, R. (2008): Effects of constant light/Dark, enucleation & exogenous melatonin on air breathing activity rhythm in *Clarias batrachus*. Proc. XX Nat. Symp. on Chronobiol., Raipur.
36. \***Shedpure M.**, Tikariha R., Jain, N., Sharma, P. and Panday, V. (2012). Regulatory role of pineal and melatonin in modulating air-breathing activity rhythm in cat fish Proc. Nat. Conf. on Importance of Medicinal Plants in Toxicology and Endocrinology, Bhilai.
37. Jain, N., **Shedpure M.**, Sharma, P. and Panday, V. (2012). Effect of magnetic field exposure and photoperiod on air-gulpin activity rhythm in *Clarias batrachus* during different phases of its annual reproductive cycle. Proc. Nat. Conf. on Importance of Medicinal Plants in Toxicology and Endocrinology, Bhilai.
38. \* **Shedpure M.**, Jain, N., Sharma, P and Panday, V. (2012). Physiological responses of *Clarias batrachus* to magnetic field exposure and photoperiod. Proc. Nat. Sym. on Zoological Sciences: Recent challenges and applications in medical research, Bilaspur.
39. Maheshwari, R., Jogi, S., **Shedpure M.** and Agarwal, R.K. (2012). Ichthyofaunal diversity of perennial freshwater body: River Mahanadi, Chhattisgarh, India. Proc. Nat. Sym. on Zoological Sciences: Recent challenges and applications in medical research, Bilaspur.
40. \***Shedpure M.**, Tikariha R., Jain, N., Sharma, P. and Panday, V. (2012). Physiological response of catfish to fluoride content in water: modulatory role of melatonin. Proc. Internat. Symp. on Comparative Endocrinology and Stress Physiology, Trivandram.
41. Agniwanshi, S., Agrawal, R. K., Maheshwari, R., Das, K. and **Shedpure, M.** (2013). Effect of LL and DD on Vertebral Column in an Indian Freshwater Catfish, *Clarias batrachus*. International Conference on Comparative Endocrinology and Physiology, Nagpur, Maharashtra.
42. \***Shedpure, M.**, Tikariha, R., Yadu, Y., Jain, N. and Agniwanshi, S. (2013). Rhythmic Characteristics of Air-breathing Activity in a Catfish: Role of Exogenous Melatonin. International Conference on Comparative Endocrinology and Physiology, Nagpur, Maharashtra.
43. Tikariha, R., **Shedpure, M.**, Jain, N., Karanjaonkar, P. and Ratre, M. (2014). Effect of exogenous melatonin administration on surfacing activity rhythm in *Clarias batrachus*

- exposed under short and long photoperiod, International Colloquium on Endocrinology and Physiology, Raipur (C.G.).
44. Jain, N., Tikariha, R., **Shedpure, M.**, Sahu, S., Karanjaonkar, P., Ratre, M. and Agniwanshi, S. (2014). Effect of magnetic field exposure and photoperiod on some physiological variable in an Indian catfish, *Clarias batrachus*. International Colloquium on Endocrinology and Physiology, Raipur (C.G.).
  45. Sahu, S., **Shedpure, M.**, Tikariha, R., Jain, N., Karanjaonkar, P., Ratre, M. and Agniwanshi, S. (2014). Air-breathing activity rhythm in *Clarias batrachus*(Linn.): Modulatory role of constant darkness, enucleation and exogenous melatonin. International Colloquium on Endocrinology and Physiology, Raipur (C.G.).
  46. \***Shedpure, M.**, Tikariha, R., Jain, N., Karanjaonkar, P. and Ratre, M. (2015). Clinical significance of melatonin. National Conference on Recent Advances in Medicinal Plant Research and its applications in Human Health, Bhilai, (C. G.).
  47. \***Shedpure, M.**, Tikariha, R., Jain, N., Karanjaonkar, P. and Ratre, M. (2015). Involvement of pineal and melatonin in low and high frequency rhythms in fish. XXV National Symposium on Chronobiology, *Time in Biology & Medicine, Pt. RSU Raipur* (C. G.).
  48. Karanjaonkar, P., **Shedpure, M.**, Ratre, M., Tikariha, R. and Jain, N., (2015). Relation between sleep-wake cycle and body mass index: a preliminary study. XXV National Symposium on Chronobiology, *Time in Biology & Medicine, Pt. RSU, Raipur* (C. G.).
  49. \***Shedpure, M.**, Karanjaonkar, P., Ratre, M. and Agniwanshi, S. (2015). Sleep wake pattern and melatonin rhythm in human volunteers. National Symposium on comparative endocrinology and reproductive biology. Santiniketan, Kolkata (W. B.).
  50. Ratre, M., **Shedpure, M.**, Karanjaonkar, P. and Agniwanshi, S. (2015). Impact of melatonin rich feed on locomotor activity rhythm of catfish, *Clarias batrachus*(Linn.). Santiniketan, Kolkata (W. B.).
  51. \***Shedpure, M.**, Karanjaonkar, P. and Ratre, M., and Tikariha, R. (2015). Sleep wake cycle and melatonin rhythm in human volunteers. National conference on modern life science perspective and prospects. Bhakhara (C. G.).
  52. Ratre, M., **Shedpure, M.**, Karanjaonkar, P. and Agniwanshi, S. (2015). Effect of melatonin rich feed on locomotor activity rhythm in catfish, *Clarias batrachus*. National conference on model life science perspective and prospects. Bhakhara (C. G.).
  53. Ratre, M., **Shedpure, M.** and Karanjaonkar, P. (2016). Effect of melatonin rich diet on locomotor activity rhythm, GSI and body weight gain in *Clarias batrachus*. Prospects in Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences Second Chhattisgarh Congress, Govt. Nagarjuna P.G (Auto.) College of Science, Raipur, C.G.
  54. \*Karanjaonkar, P., **Shedpure, M.** and Ratre, M. (2016). Temporal Organization of sleep pattern and melatonin Rhythm in human volunteers. Prospects in Life Sciences:

Paradigm shift in Teaching and Research in Zoological Sciences Second Chhattisgarh Congress, Govt. Nagarjuna P.G (Auto.) College of Science, Raipur, C.G.

55. **\*Shedpure, M.**, Mamta Ratre and Preeti Karanjgaonkar (2016). E-Dissections: An effective teaching tool. National workshop on alternatives of dissections, February, 2016. Bhilai Mahila Mahavidyalaya, Bhilai
56. **\*Shedpure, M.**, Mamta Ratre and Preeti Karanjgaonkar (2016). Zoology without dissections. National workshop on alternatives of dissections, January, 2016. Govt. College, Vaishali Nagar, Durg.
57. Ratre, M., **Shedpure, M.** and Karanjgaonkar, P. (2017). Effect of melatonin containing diet on body weight gain, GSI and oocyte development in a catfish, *Clarias batrachus*. Prospects of innovation in life sciences and socio-Economic challenges Zoological Society of Chhattishgarh., C. M. Dubey Post-graduate college, Bilaspur (CG).
58. **\*Shedpure, M.**, Preeti Karanjgaonkar and Mamta Ratre (2018). Impact of sleep-wake pattern on sleep quality and salivary melatonin rhythm in human female volunteers. International Conference on recent trends in bioscience, 28-30, October, 2018 Guru Ghasidas University, Bilaspur
59. Mamta Ratre , **Shedpure, M.** and Preeti Karanjgaonkar and (2018).Effect of melatonin containing plant food on melatonin rhythm in *Clarias batrachus*. International Conference on recent trends in bioscience, 28-30, October, 2018 Guru Ghasidas University, Bilaspur
60. **\*Shedpure, M.**, Preeti Karanjgaonkar and Mamta Ratre (2019). Assessment of sleep quality and salivary melatonin rhythm in relation to sleep habits in human female volunteers. International conference on endocrinology and reproduction, 7-9, January, 2019. RTM University, Nagpur

\*Invited talks

#### **Guest lecture delivered:**

**Shedpure, M.** (2008). Introduction to biostatistics, Govt. Science College, Raipur

**Shedpure, M.** (2009). Biological rhythms, Govt. Science College, Durg

**Shedpure, M.** (2010). Biological clock, Bhilai Mahila Mahavidyalaya, Bhilai

**Shedpure, M.** (2013). Significance of rhythmic characteristics, Govt. College, Bhakhara

**Shedpure, M.** (2008). Introduction to Endocrinology, Govt. Science College, Raipur

- Shedpure, M.** (2014). Hormones and rhythms, Govt. college, Kurud
- Shedpure, M.** (2015). Rhythms in life, Science centre, Raipur
- Shedpure, M.** (2018). Application of biostatistics, Bhilai Mahila Mahavidyalaya, Bhilai
- Shedpure, M.** (2016). Melatonin and rhythm, Govt. college, Dharsiva
- Shedpure, M.** (2016). Hardy-Weinberg law, Govt. College, Vaishali Nagar, Durg
- Shedpure, M.** (2017). Diversity of amphibians, Department of forest, Raipur
- Shedpure, M.** (2018). Natural and biological rhythms, Bhilai Mahila Mahavidyalaya, Bhilai