

CURRICULUM VITAE

**DR. RICHA TIKARIHA
DEPARTMENT OF ZOOLOGY
GOVT. D.B. GIRLS P.G. (AUTONOMOUS) COLLEGE
KALIBADI CHOWK, RAIPUR**

CURRICULUM VITAE

Name: **Richa Tikariha**

Designation: Assistant Professor and Head, Zoology

Qualification: M.Sc., Ph.D.

Date of Birth: 20 July, 1977

Postal address: Department of Zoology
Govt. D.B. Girls P.G. College
Raipur (C.G.)

email: richamehta3@gmail.com

Teaching experience: 14 years

Research experience: 10 years

Areas of interest: Pineal biology, Chronobiology, Ethology, Biostatistics

Fellowship: Research Fellowship (Pt. R. S. S. University, Raipur)

Award won: Best Paper Presentation Award 2001, Gulbarga University,
Karnataka, India

Young Scientist Award, 2004 by Chhattisgarh Council of
Science & Technology, Raipur, C.G.

Academic career:

Research papers published: 07
National/International Conference/Symposia paper: 29
General article: 04

Life member, Indian Pineal Study group

Life member, Indian society for Chronobiology

Life member, Indian Red Cross Society.

Organizing Secretary: 1. National Conference on Recent Advances in Physics, 28-29
October, 2015

2. National Science Day, Govt. P. G. College, Kurud, 5, 8
March, 2015

Treasurer: 1. International Colloquium on Endocrinology & Physiology,
29-30 September, 2014

Invited talk/ Guest lecture delivered: 06

1. Ecosystem, Biome and Biodiversity. at Department of Geography, Govt. P. G. College, Kurud on 05.12.2014
2. Biogeography at Department of Geography, Govt. P. G. College, Kurud on 30.10.2015
3. Ecosystem: Form and function at Department of Geography, Govt. P. G. College, Kurud on 06.11.2015
4. Physiology of nerve impulse and synaptic organization at Govt. D. B. Girls' P. G. College, Raipur on 20.01.16
5. Hands on practice and feedback-students. National workshop on Augmentation of Quality in Higher Education, Govt. P. G. College, Kurud, 21. 01. 2016
6. Oceanic Bio-zones at Department of Geography, Govt. P. G. College, Kurud On 05.04.2016
7. National workshop on "Alternatives of dissection and animal experimentation Zoology" at Bhilai Mahila Mahavidyalaya, Bhilai on 31.01.2017
8. Biological clock at Regional Science Centre, Raipur on 20.01.2018

List of publication:

(i) Research papers:

1. **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.
2. **Tikariha R.** and Shedpure M. (2006): Effect of phase delay 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.

3. **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 4th IPSP meeting* 239-252
4. **Tikariha R.** and Shedpure M. (2009): Surfacing activity rhythm in *Clarias batrachus*: Effect of different phases of annual reproductive cycle. *Bio. Rhy. Res.*, 40(3): 223- 234.
5. **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. Biol. Sci.* Vol. 9 (3): 27-37.
6. Karanjgaonkar, P. , Shedpure, M., Ratre, M., **Tikariha, R.**, and Jain, N. (2015). Relationship between sleep-wake cycle and body mass index: a preliminary study. *Indian J. L. Sci.* 5(1): 102-105, 2015.

(ii) **Review Article:**

1. Jain, N. , Shedpure, M., **Tikariha R.**, Karanjgaonkar, P., Ratre, M. and Agniwanshi, S. (2015). Review article magnetic field effect on biological system. *Indian J. L. Sci.* 135-151, 2015.

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

1. **Tikariha R.** and Shedpure M. (2000): Multifrequency rhythm in air gulping behaviour of an Indian teleost, *Clarias batrachus*. *Proc. Nat. Symp. On Chronobiology*, Gulbarga.
2. **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.
3. **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.
4. **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.

5. **Tikariha R.** and Shedpure M. (2003): Effect of melatonin administration on air gulping activity rhythm in *Clarias batrachus* exposed under LL or DD. *Nat. symp. on current trends in comparative endocrinology*, Nagpur.
6. **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.
7. **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 4th IPSG meeting*
8. 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.*
9. 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.*
10. 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. 4th Asia Oceania Conference on photobiology*, Varanasi.
11. 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.
12. 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.
13. 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.

14. 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
15. Shedpure M., **Tikariha R.**, Yadu Y., N. Jain and Agniwanshi S.. (2013). Rhythmic characteristics of air-breathing activity in a catfish: Role of exogenous melatonin. *Proc. Internat. Conf. on Comparative Endocrinology & Physiology*.
16. **Tikariha R.**, Shedpure M., Jain N., Karanjgaonkar P., Ratre M. and Agniwanshi S. (2014). Effect of exogenous melatonin administration on surfacing activity rhythm in *Clarias batrachus* exposed under short and long photoperiod. *Proc. Internat. Colloq. On Endocrinology & Physiology*. Raipur.
17. Jain N., Shedpure M., **Tikariha R.**, Sahu S., Karanjgaonkar P., Ratre M. and Agniwanshi S. (2014). Effects of magnetic field exposure and photoperiod on some physiological variables in an Indian catfish, *Clarias batrachus*. *Proc. Internat. Colloq. On Endocrinology & Physiology*. Raipur.
18. Sahu S., Shedpure M., **Tikariha R.**, Jain N., Karanjgaonkar P., Ratre M. and Agniwanshi S. (2014). Air-breathing activity rhythm in *Clarias batrachus*: Modulatory role of constant darkness, enucleation and exogenous melatonin. *Proc. Internat. Colloq. On Endocrinology & Physiology*. Raipur.
19. **Tikariha R.** (2014). *Proc. National seminar on Recent Advances in Biological Sciences*. Wadrafnagar, Chhattisgarh.
20. Shedpure M., **Tikariha R.**, Jain N., Karanjgaonkar P. and Ratre M. (2015). Involvement of pineal and melatonin in low and high frequency rhythm in fish. *Proc. XXV National symposium on Chronobiology*. Raipur, Chhattisgarh.
21. Karanjgaonkar P., Shedpure M., Ratre M., **Tikariha R.** and Jain N. (2015). Relation between sleep-wake cycle and body mass index: a preliminary study. *Proc. XXV National symposium on Chronobiology*. Raipur, Chhattisgarh.
22. Shedpure M., Karanjgaonkar P., Ratre M., **Tikariha R.**, Agniwanshi S. and Jain N. (2015). Clinical significance of melatonin. *Proc. Nat. Conf. on recent advances in medicinal plant research & its application in human health*. Bhilai, Chhattisgarh.
23. Jain N., Shedpure M., **Tikariha R.**, Karanjgaonkar P., and Ratre M. (2015). Effect of magnetic field exposure on body weight gain in *Clarias batrachus* and *Clarias gariepinus*. *Proc. Nat. Conf. on recent advances in medicinal plant research & its application in human health*. Bhilai, Chhattisgarh.
24. **Tikariha R.** (2015): Economic importance of Pangasiid catfish production in India. *Proc. Nat. Conf. on modern life science- perspective and prospects*. Bhakhara, Chhattisgarh.

25. Karanjaonkar P., Shedpure M., Ratre M. and **Tikariha R.** (2015). Sleep-wake cycle and melatonin rhythm in human volunteers. *Proc. Nat. Conf. on modern life science perspective and prospects*. Bhakhara, Chhattisgarh.
26. **Tikariha R.** (2015). Bioluminescence in living organisms: An adaptation for survival. *Proc. Nat. Conf. on Recent Advances in Physics*. Kurud, Chhattisgarh.
27. **Tikariha R.** (2015): Relationship between biology and physics- emerging trends in science. *Proc. Nat. Seminar on emerging trends in Physics*. Kurud, Chhattisgarh.
28. **Tikariha R.** (2016): The effects of environmental toxicants on fish behavior. *Proc. Nat. Seminar on Advances in Environmental Sciences & Technology*. Rajnandgaon, Chhattisgarh.
29. **Tikariha R.** (2018): Environmental issues relating to an endangered species, *Clarias batrachus*. *Proc. Nat. Seminar on Environmental Conservation and Sustainable Development in Chhattisgarh*, Abhanpur, Raipur, Chhattisgarh.

(iii) **General article:**

1. Tikariha R. and Shedpure M. (2006): The pineal Gland: As a psychic center. *Proc National seminar on Perspective in Positive Psychology*, Raipur, Chhattisgarh.
2. Tikariha R. (2014): Role of sericulture in rural development of Chhattisgarh. *Proc National seminar on Retrospect & Prospect of rural development in India with special reference to Chhattisgarh*. Abhanpur, Chhattisgarh.
3. Tikariha R. (2015): What do zoology graduates do? *Proc National seminar on graduate employability*. Kurud, Chhattisgarh.
4. Tikariha R. (2016): Habitat loss: Biggest threat to biodiversity.

