

CURRICULUM VITÆ

Dr.AMIT KUMAR TRIVEDI

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Department of Zoology
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Personal Details:

Date of Birth: 09 December 1978 Sex: Male

Father's Name: Om Kumar Trivedi

Nationality: India

Permanent Address: 4/589 Sector H, Jankipuram, Lucknow

Educational Qualifications: Ph.D.

Doctor of Philosophy (Ph. D.): YEAR 2005 Lucknow University

Thesis Entitled, "Seasonal Responses of house sparrow (*Passer domesticus*) Linnaeus at 27 N

Master of Science(M.Sc.): YEAR 2001, Lucknow University

Bachelor of Science (B.Sc.): YEAR 1999, Lucknow University

Intermediate (+2): Year 1995 U.P. Board

High School: Year 1993 U.P. Board

Research Interest:

- Chronobiology
- Endocrinology

Details of Previous Employments:

- **Research Associate (CSIR) 2008-2009**
- **Post Doctoral Fellow: 2009-2011**
- **Scientist: 2011-2014**

Overseas Experience:

- DST-DAAD Fellow: 2001 (Max Planck Institute, Andechs, Munich, Germany)
- Post Doctoral Fellow: 2009-2011 (University of Kentucky, Lexington, KY, USA)

Awards & Distinctions:

- Faculty 3rd SERB School in Avian Biology. Department of Zoology, North Eastern Hill University, Shilong, September 27 - 11 October, 2015.
- Faculty in SERB School in Chronobiology. Department of Zoology, Mangalore University, Mangalor, December 22, 2014 - 04 January, 2015.
- Faculty in SERB School in Chronobiology. Department of Zoology, North-Eastern Hill University, Shilong, June 20-03 July, 2012.
- Faculty SERC School in Chronobiology-III Clocks, Rhythms and behavior, Department of Zoology, Ch. Charan Singh University, Meerut, Oct 01-14, 2011
- Best Lab work Presentation in SERC School in Chronobiology II: Clocks, Rhythms and Behavior, Department of Zoology, University of Lucknow, Lucknow, Oct 12-25, 2008
- Late Smt. Bhagawati Devi Memorial Prize For best presentation in XVII National symposium on Chronobiology, BHU, Varanasi, 2005.
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Professional Memberships:

- **Joint Secretary cum Treasurer: Association of Avian Biologists in India**
- **Executive Committee member: Indian Society for Chronobiology**
- **Life Member Academy of Environment**

Research Papers Reviewed for Journals:

- **Current Science**

Seminar/Symposia/Workshop Organized:

- **Education and Outreach Activity on Human Health and Biological Timing (2017)**
- **Workshop on Mechanism of Adaptation in the Temporal Environment (2017)**
- **National Symposium on Avian Biology (2018)**

Research Projects:

National Projects:

- a. **UGC (2016):** *Effect of temporal restriction of food availability on metabolism and reproduction in song bird*
- b. **SERB-ECR Project (2017):** *Effect of urbanization on daily clock and seasonal reproduction of song bird tree sparrow (*Passer montanus*)*
- c. **DBT-research Grant (2018):** *Seasonal Patterns and Relationships among parasitic infection, in Free-Living Tree Sparrows over an Annual Reproductive Cycle*

Research & Teaching Experience

Research: Years 17 years

Teaching: UG Years 03 years

PG+Ph.D. Years 04 years

Total Number of Publications

- i. Research Papers: 19
- ii. Review Papers: 03
- iii. Books/Book Chapters: 03
- iv. Conference Proceedings: 02

Citation Details (as on.....)

| | Google Scholar | Scopus |
|---------|----------------|--------|
| h index | 10 | 10 |

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|-----------------|-----|-------|
| Total Citations | 235 | |
|-----------------|-----|-------|

Cumulative Impact factor : 45.68

Link for Google Scholar: <https://scholar.google.co.in/citations?user=Qksof-4AAAAJ&hl=en&oi=ao>

Link for ResearchGate: https://www.researchgate.net/profile/Amit_Trivedi3

Research Guidance:

- i) Ph.D. 01 (submitted)
02 (Registered)
- ii) M.Phil 01 Awarded
0 Registered

List of Ph.D./M.Phil Awarded

- a) Ph.D.
 - i. Nil
- b) M.Phil
 - i. Study of Biological Rhythms in Patients suffering from Upper Intestinal Cancer

Expert Talk/Chaired Technical Sessions:

- XXVI National Symposium on Chronobiology. Department of Studies in Zoology, Manasagangothri, Mysuru, University of Mysore, Mysuru. 2016.
- International symposium on Integrative physiology and Comparative

- endocrinology (ISIPCE-2016). Department of Zoology, Banaras Hindu University. 2016.
- XXV National Symposium on Chronobiology: Time in biology and medicine. Pt. Ravishankar Shukla University, Raipur. 2015.
 - Chairperson Scientific session IndoUS Workshop & International Symposium on Biological Timing and Health Issues in the 21st Centaury. Department of Zoology, Delhi University. 2017
 - Chairperson Scientific session XXV National Symposium on Chronobiology: Time in biology and medicine. Pt. Ravishankar Shukla University,Raipur.2015
 - National Workshop on Recent Advances in Nematode Taxonomy (RANT-2014). Department of Zoology, CCS University Meerut, 2014.
 - Faculty 3rd SERB School in Avian Biology. Department of Zoology, North Eastern Hill University, Shilong, September 27 - 11 October,2015
 - Faculty in SERB School in Chronobiology. Department of Zoology, Mangalore University, Mangalor, December 22, 2014 - 04 January,2015.
 - Faculty in SERB School in Chronobiology. Department of Zoology, North-Eastern Hill Univeristy, Shilong, June 20-03 July,2012.
 - Faculty SERC School in Chronobiology-III Clocks, Rhythms and behavior, Department of Zoology, Ch. Charan Singh University, Meerut, Oct 01-14,2011.

Full Details of Published Papers:

A. Book/Book Chapters

- i. Seasonality in House sparrow (*Passer domesticus*). Lambert Academic Publishing.
- ii. **AK Trivedi**, D. Singh, A. S. Dixit, and V Kumar: Pineal gland, melatonin and timekeeping in non- mammalian vertebrates: Avian perspective. In: Biological Timekeeping: Clocks, Rhythms and Behaviour (Kumar V., ed.) 2017. Springer,India
- iii. ZothanmawiiRenthlei and **AK Trivedi**: Regulation of seasonal reproduction in higher vertebrates. (C. Haldar, S Gupta, S Goswami., eds.). Publishing Cell Banaras Hindu University, Varanasi, India.
- iv. S Rani, S Singh, A K Trivedi and V Kumar (2001): Photoperiodism in birds: An Ecological Perspective. Prof. S B Chauhan Comm. Vol. Zool. Soc. India.65-76

B. Review Papers

- i. L Jongte and **AK Trivedi** (2018). Biological timing and human health: Clock prospective. Sci. Tech Journal.
- ii. Z Renthlei, B K Borah and **AK Trivedi** (2017). Effect of urbanization on daily behavior and seasonal functions in vertebrates. Biological Rhythm Research. Taylor &Francis
- iii. **A K Trivedi** and V Kumar (2014) Melatonin: A circadian and seasonal signal in vertebrates. Indian Journal of Experimental Biology. 52:425-437.

C. Research Papers

- i. Z Renthlei, T Gurumayum, BK Borah and **AK Trivedi**. (In Press.). Daily Expression of Clock Genes in Central and Peripheral Tissues of tree sparrow (*Passer montanus*). Chronobiology International.
- ii. B K Borah, L Hauzel, Z Renthlei, and **AK Trivedi** (2018). Photic and non photic regulation of growth and development of *Rhacophorus maximus* tadpole. Biological Rhythm Research. Taylor & Francis
- iii. Z Renthlei, B K Borah and **AK Trivedi** (2017). Effect of urbanization on daily behavior and seasonal functions in vertebrates. Biological Rhythm Research. Taylor & Francis
- iv. **A K Trivedi**, S Malik, S Rani and V Kumar (2016) Pinealectomy abolishes circadian behavior and interferes with circadian clock gene oscillations in brain and liver but not retina in a migratory songbird. Physiology & Behavior. 156:156-163.
- v. D Singh, **A K Trivedi**, Rani S, S Panda and V Kumar (2015) Circadian time in central and peripheral tissues in a migratory song bird: dependence on annual life history states. The FASEB Journal. 29(10):4248-4255.
- vi. G Majumdar, **A K Trivedi**, N J Gupta and V Kumar (2015) Circadian synchronization determines critical day length for seasonal responses. Physiology & Behavior. 147:282-290.
- vii. **A K Trivedi**, S Malik, S Rani and V Kumar (2015) Adaptation of oxidative phosphorylation to photoperiod-induced seasonal metabolic states in migratory songbirds. Comparative Biochemistry and physiology Part A. 184:34-40.
- viii. S Malik, J Singh, **A K Trivedi**, S Singh, S Rani and V Kumar (2015): Nocturnal melatonin level decodes daily light environment and reflect seasonal states in night migratory black-headed bunting (*Emberizamelanocephala*). Photochemical and photobiological sciences. 14(5):963-971.
- ix. **AK Trivedi**, J Kumar, S Rani and V Kumar (2014) Annual Life History-Dependent Gene Expression in the Hypothalamus and Liver of a Migratory Songbird: Insights into the Molecular Regulation of Seasonal Metabolism. Journal of Biological Rhythms. 29(5):332-345.
- x. **AK Trivedi**, S Rani and V Kumar (2014): Circadian adaptation to seasons: Effects on activity behavior in subtropical House Sparrow, *Passer domesticus*. Biological Rhythm Research. 45(3); 465-475. Taylor & Francis.
- xi. I Mishra, **AK Trivedi** and V Kumar (2014): Color morphs dependent entrainment of circadian activity rhythms in zebra finch, *Taeniopygiaguttata*. Indian Journal of Experimental Biology. 52: 516-520.
- xii. G. Wang, C E Harpole, **AK Trivedi** and V M Cassone (2012): Rhythms and Song: Differential regulation of bird song, Bird call and Locomotor behavior by the circadian clock and Pineal Melatonin in the Zebra finch, *Taeniopygiaguttata*. J. Biological Rhythms. 27(2):145-155.
- xiii. **AK TRivedi**, I Mishra, S Rani and V Kumar (2011): Circadian and Seasonal regulation of Migration in Redheaded Bunting *Emberizabruniceps*. First International conference on Indian Ornithology (ICIO), SACON, Coimbatore, India. Pp 115 –116.
- xiv. S Malik, J Singh, **AK Trivedi**, S Singh, S Rani and V Kumar (2011):

- Clock and migration: A perspective from laboratory studies on migratory buntings. First International conference on Indian Ornithology (ICIO), SACON, Coimbatore, India. Pp 103 –105.
- xv. V Kumar, S Rani, S Malik, **AK Trivedi**, I Shwabl, B Helm and E Gwinner (2007): Daytime light intensity affects seasonal timing via changes in the nocturnal melatonin levels. *Naturwissenschaften*. 94(8):693-696. Publisher: Springer Berlin / Heidelberg.
- xvi. **AK Trivedi**, S Rani and V Kumar (2006): Control of annual reproductive cycle in the subtropical house sparrow (*Passer domesticus*): Evidence for conservation of photoperiodic control mechanism in birds. *Frontiers in Zoology*. 3:12. Publisher: BioMedCentral.
- xvii. **AK Trivedi**, S Rani and V Kumar (2006): Natural daylight restricted to twilights delay the timing of testicular regression but does not affect the timing of the daily activity rhythm of the house sparrow (*Passer domesticus*). *Journal of circadian Rhythms*, 4:5. Publisher: BioMed
- xviii. S Rani, S Malik, **AK Trivedi**, S Singh and V Kumar (2006): A circadian clock regulates migratory restlessness in the blackheaded bunting (*Emberizamelanocephala*). *Current Science*.91(8):1093- 1096. Publisher: Indian Academy of Science.
- xix. **AK Trivedi**, S Rani and V Kumar (2005): Differential responses of the photoperiodic clock in two passerine birds possessing strongly self-sustained circadian system. *Chronobiology International*. 22(5):801-806. Publisher: Taylor & Francis Ltd.
- xx. **AK Trivedi**, S Rani and V Kumar (2004): Melatonin blocks inhibitory effects of prolactin on photoperiodic induction of body fattening, testicular growth and feather regeneration in the migratory male redheaded bunting (*Emberizabruniceps*). *Reproductive Biology and Endocrinology*. 26:2(1)79.

PAPERS PRESENTED AT DIFFERENT SYMPOSIUMS

- i. Melatonin blocks inhibitory effects of LPD induced suppression of metabolic genes in the liver of mice. International conference on Molecular and Clinical aspects of Melatonin. Chulabhorn Graduate Institute Bangkok, Thailand 30-31 August 2018.
- ii. Photic and nonphotic regulation of growth, development and metamorphosis in giant tree frog (*Rhacophorus maximus*) tadpoles. National Conference on recent trends in Zoological research in North-East India. Department of Zoology. North Eastern Hill University, Shillong, 19-2- April 2018.
- iii. Photic and nonphotic regulation of growth and development of Teraie tree frog (*Polypedates teraiensis*). IndoUS Workshop & International Symposium on Biological Timing and Health Issues in the 21st Centaury. Department of Zoology, Delhi University. 2017
- iv. Insights into molecular regulation of seasonal physiology in migratory sing birds. XXVI National Symposium on Chronobiology. Department of Studies in Zoology, Manasagangotri, Mysuru, University of Mysore, Mysuru. June 2nd and 3rd, 2016.

- v. Pinealectomy abolishes circadian behavior and interferes with circadian clock gene oscillations in brain and liver but not retina in a migratory songbird. International symposium on Integrative physiology and Comparative endocrinology (ISIPCE-2016). Department of Zoology, Banaras Hindu University. Feb 12 - 14, 2016.
- vi. Temperature alters expression of genes in migratory birds. XXV National Symposium on Chronobiology: Time in biology and medicine. Pt. Ravishankar Shukla University, Raipur. March 27- 29, 2015
- vii. Adaptation of oxidative phosphorylation to photoperiod-induced seasonal metabolic states in migratory songbirds. National symposium on Behavioural ecology: molecules to organisms. Department of Zoology, Banaras Hindu University. Nov 7-9, 2014.
- viii. Modulation of behavior, metabolic and clock gene mRNA rhythms by pineal circadian oscillators. International Congress on Chronobiology 2012, Department of Zoology, University of Delhi, Delhi, October 03-07.
- ix. Circadian and seasonal regulation of migration in Red-headed bunting, *Emberizabruniceps*. International Conference on Indian Ornithology 2011, Salim Ali Centre for Ornithology and Natural History Coimbatore, Nov 19-23.
- x. Pinealectomy modulates clock genes expression in time dependent manner. Society for Research on Biological Rhythms (SRBR), Destin Florida, U.S.A. May 22-26, 2010
- xi. Photoperiodic regulation of seasonal response of house sparrow. Rhythms in South Eastern Region Vanderbilt University, Nashville, Tennessee, USA. May 16, 2009.
- xii. Differential responses of the photoperiodic clock in two passerine birds possessing strongly self-sustained circadian system. XVII National Symposium on Chronobiology, BHU, Varanasi, Oct. 1-3, 2005.
- xiii. Seasonality in house sparrow. International Conference on Birds and Environment, Haridwar, Nov. 21-24, 2004.
- xiv. Melatonin blocks inhibitory effects of prolactin on photoperiodic induction of body fattening, testicular growth and feather regeneration in the migratory male redheaded bunting (*Emberizabruniceps*). National Symposium on Chronobiology & Annual Meeting of Indian Society of Chronobiology, Faizabad-Ayodhya, 2001.