



Anita Jagota Ph.D.
(JNU, Delhi)

Professor

Department of Animal
Biology

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Head, Department of
Animal Biology
1.6.2018-31.5.2021

Research Interests

Neurobiology, Neuroinflammation, Neurodegeneration, Aging, Molecular Chronobiology

1. Understanding Cellular and Molecular Mechanisms and Identification of Biomarkers involved in Neural regulation of circadian rhythms with Aging and Neurodegeneration (Parkinson's and Alzheimer's Disease, Sleep deprivation and metabolic diseases)
2. Therapeutic interventions in Clock Dysfunction in Aging and Neurodegeneration

Awards/Achievements/Positions held

3. Member, IUC-YS, AYUSH ethical committee in Yoga Education and Yoga Policy'2022
4. Expert, DST INSPIRE, Bio-Sciences and Biotechnology (since Jan'2022)
5. Head Department of Animal Biology 1.6.2018-31.5.2021 (3Years)
6. EC Member, Indian Academy of Neurosciences (IAN), 2020 onwards
7. Fellow Indian Academy of Neurosciences (F-IAN), 2019 onwards
8. Fellow, Telangana Academy of Sciences (F-TAS), 2018 onwards
9. Chairperson, Institutional Animal Ethics Committee' 2018 onwards
10. Member, DST Expert Committee WOS-A, Aug'2018, Hyderabad
11. Member, Editorial Board Member, Biogerontology, Jan-2016 onwards
12. Member, Expert Committee on Physiology of Extreme Environment and Behavioural Sciences (PEE&B)S of Life Science research Board(LSRB), DRDO (Delhi Nov'2016) onwards
13. Member of Task Force on Neuroscience, DBT, India. March' 2012-2014
14. Member, IBSC, CCMB, Hyderabad from 2009-2016
15. Member, IBSC, NIPER, Hyderabad, 2021 onwards
16. EC Member, Society for Neurochemistry India, SNCI, 2002-2006
17. Treasurer, Society for Neurochemistry India (SNCI) Dec' 2006-2011
18. Secretary, Society for Neurochemistry India (SNCI) Dec' 2011-2014
19. APSET-Panel Member'2012
20. Jyotsnamoyee Raghunath Battacharya Award, 2001 for best publication in Basic Neuroscience.
21. Professor K.S. Swamy Memorial Prize, Young Scientist Award, in the XIth Annual National Conference on Comparative Animal Physiology,1989.

Recent Distinctions Achieved for our research by my research Scholars

1. **Best Poster Award** to my Ph.D. Student **Mohammad Sultan** for our paper "**Effects of aging and amyloid beta 1-42 induced oxidative stress, neurotoxicity and circadian clock dysfunction in a rat model of Alzheimer's disease.** at "35th Annual Meeting of Society of Neurochemistry, India (SNCI) 2021 and the International Conference on "Neurodegeneration and Cognition: Recent Advances in Neurological Diseases" Hyderabad, 2 to 4 Dec'2021
2. Dr. G M Taori Memorial Award for **Best oral presentation Award** to my Ph.D. Student Zeeshan Akhtar Khan for our paper "**Effects of Chronic Total Sleep Deprivation on Clock Gene Expression and Inflammatory Markers in Adult Male Wistar Rats**" at 35th Annual Meeting of Society of Neurochemistry, India (SNCI) 2021 and the International Conference on "Neurodegeneration and Cognition: Recent Advances in Neurological Diseases" Hyderabad, 2 to 4 Dec'2021
3. **Suttee Nag Prize for Best Poster** to my Ph.D. Student **Sushree Abhidhatri Sharma** for our paper "Alteration of daily rhythms in various inflammatory markers in Rotenone induced Parkinson's disease (RIPD) rat model" in IAN International E-Conference and 38th Annual Meeting of Indian academy of Neurosciences **IAN: Basic and Clinical Neurosciences: Bridging the Gaps** at University of Hyderabad 4-7 Oct'2020.
4. **Best Poster Award** to my Ph.D. Student **Minu Rani** for our paper at 32 Annual meeting of **SNCI** and International Conference on Neurochemistry and Neuropharmacology: Bench to Bed side March' **2019**
5. Travel Award to my Ph.D. Student **K. Kowshik** for our paper "Effect of *Withania somnifera* leaf extract on the age induced alterations in daily clock gene expression rhythms in the SCN of male Wistar rats" at **IAN'2017** at Bhuvneshwar
6. **Best Poster Award** to my Ph.D. Student **T. Neelsh** for our paper at 30th annual meeting of **SNCI** and National Conference on Recent Trends in Neurological and Psychiatric Research held at CCMB, Hyderabad, 9 to 11 **Dec'2016**
7. **Best oral presentation Award** to my Ph.D. Student **K. Kowshik** for our paper at 30th annual meeting of **SNCI** and National Conference on Recent Trends in Neurological and Psychiatric Research held at CCMB, Hyderabad, 9 to 11 **Dec'2016**
8. **ISCE Award** for oral presentation to my **Ph.D. Student B. Lakshmi** for our paper at FCEN'2014 held at Hyderabad, 25-28th **Nov'2014**

9. **Prof. Murthy memorial Award for oral presentation to my student Mr. Ch. Vinod for our paper** at 28th annual meeting of SNCI and National Conference on “Neurodegenerative disorders and metabolic Diseases” 10 -12th **Sept’ 2014** held at CEFT, Sri Ramachandra University, Chennai.
10. **Prof. Murthy memorial Award for our Best poster to my Ph.D. student Mattam Ushodaya** at 27th annual meeting of SNCI & International Conference on “Recent Advances in Molecular Mechanisms of Neurological Disorders” 21-23 **Feb’ 2013** held at AIIMS, New Delhi.
11. **Prof. T. Desiraju memorial Prize for our Best poster to my Ph.D. Student VDK Reddy** at 26th annual meeting of SNCI and International Symposium on Rejuvenation Neurochemistry Bedside to Bench and back to Bedside” 9-11 **Jan’2012** held at CIIMS, Nagpur.
12. **Prof. T. Desiraju memorial Prize for our Best poster to my Ph.D. Student B. Laxmi** at 25th annual meeting of SNCI and International symposium on metabolic signaling in Brain in Health and Diseases” 7-9th **Jan’2011** held at UH, Hyderabad

Recent Selected Publications

1. Anita Jagota Sleep and Circadian Clock: Novel Players in Health Impacts and Aging Sleep and Clocks in Aging and Longevity https://doi.org/10.1007/978-3-031-22468-3_1 (in Press)
2. V.D. Reddy, Minurani Dalai, Sultan Khan and *Anita Jagota** (2022) **Day time-restricted feeding shows differential synchronizing effects on age-related changes of serotonin metabolism in SCN and the pineal gland in male Wistar rats** *Biogerontology* 18: 333–345 <https://doi.org/10.1007/s10522-022-09994-7> **Springer**(IF: 4.27)
3. *Anita Jagota**, Zeeshan A. Khan ** and M. Sultan Khan** (2021) “Diet and circadian rhythms: implications for Aging and longevity” in Nutrition, Food and diet in health and longevity Editors Suresh I.S. Rattan and Gurcharan Kaur. Chapter 19 *Vol. 14. (pp. 393–409)*. **Springer Nature** ** *Equal contribution*.
4. *Anita Jagota** and Sushree Abhidharti Sharma (2021) “Ketogenic diet, circadian rhythm and aging” in Nutrition, Food and diet in health and longevity Editors Suresh I.S. Rattan and Gurcharan Kaur. Chapter 16 *Vol. 14. (pp. 315–330)* **Springer Nature**
5. K Kukkemane, *Anita Jagota** (2020) Therapeutic effects of hydro-alcoholic leaf extract of *Withania somnifera* on age-induced changes in daily rhythms of Sirt1, Nrf2 and Rev-erba in the SCN of male Wistar rats. *Biogerontology*, 21:593– (IF 4.27, 5 year IF=5.25)
6. Neelesh Babu Thummadi and *Anita Jagota** (2019) Aging renders desynchronization between clock and immune genes in male wistar rat kidney: chronobiotic role of curcumin *Biogerontology* 20, 515-532 (IF 4.27, 5 year IF=5.25)
7. Kukkemane K and *Anita Jagota** (2019) Therapeutic effects of curcumin on the age induced alterations in daily rhythms of clock genes and *Sirt1* expression in the SCN of male Wistar rats. *Biogerontology* 20, 405-419 (IF 4.27, 5 year IF=5.25)
8. *Anita Jagota** and Ushodaya Mattam (2017) Daily chronomics of proteomic profile in aging and rotenone induced Parkinson’s disease male Wistar rat model : Protective role of melatonin. *Biogerontology* (*Special issue on Future of Aging*) 18:615-630 **Springer** (IF 4.27, 5 year IF=5.25)
9. Ch. Vinod and *Anita Jagota** (2017) Daily *Socs1* rhythms alter with aging differentially in peripheral clocks in male Wistar rats: Therapeutic effects of melatonin *Biogerontology* 18: 333 **Springer** (IF 4.27, 5 year IF=5.25)
10. Ch. Vinod and *Anita Jagota** (2016), Daily NO rhythms in peripheral clocks on aging: Protective effects of exogenous melatonin" *Biogerontology* 17:873–882 **Springer** (IF 4.27, 5 year IF=5.25)
11. Ch. Vinod and *Anita Jagota** (2016), Daily NO rhythms in peripheral clocks on aging: Protective effects of exogenous melatonin" *Biogerontology* 17:873–882 **Springer** (IF 4.27, 5 year IF=5.25)
12. M.Y. Reddy and *Anita Jagota** (2015) Melatonin has differential effects on age-induced stoichiometric changes in daily chronomics of serotonin metabolism in SCN of male Wistar rats" *Biogerontology*16: 285-302 **Springer** (IF 4.27, 5 year IF=5.25)
13. Ushodaya M and *Anita Jagota** (2015) Daily rhythms of serotonin metabolism and the expression of clock genes in suprachiasmatic nucleus of rotenone-induced Parkinson’s disease male Wistar rat model and effect of melatonin administration *Biogerontology* 16 : 109-123 **Springer** (IF 4.27, 5 year IF=5.25)
14. Ushodaya Mattam and *Anita Jagota** (2014) Differential role of melatonin in restoration of age induced alterations in daily rhythms of expression of various clock genes in suprachiasmatic nucleus of male Wistar rat *Biogerontology* 15: 245-256 **Springer** (IF 4.27, 5 year IF=5.25)
15. Reddy VDK and *Anita Jagota** (2014) Effect of Restricted feeding on nocturnality and daily leptin rhythms in OVLT in aged rats *Biogerontology* 15 : 257-268 **Springer** (IF 4.27, 5 year IF=5.25)
16. Pavan Kumar Manikonda and *Anita Jagota** (2012) Melatonin administration differentially affects on age induced alterations in daily rhythms of lipid peroxidation and antioxidant enzymes in male rat liver *Biogerontology* 13: 511-524 **Springer** (IF 4.27, 5 year IF=5.25)
17. Anumodh Pazhoor Mammen and *Anita Jagota** (2011) Immunocytochemical evidence for different patterns in daily rhythms of VIP and AVP peptides in the suprachiasmatic nucleus of diurnal *Funambulus palmarum*. *Brain Research* 1373: 39-47 **Elsevier** (IF: 3.25)
18. *Anita Jagota** and Kalyani D (2010) Effect of melatonin on age induced changes in daily Serotonin rhythms in suprachiasmatic nucleus of male wistar rat. *Biogerontology* 11: 299-308 **Springer**(IF 4.27, 5 year IF=5.25)
19. *Anita Jagota** and Kalyani D (2008) Daily Serotonin rhythms in rat brain during postnatal development and aging. *Biogerontology* 9: 229-234 **Springer** (IF 4.27, 5 year IF=5.25)

20. *Anita Jagota** and MY Reddy (2007) The effect of curcumin on ethanol induced changes in Suprachiasmatic nucleus (SCN) and Pineal. *Cellular and Molecular Neurobiology* 27: 997-1006 *Springer* (IF 5.05)

***Corresponding Author**

Landmark Publication

Anita Jagota, Horacio O. De la Iglesia and William J. Schwartz. (2000) Morning and Evening circadian oscillations in the suprachiasmatic nucleus *in vitro*. *Nature neuroscience*, 3:372-376 (IF: 26.88)

Covered in News and Views (in Same Volume)

Books

1. *Anita Jagota* and P.D. Gupta "**Living Clocks**" (2006) V. Brijratan Publications.
2. P.D. Gupta and *Anita Jagota* (1996) Book entitled "**Beyond the human eye**". Publications & Information Directorate (CSIR) under *Golden Jubilee Series* under the project Dissemination of Biotechnology Information sponsored by Department of Biotechnology, Government of India.
3. *Anita Jagota* Ed **Approved Springer Book Proposal** : "Sleep and Clocks in Ageing and Longevity" in "Healthy Ageing and Longevity" book series *Springer Nature* (Under Submission Process)

Data base Submissions :3

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