**Interdepartmental and Inter-institutional collaborative activity – AK Pati, School of Life Sciences, PRSU, Raipur**

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| --- | --- | --- | --- | --- |
| S. No. | Type of Collaboration | Collaboration with | Sponsors [Amount] | Output |
|  | **Doctoral research**  Title: Ecological behaviour of rice hoppers, greenleaf hoppers, *Nephotettix virescens* (Distant), whitebacked planthopper, *Sogatella furcifera* (Horvath) and brown planthopper, *Nilaparvata lugens* (Stal.) in Chhattisgarh area. | IGKVV, Raipur | - | PhD degree awarded to SA Dixit in 1994 |
|  | **Doctoral research**  Title: Insect pests scenario of Soybean in Chhattisgarh region of Madhya Pradesh. | IGKVV, Raipur | - | PhD degree awarded to Seema Tiwari in 1999 |
|  | **Doctoral research**  Title: Physiological rhythms and performance among sports persons. | SoS in Physical Education | - | PhD degree awarded to Omji Gupta in 2008 |
|  | **Doctoral research**  Title: Study of circadian rhythm in heart rate, physical activity, activity intensity and energy expenditure of sports persons. | SoS in Physical Education | - | PhD degree awarded to Hrishikesh Patel in 2011 |
|  | **R&D Project**  Title: Investigation of relationship between circadian rhythm type, psycho-physiological state and performance – Completed | SoS in Physical Education | UGC - 2004-2009[10.0 lac] | Manpower trained: Two  Publication: O Gupta, H Patel, AK Pati, R Venugopal (2011). Sports chronobiology: circadian rhythms in psychological, physiological and physical performances. The Asian Man-An International Journal 5 (1), 40-44. |
|  | **R&D Project**  Title: Circadian profile of nitrate reductase activity in *Jatropha curcas* – Completed | Govt. Model Science College, Raipur | CCOST -2008-2010  [5.0 lac] | Manpower trained: One  One publication currently under revision |
|  | **R&D Project**  Title: National Center for Natural Resources (NCNR) – On-going | University Institute of Pharmacy; SoS in Regional Studies; SoS in Biotechnology; School of Life Sciences; SoS in Chemistry; PRSU, Raipur | DST – From 2012 [905 lac] | Manpower under training: 26 |
|  | **Conference/ Symposium Organized**  Title:XVII International Symposium on Biosepelology | International Society for Biospeleology | - | November 25-30, 2004; Attended by 200 delegates, including about 75 foreign delegates |
|  | **Conference/ Symposium Organized**  Title:Multinational Graduate Course on Basic Chronobiology with Reference to Chronomedicine | International Society for Chronobiology | - | November 2-7, 2008; Attended by 20 Indian graduates with the participation of five foreign resource persons and five Indian resource persons. |
|  | **Joint Publications**  Authors: A Singh, M Kumar Tripathi, R Singh, A Kumar Pati [2015] | GGU, Bilaspur | DST | Circadian rhythmicity in leukocytes immune responses in the freshwater snake, Natrix piscator. Biological Rhythm Research 46 (2), 181-194. |
|  | **Joint Publications**  Authors: MK Tripathi, R Singh, AK Pati [2015] | GGU, Bilaspur | DST | Daily and Seasonal Rhythms in Immune Responses of Splenocytes in the Freshwater Snake, Natrix piscator. PloS one 10 (2), e0116588. |
|  | **Joint Publications**  Authors: B Pande, A Parganiha, PK Patra, AK Pati [2014] | JN Medical College, Raipur | UGC, DRS-SAP | Short-duration judgment in young Indian subjects under 30 h constant wakefulness. Indian J Exp Biol 52 (5), 559-568. |
|  | **Joint Publications**  Authors: O Gupta, H Patel, AK Pati, R Venugopal [2011] | SoS in Physical Education, PRSU, Raipur | UGC | Sports chronobiology: circadian rhythms in psychological, physiological and physical performances. The Asian Man-An International Journal 5 (1), 40-44. |
|  | **Joint Publications**  Authors: Chaturvedi CM, Singh V P, Singh P, Basu P, Singaravel M, Shukla RK, Dhawan A, Pati AK, Gangwar RK and Singh SP [2011] | BHU, Varanasi | CSIR | 2.45 GHz (Cw) microwave irradiation alters circadian organization, spatial memory, DNA structure in the brain cells and blood cell counts of male mice, Mus musculus. Progress In Electromagnetics Research 29, 23-42. |