



GOVERNMENT G.N.A. P.G. COLLEGE, BHATAPARA (C.G.)
(Affiliated to Pt. Ravishankar Shukla University Raipur)

Faculty Details

Title	First Name	Last Name	Photograph
Dr.	Sunita	Patel	
Designation		Guest Lecturer (Zoology)	
Address		Shukla Colony, Bhatapara	
Phone Number	Office		
	Residence		
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Educational Qualification			
Degree	Institution		Year
Ph.D.	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh		2025
B.Ed	Shri Rawatpura Sarkar College of Education, Dhaneli, Raipur		2020
M.Sc.	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh		2018
B.Sc.	Panchayat College, Bargarh, Odisha.		2016
12 th	Newton College of +2 Science, Sambalpur, Odisha.		2013
10 th	Panchayat High School, Kandapala, Bargarh, Odisha.		2011
Career Profile			
<ul style="list-style-type: none">❖ National Eligibility Test (NET) 2020 – Fellowship- Junior Research Fellow (JRF) in Life Science 2021, Council of Scientific & Industrial Research (CSIR-UGC-NFOBC), MHRD, New Delhi, India.❖ Senior Research Fellow (SRF) in Life Science, 2023, Council of Scientific & Industrial Research (CSIR-UGC-NFOBC), MHRD, New Delhi, India.❖ GATE - Life Science (XL) 2020❖ Chhattisgarh State Eligibility Test (CG SET) 2020			
Administrative Assignments			
Criteria -7 Institutional Values and best practices			
Areas of Interest / Specialization			
Neuro-Endocrinology			

Subjects Taught
1. Microbiology, Parasitology, Immunology and Applied zoology 2. Diversity of chordates and comparative anatomy 3. Diversity of Invertebrates
Research Guidance
Publications Profile
1. Rai, S., Patel, S., Bharti, V. K., & Haldar, C. (2024). Impact of Oxidative Stress on Male Reproduction: Amelioration by Melatonin and Some Selected Food-Grade Antioxidants. <i>Journal of Endocrinology and Reproduction</i> , 28(1), 01–11. https://doi.org/10.18311/jer/2024/35612 2. Patel, S., & Rai, S. (2023). Glucocorticoid-Induced Dose-Dependent Reproductive Impairments in Male Albino Rat. <i>Journal of Endocrinology and Reproduction</i> , 27(2), 99–108. https://doi.org/10.18311/jer/2023/34312 3. Rai S, Patel S and Gahir S. (2022). Impact of SARS-CoV-2 on Sleep / Wake Cycle and Melatonin. <i>Cell & Cellular Life Sciences Journal (CCLSJ)</i> . 7(2). DOI: 10.23880/cclsj16000174 4. Rai S, Banjare P, Naik R, Purohit A, Patel S, Xaxa K, Roy G (2022): Melatonin Alleviates Constant Light Induced Oxidative Stress Damages of Kidney and Spleen of Female Rat <i>International Journal of Zoological Investigation</i> . 8(2): 576-586 5. Patel S, Choudhary M, Chandra RK, Bhardwaj AK, Tripathi MK. Sex steroids exert a suppressive effect on innate and cell mediated immune responses in fresh water teleost, Channa punctatus. <i>Developmental & Comparative Immunology</i> . 2019 Nov 1; 100:103415
Chapters in Books:
1. Rai, S, Pal, S, Purohit, A, Patel, S, Xaxa, K, Roy, G, Ahmad, YH, Kumar, R (2024): Potential Phytotherapeutic Intervention for the Treatment of Polycystic Ovarian Syndrome, In <i>Herbal Medicine Applications for Polycystic Ovarian Syndrome</i> , pp. 71- 90, CRC Press 2. Kumar, S, Mahakud, N, Purohit, A, Patel, S, Xaxa, K, Roy, G, Hajam, YA, Rai, S (2024): Therapeutic and Pharmacological Perspectives of Some Herbal Resources for the Treatment of Polycystic Ovarian Syndrome: A Fast-Spreading Endocrine Disorder, In <i>Herbal Medicine Applications for Polycystic Ovarian Syndrome</i> , pp. 131-164. CRC Press
Conference Organization/ Presentations (in the last five years)
❖ 35 th National Conference organized by Zoological Society of India, Guru Ghasidas Vishwavidyalaya, Bilaspur on the topic “An interplay of melatonin and its receptor (Mt1, Mt2) with IR and Glut 4 blocks the dexamethasone-induced pancreatic damage in male Wistar rats” held from 3rd to 5th June 2024. ❖ International Conference on Molecular Medicine, Reproduction, and Endocrinology 2023 & 40th Annual meeting of the Society for Reproduction Biology and Comparative Endocrinology, (SRBCE 2023), Vadodara, Gujrat on the topic ‘Melatonin: A Protective Molecule Against Dexamethasone-Induced Pancreatic Damages in Wistar Rats’ held on 14th to 16th September, 2023. ❖ 34th National Conference organized by Zoological Society of India, Kashmir University on the topic “Melatonin prevents dexamethasone induced testicular and epididymal damages and effect on sperm quality of rats” held from 3rd to 5th June 2023.

Research Projects (Major Grants/Research Collaboration)**Awards and Distinctions**

- ❖ **Young Scientist Award** - 35th National Conference organized by Zoological Society of India, Guru Ghasidas Vishwavidyalaya, Bilaspur on the topic "An interplay of melatonin and its receptor (Mt1, Mt2) with IR and Glut 4 blocks the dexamethasone-induced pancreatic damage in male Wistar rats" held from 3rd to 5th June 2024
- ❖ **Best Oral Presentation Award**- 34th National Conference organized by Zoological Society of India, Kashmir University on the topic "Melatonin prevents dexamethasone induced testicular and epididymal damages and effect on sperm quality of rats"

Association With Professional Bodies**Other Activities****Participation in Orientation Courses/ Refresher Courses/ Workshops/ FDPS etc.****Seminars/ Conferences Attended:**

- ❖ 35 th National Conference organized by Zoological Society of India, Guru Ghasidas Vishwavidyalaya, Bilaspur on the topic "An interplay of melatonin and its receptor (Mt1, Mt2) with IR and Glut 4 blocks the dexamethasone-induced pancreatic damage in male Wistar rats" held from 3rd to 5th June 2024.
- ❖ International Conference on Molecular Medicine, Reproduction, and Endocrinology 2023 & 40th Annual meeting of the Society for Reproduction Biology and Comparative Endocrinology, (SRBCE 2023), Vadodara, Gujrat on the topic 'Melatonin: A Protective Molecule Against Dexamethasone-Induced Pancreatic Damages in Wistar Rats' held on 14th to 16th September, 2023.
- ❖ 34th National Conference organized by Zoological Society of India, Kashmir University on the topic "Melatonin prevents dexamethasone induced testicular and epididymal damages and effect on sperm quality of rats" held from 3rd to 5th June 2023.
- ❖ International Conference on Reproductive Biology, Comparative Endocrinology and Development and 39th Annual Meeting of the Society for Reproduction Biology and Comparative Endocrinology on the topic "**EFFECT OF DIFFERENT ACUTE DOSES OF DEXAMETHASONE ON THE TESTES, EPIDIDYMIS AND IMMUNE FUNCTIONS IN MALE WISTAR RATS**" held from 14th to 16th September, 2022

Programmes Organized and Conducted: