

ZAKIR HUSAIN DELHI COLLEGE (University of Delhi) Faculty Details

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Dr.	Sunil		Kumar			
Designation	Assistant	Professor			6.3	
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	Residence	e				
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Web Page	+ +					
Educational Qualif	fication					
Degree		Institution		Year	Year	
Ph.D. Zoology		University of Delhi		2011	2011	
(Comparative Immuno-			•			
endocrinology)				2005		
M.Phil. (Zoology)		University of Delhi		2005		
M.Sc. (Zoology)		University of Delhi		2003		
B.Sc. (Hons.) Zoology		University of Delhi		2001		
UGC-NET-JRF						
Career Profile						
Teaching Experience: 13 Years						
Research Experience: 05 Years						
Administrative Ass	-					
 Convenor UG Admissions (Life Sciences) 2020, 21, 22, 23 Member, Committee of courses for UG and PG: 2017-2023 						
 Member, Committee of courses for OG and PG: 2017-2023 Member, Career Counseling and Placement Cell 2017-2023 						
 Member, Career Coursening and Placement Cen 2017-2023 Superintendent Practical Examinations 2019-2020 						
5. Convenor B.Sc. (Prog.) Life Sciences Society 2019-2020						
6. Member, E-tendering/GeM committee 2018-2019						
7. Teacher-In-Charge 2016-2017						
 Member, Time-table committee 2016-17 Member, NAAC committee: 26.04.2016 – 21.09.2016 						
			.2016 – 21.09.	2016		
Areas of Interest /			0.001			
 Comparative Immuno-Endocrinology Reproductive Physiology 						
-	J~8					
Subjects Taught						

www.zakirhusaindelhicollege.ac.in

- 1. Fundamentals of Biochemistry
- 2. Immunology
- 3. Biochemistry of Metabolic Processes
- 4. Reproductive Biology

Research Guidance

One Ph.D. (Under supervision)

Publications Profile

Research Publications:

- 1. Agashe Sayli, Kumar Sunil, Rai Rishabh (2021). Exploring the Relationship Between Social Ties and Resilience From Evolutionary Framework. Frontiers in Human Dynamics. Vol. 3. (1-7) DOI=10.3389/fhumd.2021.683755.
- 2. Dhiraj Kumar Singh and Sunil Kumar (2021) Post-chemotherapy survival range analysis of lung cancer patients through statistical software 'R'. Journal of Biotechnology and Strategic Health Research. Vol 5. (143-147)
- Balbir Singh Chingtham, Sanayairangchan Kshetrimayum, DeepankarHaldwani, Monik Khumanthem, Gaurav Kaushik, Andaj Raj, Meenakshi Ahuja, Haridarshan Thakur, Irengbam Priyobata Singh, Sanjeev, Kumar, Sunil Kumar (2015). Declining Population of Phabou Nga (*Puntiussophore*), A Staple Dietary Fish in Manipur: Ensuing Concerns. <u>DU Journal of Undergraduate Research and Innovation (90-101)</u>.
- <u>Sunil Kumar</u> and Umesh Rai (2011). Dynorphin regulates phagocytic activity of splenic phagocytes in wall lizards: involvement of κ-opioid receptor-coupled ACcAMP-PKA pathway. J. Exp. Bio. 214, 4217-4222.
- 5. <u>Sunil Kumar</u> and Umesh Rai (2011). Immunomodulatory role of substance P in the wall lizard *Hemidactylus flaviviridis*: An *in vitro* study. <u>Neuropeptides 45: 323–328</u>.
- 6. <u>Sunil Kumar</u> and Umesh Rai (2011). Neuropeptide Y, an orexigenic hormone, regulates phagocytic activity of lizard splenic phagocytes. <u>Peptides 32 (6):1324-1329.</u>
- Sunil Kumar, Soma M. Ghorai, and Umesh Rai (2011). β-Endorphin inhibits phagocytic activity of lizard splenic phagocytes through μ receptor-coupled adenylate cyclase-protein kinase A signaling pathway. <u>Gen. Comp. Endocrinol. 171</u> (3):301-8.
- 8. Roy B, Singh R, <u>Kumar S.</u> and Rai U (2008). Diurnal variation in phagocytic activity of splenic phagocytes in freshwater teleost *Channa punctatus*: melatonin and its signaling mechanism <u>J Endocrinol. 2008; 199(3): 471-80.</u>

Chapters in Books:

- 1. Sunil Kumar and Mamta Tripathy (2023) "Anatomy and histology of female reproductive system". In Human Reproductive Biology and Health, Pearsons Publication.
- Sunil Kumar, Brototi Roy, Umesh Rai (2011). Hormonal Regulation of Testicular Functions in Reptiles. In David O. Norris and H. Lopez(Eds.), "Hormones and <u>Reproduction of Vertebrates</u>" Vol. 3-Reptiles. pp 63-88 Academic Press USA.ISBN NO. 9780123749307
- 3. Umesh Rai and <u>Sunil Kumar</u> (2008). "Pregnancy" chapter published in the E-Book on Reproductive Biology published by National Science Digital Library, CSIR, New Delhi, India (<u>Link: http://nsdl.niscair.res.in/handle/123456789/571</u>). NA.

Conference Organization/ Presentations (in the last five years)

Organizing secretary/ Member, Organizing Committee:				
1. Five days online workshop on "Data manipulationstatistical software				
'R'. 27.07.2020 to 31.07.2020				
2. National workshop on Applications of Biotechnology, Bioinformatics and				
Biostatistics Tools for Science Students" 20.12.2021 to 24.12.2021				
3. Outreach program: A talk on semi-conductor devices and their applications.				
10.02.2022.				
4. One week workshop on 'Understanding the Technique of Histology" for UG				
students. 12.09.2022 to 17.09.2022				
5. One week workshop on "Techniques for Gene Expression Analysis" 22.12.2022 to				
28.12.2022				
6. Health awareness-cum-screening camp among young adults of Delhi and NCR"				
21.02.2023				
Research Projects (Major Grants/Research Collaboration)				
1. DST-Funded SERB-EMR Research Project 2018-21. "Understanding the mechanism				
for onset of reproductive activity in seasonally breeding reptile <i>Hemidactylus</i>				
<i>flaviviridis</i> : an emphasis on the role of the kisspeptin system"				
2. DU-Innovation project 2015-16: ZHC-301 "Development of user-friendly low cost				
portable biosensor for the detection of pesticides"				
3. DU-Innovation project 2013-14: ZH-205 "Effect of heavy metals and trace elements in				
water on human health status in Delhi-NCR region" Awards and Distinctions				
1. "Dr. Shamim Haider Gold Medal" for best oral presentation in the "National				
Symposium on Comparative Endocrinology and Reproductive Physiology: Current				
Advances" held at Department of Zoology, The Institute of Science, Mumbai from				
December 17-19, 2009.				
Association With Professional Bodies				
1. Life member of "Indian Society for Comparative Endocrinology".				
Other Activities				
1. Mentored 10 Students on Gyanodaya V Educational Trip "The Glory of the North				
East" organized by University of Delhi from December 18, 2014 to December 29,				
2014.				