



APEEJAY STYA UNIVERSITY, GURUGRAM, HARYANA

Research Publications of School of Bioscience



Sr. No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
1	Glyphosate: A review on its widespread prevalence and occurrence across various systems.	Mishika Ahuja, Lakhan Kumar, Krishan Kumar, Vyas M Shingatgeri, Saroj Kumar* (Corresponding Author)	School of Biosciences	Environmental Science: Advances, DOI: 10.1039/D4VA00085D.	2024	2754-7000	https://www.rsc.org/journals-books-databases/about-journals/environmental-science-advances/	https://pubs.rsc.org/en/content/article-pdf/2024/VA/D4VA00085D?page=search	Scopus, Web Science
2	Synthesis of Biogenic Nanomaterials, Their Characterization, and Applications.	Simran Kaur, Gunjit Setia, Mudra Sikenis, Saroj Kumar*. (Corresponding author)	School of Biosciences	Environmental Science and Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-45956-6_3 . pp 45–75.	2024	978-3-031-45955-9	https://link.springer.com/book/10.1007/978-3-031-45956-6	https://link.springer.com/chapter/10.1007/978-3-031-45956-6_3	Scopus
3	Nanomaterials Induced Cell Disruption: An Insight into Mechanism.	Anjali Raghav, Simran Kaur, Gunjit Setia, Saroj Kumar*. (Corresponding author)	School of Biosciences	Environmental Science and Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-45956-6_9 . pp 227–249.	2024	978-3-031-45955-9	https://link.springer.com/book/10.1007/978-3-031-45956-6	https://link.springer.com/chapter/10.1007/978-3-031-45956-6_9	Scopus
4	Journey of CAR T-cells: Emphasising the concepts and advancements in breast cancer (Review)	Mohd Adnan Kausar, Sadaf Anwar, Hemat El-sayed El-horany, Farida Habib Khan, Neetu Tyagi, Mohammad Zeeshan Najm, Sadaf Alaa Abdulaziz Eisa, Chandrajeet Dhara, Saumyatika Gantayat	School of Biosciences	International Journal of Oncology	2023	1791-2423	International Journal of Oncology (spandidos-publications.com)	https://pubmed.ncbi.nlm.nih.gov/37830150/	Scopus
5	The role of Aedes aegypti in inducing/aggravating IgE-mediated allergic airway disease: extensive computational studies for identification of allergenic proteins	Mohd A Kausar, Amgad M Rabie, Faizul Azam, Sadaf Anwar, Fahaad Alenazi, Khalid F Alshammari, Subhabrata Kar, Abrar Ali, Shima MH AboElnaga, Azfar Jamal, Gagandeep Singh, Lovnish Thakur, Mohammad Z Najm, Mohd Saeed	School of Biosciences	Journal of Biomolecular Structure and Dynamics	2023	1538-0254	Journal of Biomolecular Structure and Dynamics Taylor & Francis Online (tandfonline.com)	The role of Aedes aegypti in inducing/aggravating IgE-mediated allergic airway disease: extensive computational studies for identification of allergenic proteins: Journal of Biomolecular Structure and Dynamics: Vol 0, No 0 (tandfonline.com)	Web of Science
6	A comprehensive immunoinformatics study to explore and characterize potential vaccine constructs against Ole e 9 allergen of Olea europaea	Mohd Adnan Kausar, Tulika Bhardwaj, Fahaad Alenazi, Khalid F Alshammari, Sadaf Anwar, Abrar Ali, Shima MH AboElnaga, Mohammad Z Najm, Mohd Saeed	School of Biosciences	Journal of Biomolecular Structure and Dynamics	2023	ISSN: 1538-0254	Journal of Biomolecular Structure and Dynamics Taylor & Francis Online (tandfonline.com)	A comprehensive immunoinformatics study to explore and characterize potential vaccine constructs against Ole e 9 allergen of Olea europaea: Journal of Biomolecular Structure and Dynamics: Vol 0, No 0 (tandfonline.com)	Scopus
7	FOXO3 gene hypermethylation and its marked downregulation in breast cancer cases: A study on female patients	Mohammad Aasif Khan, Irfan Ahmad, Abdulaziz A Alolqi, Alaa Abdulaziz Eisa, Mohammad Zeeshan Najm, Maria Habib, Saad Mustafa, Sheersh Massey, Zoya Malik, Kumari Sunita, Jogendra Singh Pawar, Naseem Akhter, NK Shukla, SVS Deo, Syed Akhtar Husain	School of Biosciences	Frontiers in Oncology	2023	2234-943X	Frontiers in Oncology	Frontiers FOXO3 gene hypermethylation and its marked downregulation in breast cancer cases: A study on female patients (frontiersin.org)	Web of Science
8	Automobile Fuel Efficiency Prediction in Soft Computing	Dr. Sudhanshu Mishra, Dr. Mohammad Zeeshan Nazm	School of Biosciences	JOURNAL of the MAHARAJA SAYAJI RAO UNIVERSITY of BARODA	2023	ISSN: 0025-0422	https://miar.ub.edu/issn/0025-0422		UGC Care Group 1 Journal
9	Occupational Hazards and Safety related to Radiation: A Review Study on Awareness of Healthcare Workers	Dr. Sudhanshu Mishra, Dr. Mohammad Zeeshan Nazm	School of Biosciences	MADHYA BHARTI. मध्य भारती	2023	ISSN 0974-0066	https://dhs.gsu.edu.in/index.php/en/about-us/pub-2/madhya-bharti/madhya-bharti-manviki-evam-samai-vigvan-shodh-patrika		UGC Care Group 1 Journal
10	In-vitro antiviral action of Eupatorium perfoliatum against dengue virus infection: Modulation of mTOR signaling and autophagy	Dr. Subhabrata Kar	School of Biosciences	Journal of Ethnopharmacology	2022	ISSN:0378-8741E-ISSN:1872-7573	https://www.sciencedirect.com/journal/journal-of-ethnopharmacology	https://www.sciencedirect.com/science/article/abs/pii/S0378874121008564	Scopus
11	Behavioral-psychological motivations encoded in the vocal repertoire of captive Amur tiger (Panthera tigris altaica) cubs	Kong, X., Liu, D., Kathait, A. et al.	School of Biosciences	BMC Zool 7, 2 (2022).	2022	E-ISSN:2056-3132	https://www.biomedcentral.com/bmczool	https://doi.org/10.1186/s40850-021-00102-9	Scopus

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12	Remediation of petrorefinery wastewater contaminants: A review on physicochemical and bioremediation strategies	Dr. Saroj Kumar	School of Biosciences	Process Safety and Environmental Protection	2022	ISSN:0957-5820E-ISSN:1744-3598	https://www.sciencedirect.com/journal/process-safety-and-environmental-protection	https://www.sciencedirect.com/science/article/abs/pii/S09575820220009X	Scopus
13	miRNAs and the Hippo pathway in cancer: Exploring the therapeutic potential (Review)	Mohammad Zeeshan Najm, Vyas Murti Madhavrao Shingatgeri	School of Biosciences	Oncology Reports	2022	Print ISSN: 1021-335X Online ISSN: 1791-2431	https://www.spandidos-publications.com/10.3892/or.2022.8346	https://www.spandidos-publications.com/10.3892/or.2022.8346	Scopus
14	Subspecies Taxonomy and Inter-Population Divergences of the Critically Endangered Yellow-Breasted Bunting: Evidence from Song Variations	Dr. Atul Kathait	School of Biosciences	Animals	2022	ISSN: 2076-2615	https://www.mdpi.com/journal/animals	https://www.mdpi.com/2076-2615/12/17/2292	Scopus
15	Unveiling the underpinnings of various non-conventional ELISA variants: a review article	Rajesh Ahirwar, Akanksha Bhattacharya & Saroj Kumar	School of Biosciences	Expert Review of Molecular Diagnostics	2022	SSN 1473-7159; e-ISSN 1744-8352	https://www.tandfonline.com/journals/iero20	https://www.tandfonline.com/doi/full/10.1080/14737159.2022.2117615	Scopus
16	MD Simulation Studies for Selective Phytochemicals as Potential Inhibitors against Major Biological Targets of Diabetic Nephropathy	Dr. S. Kar	School of Biosciences	Molecules	2022	ISSN: 1420-3049	https://www.mdpi.com/journal/molecules	https://www.mdpi.com/1420-3049/27/15/4980	Scopus
17	Mechanistic Insight into the Enzymatic Inhibition of β -Amyrin against Mycobacterial Rv1636: In Silico and In Vitro Approaches	Mohammad Zeeshan Najm	School of Biosciences	Biology	2022	ISSN: 2079-7737	https://www.mdpi.com/journal/biology	https://www.mdpi.com/2079-7737/11/8/1214	Scopus
18	Synthesis and Clinical Development of Palbociclib: An overview	Subhabrata Kar	School of Biosciences	Medicinal Chemistry, 17 (2021) 1-27.	2021	ISSN (Print): 1573-4064 ISSN (Online): 1875-6638	https://www.eurekaselect.com/627/journal/medicinal-chemistry	https://www.eurekaselect.com/188738/article	Web of Science
19	Aptamer-based sensing of breast cancer biomarkers: a comprehensive review of analytical figures of merit.	Saraj Kumar	School of Biosciences	Expert Review of Molecular Diagnostics, 2021. doi: 10.1080/14737159.2021.1920397. *Article in press.	2021	ISSN: 1473-7159	https://www.tandfonline.com/toc/iero20/current	https://pubmed.ncbi.nlm.nih.gov/33877005/	Web of Science
20	Biochemical composition, transmission and diagnosis of SARS-CoV-2	Ahirwar R, Gandhi S, Komal K, Dhaniya G, Tripathi PP, Shingatgeri VM, Kumar K, Sharma JG, Kumar S	School of Biosciences	Bioscience Reports	2021	1573-4935	https://portlandpress.com/bioscience	https://portlandpress.com/bioscience/article/41/8/BSR20211238/229295/Biochemical-composition-transmission-and-diagnosis?searchresult=1	Web of Science
21	Aptamer-based sensing of breast cancer biomarkers: a comprehensive review of analytical figures of meri	Ahirwar R, Khan N, Kumar S	School of Biosciences	Expert Review of Molecular Diagnostics	2021	1473-7159	https://www.tandfonline.com/toc/iero20/current	https://www.tandfonline.com/doi/abs/10.1080/14737159.2021.1920397?journalCode=iero20	Web of Science
22	A small vocal repertoire during the breeding season expresses complex behavioral motivations and individual signature in the common coot	Changjian Fu1, Atul Kathait2, Guangyi Lu3, Xiang Li1, Feng Li1* and Xiaoying Xing1*	School of Biosciences	BMC ZOOLOGY	2021	2056-3132	https://bmczool.biomedcentral.com/	https://bmczool.biomedcentral.com/articles/10.1186/s40850-021-00088-4	Web of Science
23	MOLECULAR BASIS AND INTEGRATIVE ANALYSIS OF Rv1463 AS PROBABLE CONSERVED ATP-BINDING PROTEIN BY COMPUTATIONAL APPROACH	Priya BHATIA	School of Biosciences	Journal of Faculty of Pharmacy of Ankara University	2021	ISSN: 1015-3918 e-ISSN: 2564-6524 10.33483/jfpau.866876	https://dergipark.org.tr/en/pub/ifa	https://dergipark.org.tr/tr/download/article-file/1528379	Scopus
24	Drug-Resistant Breast Cancer: Dwelling the Hippo Pathway to Manage the Treatment	Simran Kaur Mohammad Zeeshan Najm	School of Biosciences	Breast Cancer: Targets and Therapy	2021	ISSN: 1179-1314	https://www.dovepress.com/journal_pricing_bands.php?journal_id=69	https://www.dovepress.com/drug-resistant-breast-cancer-dwelling-the-hippo-pathway-to-manage-the-peer-reviewed-fulltext-article-BCTT	Scopus
25	Epigenetic Alteration and its Association With Downregulated FOXP3 Gene in Indian Breast Cancer Patients	Mohammad Zeeshan Najm	School of Biosciences	Frontiers in Genetics	2021	ISSN:1664-8021	https://www.frontiersin.org/journals/genetics	https://www.frontiersin.org/articles/10.3389/fgene.2021.781400/full	Scopus
26	Genetic structure and diversity of Black Francolin in Uttarakhand, Western Himalaya, India	Priyanka Negi, Atul Kathait, Tripti Negi, Pramesh Lakhera	School of Biosciences	Journal of Wildlife and Biodiversity	2020	2588-3526	http://www.wildlife-biodiversity.com/	https://wildlife-biodiversity.com/index.php/jwb/article/view/66	Web of Science
27	THYROID HORMONE REFERENCE RANGES IN PREGNANT WOMEN BASED ON INDIGENOUS POPULATION: A MULTI CENTRIC STUDY FROM IODINE-DEFICIENT ENDEMIC ZONES IN THREE STATE OF INDIA	Atul Kathait, Asha Chandola-Saklani	School of Biosciences	Eur Thyroid J 2019;8(suppl 1):1-127 DOI: 10.1159/000501012	2019	ISSN: 2235-0640 (Print) e-ISSN: 2235-0802 (Online)	https://www.karger.com/Journal/Home/255331	https://www.karger.com/Article/Pdf/501012	Web of Science
28	Iodine Deficiency Disorders And Adverse Pregnancy Outcome In Himalayan Mountain Population	S Mishra, D Topwal, A Joshi, N Yadav, A Kathait, A Farswan, J Semwal, A Chandola-Saklani	School of Biosciences	European Thyroid Journal	2018	ISSN: 2235-0640 (Print) e-ISSN: 2235-0802 (Online)	https://www.karger.com/Journal/Home/255331	https://www.karger.com/Article/Pdf/491542	Web of Science
29	A longitudinal study of maternal thyroid hormones and neurodevelopmental behavioral clinical milestones in offspring	NikkuYadav, AtulKathait, Asha Chandola Saklani	School of Biosciences	European Thyroid Journal	2017	ISSN: 2235-0640 (Print) e-ISSN: 2235-0802 (Online)	https://www.karger.com/Journal/Home/255331	https://www.karger.com/Article/Pdf/477987	Web of Science

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30	Monitoring of adverse pregnancy outcome in rural population from iodine deficient zones: A multi-centric pilot study from Northern India	SnehlataTendi, NikkuYadav, JayantiSemwal, RuchiJuyal, AshaChandola-Saklani	School of Biosciences	European Thyroid Journal	2017	ISSN: 2235-0640 (Print) e-ISSN: 2235-0802 (Online)	https://www.karger.com/Journal/Home/255331	https://www.karger.com/Article/Pdf/477987	Web of Science
31	Sphingomyelin modulates structure of apolipoprotein AI in Alzheimer's disease,	V. Singh, V. Sansanwal, and S. Kar	School of Biosciences	Biophysics Journal	2017	ISSN 1542-0086 (online)	https://www.cell.com/biophysj/home	https://ui.adsabs.harvard.edu/abs/2017BpJ...112Q.389S/abstract	Web of Science



Researches: Highlights and Achievements

Publications:

1. Yadav N, Kathait A, Malik DS, Pasricha MK, Mishra SK, Chandola-Saklani A. (2018) Trimester - Specific Thyroid Hormone Dynamics, Iodine Reserve, and Pregnancy Outcomes: A longitudinal study. *Thyroid Res. Pract.*
2. Kapoor, Y., Kumar, K., Dubey, S. and Kar, S., (2018) CAR T cell: A Novel Treatment Regime for Cancer, *SF Jour. Pharm. Anal. Chem.*, 1-8
3. L. Thakur, R. Kapoor, and S. Kar (2018) in silico target identification and lead prediction for Prion's disease. Presented in National Seminar on Nanomedicine & Nanotechnology in Healthcare at Apeejay Stya University
4. Nikku Yadav, Atul Kathait, Asha Chandola Saklani (2017) A longitudinal study of maternal thyroid hormones and neurodevelopmental behavioral clinical milestones in offspring *European Thyroid Journal Eur Thy J DOI:10.1159/000457813*
5. Snehlata Tendi, Nikku Yadav, Jayanti Semwal, Ruchi Juyal, Asha Chandola-Saklani (2017) Monitoring of adverse pregnancy outcome in rural population from iodine deficient zones: A multi-centric pilot study from Northern India. *Eur Thy J DOI:10.1159/000457813*
6. V. Singh, V. Sansanwal, and S. Kar (2017) Sphingomyelin Modulates Structure of Apolipoprotein AI in Alzheimer's Disease. *Biophysical Journal* 112, 389a
7. A Tyagi , A Kumar, A K Yadav , A Chandola Saklani, S Grover VK Batish (2016) Functional expression of recombinant goat chymosin in *Pichia pastoris* bioreactor cultures: A commercially viable alternate. *LWT-Food Science & Technology DOI:10.1016/j.lwt.2016.01.015 IF 3.129*
8. Chandola-Saklani A, Negi K, Kathait A (2016). A brief exposure to thyroxine synchronizes the circannual testicular cycle and associated molt in the subtropical spotted munia (*Lonchura punctulata*). – *J Ornithol DOI 10.1007/s 10336-015-1296-0 IF 1.954*
9. Kathait A, Sharma DK, Reddy PN, Chandola-Saklani A (2016). Acoustic variations in the geographically isolated populations of *L punctulata* in India. *Int. J Advanced Res* 4:927-35. *SJIF 7.08*
10. Atul Kathai, DK Sharma, PN Reddy, Ajay Gaur Asha Chandola-Saklani (2016) Population diversification in geographically varied population of *Lonchura punctulata* in India based on 12SrRNA and morphometry. *W J Exp Biosci* 4: 136 – 142
11. Yadav N, Sharma V, Kathait A, Chandola-Saklani A. (2016). Comparison of an alternative and existing dbs matrix for estimation of thyroid stimulating hormone (tsh) in adults *Int. J Advance Research* 4, 1516-1525 *SJIF 7.08*
12. Sarkar S, Gupta V, Kumar V, Chaudhary M, Diyundi SC, Sehajpal PK, Thangara K, Rajender S (2015) M235T Polymorphism in the AGT Gene and A/G18-83 Substitution in the REN Gene Correlate with End-Stage Renal Disease. *Nephron* 129:104-108 (DOI:10.1159/000370074 IF 2.203)



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13. Sharma K, Kathait A, Jain A, Kujur K, Raghuvanshi S, Chandola-Saklani A, Das BC (2015). Highly increased frequency of human papillomavirus infection in adolescent girls belonging to different Indian tribes with varied life style. - PlosOne DOI: 10.1371/journal.pone.0125693 IF 2.766
14. Yadav AK, Tyagi A, Kumar A, Chandola-Saklani A, Hemlatha R, Batish VK (2015) Adhesion of Lactobacilli and their Anti-infectivity potential. Critical reviews in food science and nutrition DOI:10.1080/10408398.2014.918533 IF 6.077
15. Gupta S, Kahait A, Sharma V (2015). Computational Sequence Analysis and Structure Prediction of Jack Bean Urease, Int. J of Adv Res. 3 (2) 185-191
16. Kathait A, Yadav N, Yadav R, Sharma V (2014). Genetic Biomarkers: Novel Diagnostic Tools for Detection of Thyroid Cancer, J Pharmacy Research 8(11),1690-1693
17. Kathait A, Farswan A, Chandola-Saklani A (2014). Relative roles of Thyroxine and Tri-iodothyronine in avian molting, Eur. Thyroid J 3:73–226 DOI: 10.1159/000365244 Pp : 204- 205
18. Yadav N, Kathait A, Sharma V, Chandola-Saklani A (2014). Thyroid hormone profiles and UIE during pregnancy; A longitudinal study of a segment of Indian population, Eur. Thyroid J 3:73–226 DOI: 10.1159/000365244
19. Kathait A, Farswan A, Bamola VS, Yadav N, Chandola-Saklani A (2013). Thyroid function and Iodine Deficiency Disorders: An intensive study of eight Himalayan villages, Eur Thyroid J DOI: 10.1159/ 000352096 pp 110
20. S .Kar, M. A. Patel, R.K. Tripathy, P.Bajaj, A.H. Pande, (2013) Oxidized-phospholipids in reconstituted high density lipoprotein particles affect structure and function of recombinant paraoxonase1, BBA Molecular and Cell Biology of Lipids, 1831: 1714-1720
21. Atul Kathait et al. Phylogeography of Spotted munia, *Lonchura punctulata* using molecular and acoustic markers (2015) International Ornithological Congress of Southeast Asia, Khon Kaen University, Thailand
22. Atul Kathait, Sakshi Saxena et al (2015) Daily advances in sunrise during vernal equinox synchronise the circannual clock of Spotted Munia with the annual calendar. International Ornithological Congress of Southeast Asia, Khon Kaen University, Thailand
23. Kirti Sharma, Atul Kathait, R Sharma, A Jain, K Kujur, A Chandola-Saklani, BC Das Comparative study on prevalence of HPV (human papillomavirus) infection in tribal belt of India: Madhya Pradesh, Chhatisgarh and Jharkhand, (2014) Symposium on Frontiers in Biomedical Research, University of Delhi
24. Atul Kathait, N Yadav, A Chandola-Saklani (2014) Role of Six Sigma in Pharmaceutical & Healthcare Industry, , National conference on Breaking New Grounds in Pharmaceutical Research, Manav Bharti University
25. Nikku Yadav, Atul Kathait, A Chandola-Saklani (2014) Medical Drug Coding System: An Effective tools for avoiding medication error, National conference on Breaking New Grounds in Pharmaceutical Research, Manav Bharti University
26. Kirti Sharma, Atul Kathait, K Kujur, R Sharma, A Jain, A Chandola-Saklani, BC Das (2013) Epidemiology of HPV infection in sexually active women of tribal population of Madhya Pradesh, Chhattisgarh and Jharkhand in India., In 32nd Annual Convention of Indian Association of Cancer Research, ACBR, Delhi University, 252 pp.



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27. Asha Chandola- Saklani, Atul Kathait, N Yadav, D Kumar (2012) Iodine status and thyroid function in Himalayan mountain populations, Eur. Thyroid J DOI:10.1159/000339890 Karger publication, Basel
28. Asha Chandola-Saklani, K Negi, Atul Kathait, A Farswan, D Kumar (2010) Ecophysiology of circannual clock in birds, 25th International Ornithological Congress, Campos do Jordao Brazil

Participation in Scientific Conf/Meetings/Study visits abroad

1. Research Internship in Bioinformatics Division, Nottingham Trent University, UK, July 2018
2. 40th Conference, European Thyroid Association, Belgrade, September 2017
3. 39th Conference, European Thyroid Association, Copenhagen, Denmark, September 2016
4. 2nd International Ornithological Congress South East Asia, Khon Kaen, Thailand, July 2015
5. School of Life Sciences, University College of Ålesund, Norway, March 2015
6. Central Dept. of Biotechnology, Zoology, Tribhuvan Univ Kathmandu, April 2015
7. 38th Conf. - European Thyroid Association, Santiago de Compostela, Spain, September 2014
8. 27th International Ornithological Congress, Tokyo, Japan, August 2014
9. 37th Conf. - European Thyroid Association, Leiden, Netherlands, September 2013
10. ICCIDD Symposium (International Council for Control of Iodine Deficiency Disorders), ETA Leiden, Netherlands, September 2013
11. Royal Society London, UK, July 2013. Meeting with Sir BK Follett FRS, Prof. Russell Foster FRS
12. Research internship Chinese Academy of Sciences, Beijing, China, June-August 2012
13. Floriade International Dialogue (Food Sustainability), Venlo, Netherlands, June 2012
14. Annual Meeting of Biophysical Society, San Diego, California USA, February 2012
15. 35th Conference - European Thyroid Association, Krakow, Poland September 2011
16. 26th International Ornithological Congress, Sao Paulo, Brazil, August 2010

Research Grants/Fellowships/Awards

1. ICMR Grant for Symposium Organization, 2018
2. UGC Rajiv Gandhi Grant for PhD Fellowship, 2014
3. DST SERB Research Grant 2014 in Collaboration with IGIB
4. Young Investigator Travel Grant presented paper in 37th Int. Conf. ETA September 2013
5. ICMR RAship to PhD Fellow, 2012, Collaboration with ACBR, DU
6. Young Scientist Award (Gold Medal) 2012, Indian Academy of Environmental Sciences
7. Chinese Academy Exchange Program Fellowship for 3 months in Beijing Lab, June 2012
8. DBT Postdoc RAship, 2011



Organization of Workshops

1. Student Interactive Workshop for Undergraduates in Haryana on 'Biosciences for Industry : Modern Tools, Informatics & Research Orientation' (Indian Science Academies – Apeejay Stya University Joint Venture), 25-27 February 2012
2. Student Interactive Workshop for Undergraduates in Haryana on 'Biosciences for Industry : Biotech, Pharma, Medicine & Informatics' (Indian Science Academies– Industry Joint Venture), 24-26 March 2012
3. SBS_Linkages Program Series: 'Early Research Orientation' 1 Mar 2013, 23 Mar 2013, 2 Jun 2013
4. Science Academies Workshop on 'Skill Development & Career Orientation: Biotech, Pharma, Medicine, Informatics', Kullu, Himachal Pradesh, 11-13 May 2013
5. Career Counseling Workshop on 'Career options in Biotech BioPharma Medicine Bio-IT', UniGlobe Academy, Kathmandu, Nepal, March 2015
6. Student workshop on '21st Century as the Era of Biology: Jobs Galore', 17 October 2016
7. Indo-Nepalese Workshop on 'Early Research Orientation', 21-22 October 2016.
8. Workshop on 'Cloud based Bioinformatics tools in Healthcare', November 2017
9. Lecture cum workshop on 'Challenges in Translational Approaches for Biopharmaceuticals', November 2018

Organisation of Symposia

1. A session on, 'Ecophysiology of the Circannual Clock & Long Term Timing Mechanisms' with Prof. Barbara Helm, University of Glasgow, UK, in International Symposium, 27th International Ornithology Congress, Tokyo 2014
2. Session on 'Linkages for Development & Integration of Population-Specific Databases in Healthcare' SciDataCon 2014, International Conference on Data Sharing & Integration for Global Sustainability, Nov 2014, Convention Centre, JNU, Delhi (session organised)
3. Session on 'Policies & Practices in Public Health & Food Security: The Data Challenge' SciDataCon 2014, International Conference on Data Sharing & Integration for Global Sustainability November 2014 Convention Centre, JNU, Delhi (session organised)
4. Academia-Industry Symposium on 'Bio and Information Technology for Healthcare', April 2017
5. Indo-UK Symposium on 'Precision Medicine: Gene, Environment and the Data Challenges', March 2018



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Major Research Projects

1. Molecular Epidemiology of Human Papilloma Virus in Indian Tribal Population
2. Establishment of Normative Reference Range for Thyroid Hormones in Indian Pregnant Women
3. Etiology of Iodine Deficiency Disorders
4. Homology Modeling of Urease Enzymes