



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 Jordo 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