



INSTITUTE OF HOME ECONOMICS
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Designation	ASSISTANT PROFESSOR	
E-mail	taruna.arora@ihe.du.ac.in	
Educational Qualifications: MSc (Biotechnology), PhD (Biochemistry)		
Teaching experience: 13 years 6 months		
Subjects/Papers Taught Human Physiology, Metabolism of carbohydrates and Lipids, Metabolism of amino acids and nucleotides, Biochemistry of hormones, biomolecules, techniques in Biochemistry, tools and techniques in Biochemistry, Biophysics, molecular biology, Enzymes, intermediary metabolism, nutritional Biochemistry, Proteins and Enzymes, advance techniques		
Awards received		
Research Interest/Specialization: Biochemical endocrinology		
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Research Projects		
Title	Funding agency/organization	Duration of Project
“Biochemical and Immunological Investigations on Pregnant Mare Serum Gonadotropin”	UGC post-doctoral fellowship for women	1 year
“Structure–Function Relationship In Buffalo Pituitary Thyrotropin Hormone Family”	DST WOS-A	3 years

Research papers since 2010 (APA format)

1. Taneja, J., **Arora T.**, Jain, A., Mansukhani, C., Bhalla, L., Nanda, S. (2020). Polycystic ovary syndrome risk: efficacy of self-assessment test. *Int J Reprod Contracept Obstet Gynecol.* 9:2915-20.
2. Marothia, M., Goyal, D., Arora, T., Bhatia, R. (2017). Comparative evaluation of antibacterial, antifungal and antioxidant activity of silver nanoparticles synthesized using *Cassia tora l* leaf extract and glucose. *International Journal of Recent Research Aspects*, 4(2), 149-154.
3. Kumari, N., Arora, T., Basu Modak, S., Muralidhar, K. (2015). A critical review of gonadotropic activity of pregnant mare serum gonadotropin in *Asian Journal of Science and Technology*, 6 (10) , 1933-1940
4. Tyagi, N., Hossain, M.S., Arora, T., Muralidhar, K. (2015). Comparison of an in- house elisa kit with a commercially available kit for the measurement of pregnant mare serum gonadotropin (PMSG) in *International Journal of Bioassays* 4.10 , 4431-4435
5. Vashistha, N., Dighe, R., **Arora, T.**, Kumari, N., Muralidhar, K. (2014). Cloning and Expression of Biologically Active Buffalo Thyroid Stimulating Hormone (Butsh) in Methylotropic Yeast *Pichia pastoris* in *Austin Journal of Biotechnology & Bioengineering*, 1(4): 9.
6. Vashistha, N., **Arora, T.**, Nath, R., Muralidhar, K. (2012). A simple method for isolation of three reproductive hormones together from the same batch of freshly frozen buffalo pituitaries collected from abattoirs in *Novus International Journal of Pharmaceutical Technology*, 1(2): 9-17.
7. **Arora, T.**, Patel, P., Muralidhar, K. (2012). Assessment of pseudo affinity chromatography using textile dyes for isolation of buffalo pituitary luteinizing hormone *International Scholarly Research Network; ISRN Chromatography Article ID 639514*, 1-8
8. **Arora, T.**, Nath, R., Vashistha, N., Kumari, N., Hussain, S.S., Muralidhar K. (2012). Mechanistic investigations of the dual activity of Gonadotropins using target tissue cAMP level as a response parameter in *World J Life Sci. and Medical Research*, 2(4):150-158. (ISSN 1082-6076)
9. Chaudhary, R., **Arora, T.**, Vashistha, N., Gera, S., Muralidhar K. (2012). Interaction between Cibacron blue F3GA and Luteinizing Hormone: a Chromatographic investigation in *IOSR Journal of Pharmacy*, 2(2) , 242-256.
10. Gautam, J., **Arora, T.**, (2011). Biotechnology in the agricultural perspective, *Sci. & Cult.* 77 (5-6) 213-216.
11. Garg, S., Rathi, B., Attri, P., Tyagi, Y., Sharma, V., **Arora, T.**, Rambabu, Singh, R.P., Kumar, R. (2011). Antioxidant and Anti-bacterial Evaluation of Substituted Thiols Synthesized by A Kinetically Fast, Economic and Environment friendly Approach in *Journal of Pharmacy Research* ,4(1),171-174.
12. Vashistha, N., **Arora, T.**, Muralidhar K. (2010). Characterisation of a Reference Preparation of Indian Water Buffalo Pituitary Glycoprotein Reproductive Hormones. In *ENDOCRINE REVIEWS*, 31(3)P2-314.
13. **Arora, T.**, Vashistha, N., Chaudhary, R., Muralidhar K. (2010). Pseudo affinity chromatographic approach to probe structural heterogeneity in buffalo pituitary Luteinizing Hormone: Probable pseudo lectin like behavior of immobilized Cibacron blue F3GA in *Journal of Chromatography (B)*, 878, 2679-2684
14. **Arora, T.**, Vashistha, N., Muralidhar K. (2010). *Journal of Liquid Chromatography & Related Technologies*, 33(5);680-692 ; Chromatographic separation of Thyroid stimulating hormone from Luteinizing hormone (Impact factor 1.2). (ISSN 1082-6076)
15. Garg, S., Sharma, V., Attri, P., Rathi, B., **Arora, T.** (2010). Biological evaluation of *N*-Aryl and *N*-Alkyl Piperazine Derivatives Synthesized by a Kinetically Fast, Economic and Environment Friendly Ionic Liquid Triethylammonium Tetrafluoroborate [Et₃NH] [BF₄] in *Journal of Pharmacy Research*, 3(9), 2280-2283.
16. Hussain, S.S., **Arora, T.**, Chaturvedi, M.M., Basu-Modak, S., Chaudhary, R., Muralidhar K. (2019); Regulation of Ascorbic acid by gonadotropins in rat Ovary; *BIORXIV PREPRINT* ; doi: <https://doi.org/10.1101/665752>

Book chapters published/edited

1. Taneja, J., **Arora T.**, Jain, A., Mansukhani, C., Bhalla, L., Nanda, S. (2021). Study on Polycystic Ovary Syndrome Risk: Efficacy of Self-Assessment Test; Chapter 11, Print ISBN: 978-93-91473-77-8, eBook ISBN: 978-93-91473-78-5
2. Iqbal, j., Behl, G., Walker, G., Edin, C., Kumar, P., O'Reilly, N., Bhatia, R., Fitzhenry, L., **Arora T.** (2019). Nanoparticulate Drug Delivery Systems for the Oral Administration of Macromolecular Drugs; Nanoparticles in Pharmacotherapy | Recent progress of nanoparticles in pharmacotherapy; Edited by Alexandru Mihai Grumezescu, Chapter-6, 147-193, Elsevier Inc USA; <https://doi.org/10.1016/B978-0-12-816504-1>
3. **Arora T.** (2014). E-Content writing for FYUP, Discipline Courses in Institute of Lifelong learning, University of Delhi for Botany a chapter entitled 'Introduction to amino acids, peptides and proteins'. (ISSN 2349-154X)
4. **Arora T.** (2014). E-Content writing for FYUP, Discipline Courses in Institute of Lifelong learning, University of Delhi for Botany a chapter entitled 'Disaccharides and Polysaccharides'. (ISSN 2349-154X)
5. **Arora T.** (2014). E-Content writing for FYUP, Discipline Courses in Institute of Lifelong learning, University of Delhi for Botany a chapter entitled 'Bioenergetics'. (ISSN 2349-154X)

Popular articles:

1. Shireen, S., Mukkawat, V., Bhatia, R., **Arora T.** (2017). CRISPR-Cas 9- A tool to make world better! in [www.biokaryon.com/CRISPR-Cas 9- A tool to make world better/](http://www.biokaryon.com/CRISPR-Cas-9-A-tool-to-make-world-better/)
2. Mukkawat, V., Shireen, S., Bhatia, R., **Arora T.** (2017). Next Generation Sequencing- An Upcoming Innovation!! in [www.biokaryon.com/ Next Generation Sequencing- An Upcoming Innovation/](http://www.biokaryon.com/Next-Generation-Sequencing-An-Upcoming-Innovation/)