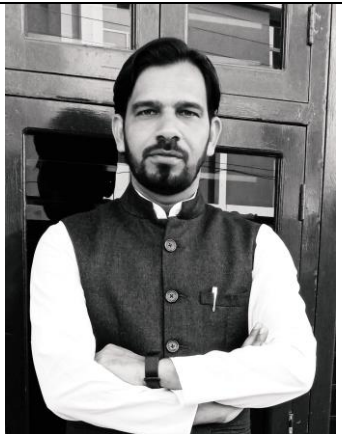




INSTITUTE OF HOME ECONOMICS
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Subjects/Papers Taught: Nutritional Biochemistry Biomolecules Protein and Enzymes Plant Biochemistry Human Physiology Hormone Biochemistry Metabolism of Carbohydrates and Lipids		
Awards received Best oral presentation award in National Conferences: 02 Research Associateship (RA) awarded by Indian Council of Medical Research (ICMR)		
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Research Projects		
Title	Funding agency/organization	Duration of Project

Research papers since 2010 (APA format)

1. Vachher, M.,* **Yadav, S.,*** Gopal, P., Chopra, S., Grover, N., Vanshika., Sharma, S., Burman, A., Trilok-Kumar, G. (2021). A Sustainable Option of Developing Kitchen Gardens Based on Air Pollution Tolerance Index (APTI) Method of Plants with Edible Leaves for Health and Well Being. *The Ind. J. Nutrit. Diet.*, 58, 54-67.
2. Singh, M., **Yadav, S.** (2014). A label-free electrochemical protein sensor of perchloric acid doped polyaniline. *Int. J. Pharm. Anal. Res.* 3, 157-168. [IF = 3.056]
3. Pundir, C.S., Yadav, S., Kumar, S. (2013). Creatinine sensors. *Trends in Anal. Chem.* 50, 42-52 [IF = 12.296]
4. Devi, R., Batra, B., Lata, S., **Yadav, S.,** Pundir, C.S. (2013). A method for determination of xanthine in meat by amperometric biosensor based on silver nanoparticles/ cysteine modified Au electrode. *Process Biochem.* 48, 242–249 [IF = 3.757]
5. Kundu, N., **Yadav, S.,** Pundir, C.S. (2013). Preparation and characterization of glucose oxidase nanoparticles and their application in dissolved oxygen metric determination of serum glucose. *J Nanosci. Nanotechnol.* 13, 1710-1716. [IF = 1.354]
6. Devi, R., **Yadav, S.,** Nehra, R., Yadav, S., Pundir, C.S. (2013). Electrochemical biosensor based on gold coated iron nanoparticles/chitosan composite bound xanthine oxidase for detection of xanthine in meat samples. *J. Food Engg.* 115, 207-214. [IF = 5.354]
7. Batra, B., Lata, S., Devi, R., **Yadav, S.,** Pundir, C.S. (2012) Fabrication of an amperometric tyramine biosensor based on immobilization of tyramine oxidase on AgNPs/L-Cys modified Au electrode. *J. Solid State Electrochem.* 16, 3869-3876. [IF = 2.646]
8. **Yadav, S.,** Devi, R., Bhar, P., Singhla, S., Pundir, C.S. (2012). A creatinine biosensor based on iron oxide nanoparticles/chitosan-g-polyaniline composite film electrodeposited on Pt electrode. *Enz. Microb. Technol.* 50, 247-254. [IF = 3.493]
9. Devi, R., Narang, J., **Yadav, S.,** Pundir, C.S. (2012). Amperometric determination of xanthine in tea, coffee and fish meat with graphite rod bound xanthine oxidase. *J. Anal. Chem.* 67, 273-277. [IF = 0.840]
10. Devi, R., **Yadav, S.,** Pundir, C.S. (2012). Amperometric determination of xanthine in fish meat by zinc oxide nanoparticles/chitosan/multiwalled carbonnanotube/polyaniline composite film bound xanthine oxidase. *Analyst* 137, 754-759. [IF = 4.616]
11. Devi, R., **Yadav, S.,** Pundir, C.S. (2012). Au-Colloids-polypyrrole nanocomposite film for xanthine biosensor. *Colloids and Surfaces A: Physicochem. Engg. Aspects* 394, 38-45. [IF = 4.539]
12. Devi, R., **Yadav, S.,** Pundir, C.S. (2011). Electrochemical detection of xanthine by xanthine oxidase immobilized on carboxylated multiwalled carbon nanotubes/polyaniline composite film. *Biochem. Engineering J.* 58-59, 148-153. [IF = 3.978]
13. **Yadav, S.,** Kumar, A., Pundir, C.S. (2011). Amperometric determination of creatinine with covalently co-immobilized enzymes onto carboxylated multiwalled carbon nanotubes/polyaniline composite film on Pt electrode. *Anal. Biochem.* 419, 277-283. [IF = 3.365]
14. **Yadav, S.,** Devi, R., Kumar, A., Pundir, C.S. (2011). Tri-enzyme functionalized ZnO-NPs/ CHIT/c-MWCNT/PANI composite film for amperometric determination of creatinine. *Biosens. Bioelectrons.* 28, 64–70. [IF = 10.618]
15. Lata, S., **Yadav, S.,** Bhardwaj, R., Pundir, C.S. (2011). Amperometric Determination of Tyramine in Sauce and Beer by Epoxy Resin Biocomposite Membrane bound Tyramine Oxidase. *Sens. Instrument. Food Quality Safety* 5, 104-110.
16. **Yadav, S.,** Devi, R., Pundir, C.S. (2011). An amperometric oxalate biosensor based on polypropylene tip bound sorghum oxalate oxidase. *Sens. Letts.* 9, 1661-1665. [IF = 0.811]
17. **Yadav, S.,** Devi, R., Kumari, S., Yadav, S., Pundir, C.S. (2011) An amperometric oxalate biosensor based on sorghum oxalate oxidase bound carboxylated multiwalled carbon nanotubes–polyaniline

composite film. *J. Biotechnol.* 151, 212–217. [IF = 3.307]

18. Dahiya, T., **Yadav, S.**, Chauhan, N., Handa, P., Pundir, C.S. (2010) Strawberry Fruit Oxalate Oxidase-Detection, Purification, Characterization and Physiological Role. *J. Plant Biochem. Biotechnol.* 19, 247-250 [IF = 0.773]

Book chapters published/edited

1. **Yadav, S.**, Saini, A., Vasdev, K. (2020). Nanobiosensors. In S. Yurish (Ed.). *Advances in Biosensors: Reviews Volume 3* (pp 273-333) International Frequency Sensor Association Publishing.
2. Saini, A., **Yadav, S.**, Vasdev, K. (2020). Enzyme Biosensors. In S. Yurish (Ed.). *Advances in Biosensors: Reviews Volume 3* (pp 223-272) International Frequency Sensor Association Publishing.

Any other

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