

ACADEMIC PROFILE

Dr. Sandeep Singh

Assistant Professor

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Positions Held

- **Guest Faculty**, Department of Biochemistry, Maharshi Dayanand University, Rohtak -India (15th November, 2005 to 28/02/10).
- **Assistant Professor**, Department of Biochemistry, Maharshi Dayanand University, Rohtak -India (15th March, 2010 onwards)

Higher Education & Research

- **Ph.D.** Department of BioSciences (*erstwhile*), Maharshi Dayanand University, Rohtak, India (March, 1999 – January, 2003)
- **M.Sc. (Biochemistry)**, Maharshi Dayanand University, Rohtak (India) (1st Division, 63.8% (July 1996 – Jun, 1998)
- **B.Sc. (Botany, Chem, Zoology)**, Maharshi Dayanand University, Rohtak (July, 1992 – June, 1995)

Research Interests

- Oxidative stress induced changes in plant system; use of enzymes in biosensors

Research Guidance

Ph.D.- 3 (completed) and M.Sc. (Dissertations) - 35

Conference/Workshop Organization

- **Joint-Secretary**, National Seminar on “Emerging Trends in Biochemistry” organized by Dept of Biochemistry, M. D. University, Rohtak (Haryana) (15th Sept’ 2017-16th Sept’ 2014).
- **Joint-Secretary**, National workshop on “Genomics and Proteomics” organized by Dept of Biochemistry, M.D. University, Rohtak (Haryana) (3rd March, 2014-5th March, 2014).
- **Member**, organizing committee of DST-INSPIRE PROGRAMME organized by Centre for Biotechnology, M. D. University, Rohtak (April 28-May 2, 2012).

Academic Achievements

- **Member**, PGBOS (Biochemistry) w.e.f. April'2012 for two years and w.e.f. April' 2016 for another 2 years
- **Member**, Faculty of Life Sciences appointed by the University (w.e.f. 29.05.2016 for one year)
- **First prize for poster** presented in International Conference on Nanomaterials in Mahatma Gandhi University, Kottayam (Kerala) during 10-12 Feb' 2017.

Conferences/Workshops attended: (Last 4 years)

1. A poster titled "*Impacts of proline.....H. vulgare cultivar HB-393*" presented in **National workshop on Genomics in Crop Improvement** hosted by Centre for Biotechnology, MDU, during 27-28 February, 2014.
2. Attended DST sponsored **Workshop on Mass Spectrometry for Proteomics**, organized Advanced Instrumentation Research Facility, JNU (Delhi), during 6-8 August, 2014.
3. Presented a poster in **National Conference on "Applied Physics and Material Science"** organized by Department of Physics, MDU, during February 5-6, 2015.
4. Attended **National Seminar on "Innovative Researches in Life Sciences"** hosted by Department of Zoology, MDU, on February 21, 2015.
5. Presented poster titled, "*Synthesis and Optimization of ZnO nanorods based LDH biosensor for lactate estimation*" in **International Conference on Nanomaterials** organized by Mahatma Gandhi University, Kottayam (Kerala), during 10-12 Feb'2017.

Publications: (Last 5 years)

1. CS Pundir, Chauhan N, Narang J, Pundir S and **Singh S** (2013). Laboratory diagnosis of swine flu: A review. *Artif Cells Nanomed Biotechnol.* 41: 189-195. 2013-14
2. Govinda, Sharma A and **Singh S** (2014). NaCl and Cd stress effect on shoot growth of potato cultivar. *Int. J. Res.* 1: 371-374. 2014-15
3. Govinda, **S Singh** and Yogesh (2014). Modification of hydrolytic enzymes in NaCl stressed Vigna mungo cultivar (PV-35) shoots. *Int. J. Innov. Pharma. Sci. Res.* 2: 1861-68. 2014-15
4. Govinda, Sharma A and **Singh S** (2014). A brief review of varieties of Solanum tuberosum. *Int. J. Innov. Pharma. Sci. Res.* 2: 2590-95.
5. Narang J, Malhotra N, Singh G, **Singh S** and Pundir CS (2015). Monitoring analgesic drug using sensing method based on nanocomposite. *RSC Adv.* 5: 2396-2404.
6. Narang J, Jain U, Malhotra N, **Singh S** and Chauhan C (2015). Development of lysine biosensor based on core shell magnetic nanoparticle and multiwalled carbon nanotube composite. *Adv. Mater. Lett.* 6: 407-413. **0976-3961**
7. Narang J, Malhotra M, Chauhan N, **Singh S**, Singh G and Pundir CS (2015). Development and validation of biosensing method for acetaminophen drug monitoring. *Adv. Mater. Lett.* 6: 209-216.

8. Rathee K, Dhull R and **Singh S** (2015). Synthesis of zinc oxide nanorods on gold substrate & their characterization. *Der Pharmacia Lettre*. 7: 355-361.
9. **Singh S**, Kumari L and Govinda (2015). Effects of cadmium stress on antioxidant enzymes in *Vigna radiata* roots. *Int. J. Pharmaceu. Sci. Res.* 6: 2882-2885.
10. Rathee K, Dhull V, Dhull R and **Singh S** (2016). Biosensors based on electrochemical lactate detection. A comprehensive review. *Biochem Biophys Reports*. 5: 35-54.
11. Dhull, R., Rathee, K. and **Singh, S** (2016). Synthesis of zinc oxide nanorods on platinum wire & fabrication of triglyceride biosensor. *Der Pharmacia Lettre*, 8(6), 170-181.
12. Govinda, Sharma, A. and **Singh, S** (2017). Modulation of antioxidant enzymes systems by kinetin in salt stressed shoots of *Zea mays*. *Int Res J Pharmacy*, 8(2): 1-9.
13. Dhull, R., Dhull, V., Rathee, K. and **Singh, S.** (2017). A review on evolution in triglyceride determination. *Der Pharma Chemica*, 9(2), 30-36