

Dr. HEMANT KUMAR

Assistant Professor

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Academics

Doctor of Philosophy (Biotechnology-Medicine) from the Department of Medicine, Institute of Medical Sciences, BHU in 2011.

Master of Science in Biotechnology (2003) from C.S.J.M University, Kanpur, India (First Division.-61.30).

Bachelor of Science Chemistry and Botany (1999) From C.S.J.M University, Kanpur, India (First Division.-64.67).

Intermediate (10+2), Biology group (1995) from U.P. Board, India (First Division.-70.4).

High School (10), Science group (1993) from U.P. Board, India (First Division.-77.7).

General Course on Intellectual Property from World Intellectual Property Organization (WIPO), Switzerland in April 2010.

Ph.D. Research Title

For completion of doctoral degree I worked on the research project entitled “**Study of pancreatic β -cell function, insulin sensitivity, insulin resistance with soluble apoptotic and proinflammatory markers in newly diagnosed type 2 diabetes mellitus**” under supervision of Prof. K. Tripathi, I.M.S.,BHU, Varanasi.

Fellowship/Awards

19/09/2006 - 18/09/2008: Junior Research Fellowship (JRF), University Grant Commission, India, from IMS, BHU.

19/09/2008 - 31/08/2011: Senior Research Fellowship (SRF), University Grant Commission, India, from IMS, BHU.

Graduate Aptitude Test in Engineering (GATE): Qualified- Percentile Score 94.5.

Teaching Experience

Presently I am working as assistant professor in the Department of Biotechnology in Bundelkhand University campus since 30/10/2013. During this period I have taught Microbiology, Enzymology, Plant Biotechnology, Tissue culture and Recombinant DNA Technology.

List of Publications

Published in Journals:

1. Mishra M, **Kumar H**, Tripathi K. Diabetic delayed wound healing and the role of silver nanoparticles. Dig J Nanomater Bios 2008; 3 (2): 49-54.

2. Mishra M, **Kumar H**, Singh R K, Tripathi K. Diabetes and nanomaterials. *Dig J Nanomater Bios* 2008; 3 (3): 109-113.
3. Vijay S K*, Mishra M*, **Kumar H**, Tripathi K. Effect of pioglitazone and rosiglitazone on mediators of endothelial dysfunction, markers of angiogenesis and inflammatory cytokines in Type-2 Diabetes. *Acta Diabetol* 2009; 46: 27–33. (* Equally contributed).
4. Mishra M, **Kumar H**, Pokharia D, Arya A K, Bajpai S, Singh R K, Rai M, Tripathi K. Effect of pioglitazone, rosiglitazone and glipizide on NO_x, TNF- α , VEGF, angiogenin in type 2 diabetes mellitus with cardiovascular complications. *Diabetes* 2009; 58 (suppl.1): A131-A131.
5. Gour J K, Srivastava A, Kumar V, Bajpai S, **Kumar H**, Mishra M, Singh R K. Implications of nanomedicine in Leishmaniasis. *Dig J Nanomater Bios* 2009; 4 (3): 495-499.
6. Mishra M, **Kumar H**, Pokharia D, Arya A K, Bajpai S, Singh R K, Tripathi K. Comparative study of IL-12p70 in controlled and uncontrolled type 2 diabetes. *Diabetes* 2010; 59 (suppl.1): A581-A582.
7. **Kumar H**, Mishra M, Pokharia D, Arya A K, Bajpai S, Singh S K, Singh R K, Tripathi K. sFas-L correlates negatively with insulin resistance in T2DM. *Diabetes* 2010; 59 (suppl.1): A651-A651.
8. Mishra M, **Kumar H**, Bajpai S, Pokharia D, Arya A K, Singh R K, Tripathi K. PPAR- γ agonists Vs glipizide: A comparative evaluation on markers of endothelial dysfunction and angiogenesis in north Indian type 2 diabetes mellitus with cardiovascular complications. *World Heart J* 2010, 2 (2): 111-118.
9. Bajpai S, Mishra M, **Kumar H**, Tripathi K, Singh S K, Srikrishna S, Pandey H P, Singh R K. Comparative study of connexins expression in diabetic and nondiabetic wounds. *Dig J Nanomater Bios* 2010; 5 (3): 857-862.
10. Arya A K, Pokharia D, Mishra M, **Kumar H**, Tripathi K. Impact of lymphocyte apoptosis in diabetes mellitus. *Asian J Med Sciences* 2011; 2(1):1-6.
11. Thukral A, Mishra M, Srivastava V, **Kumar H**, Dwivedi A N D, Shukla R C, Tripathi K. Determinants of intravascular resistance in Indian diabetic nephropathy patients: A hospital based study. *International Journal of Vascular Medicine* 2011; 2011: 656030.
12. Bajpai S*, Mishra M*, **Kumar H**, Tripathi K, Singh S K, Pandey H P, Singh R K. Effect of selenium on connexins expression, angiogenesis and antioxidant status in diabetic wound healing. *Biol Trace Elem Res* (DOI: 10.1007/s12011-011-9097-7) (*Equally contributed) (Online First available).
13. **Kumar H***, Mishra M*, Bajpai S, Pokharia D, Arya A K, Singh R K, Tripathi K. Correlation of insulin resistance, beta cell function and insulin sensitivity with serum sFas and sFasL in newly diagnosed type 2 diabetes. *Acta Diabetol* (DOI:10.1007/s00592-011-0307-8)(Accepted 2011) (*Equally contributed).
14. Mishra M*, **Kumar H***, Bajpai S, Singh RK, Tripathi K. Level of serum IL-12 and its correlation with endothelial dysfunction, insulin resistance, proinflammatory cytokines and lipid profile in newly diagnosed T2DM. *Diabetes research & clinical practice* (*Equally contributed). (DOI:10.1016/j.diabres.2011.07.037) (Online Available, 2011)
15. Bajpai S, Mishra M, **Kumar H**, Tripathi K, Singh R K. Effect of different antidiabetic drugs on diabetic wound healing via regulation of connexins and oxidative stress markers. *Diabetes* 2011; 60 (suppl.1): A289-A289.
16. Rajput PK, Katiyar AK, Kumar Y, **Kumar H**, Evaluation of pearl millet genotypes under moisture conservation practices in eroded soil under rainfed condition. *Journal of Pharmacognosy and Phytochemistry* 2021; 10(6): 138-141
17. Rajput PK, Kumar Y, Katiyar AK, **Kumar H**, Response of pearl millet cultivars to different moisture conservation practices under rainfed condition on light textured soil of central Uttar Pradesh, India. *Plant Archives* 2022;22(1):105-108

Book/ Book Chapter

18. Tripathi K, Thukral K, **Kumar H**, Mishra M, Deepa Pokharia. Acute Renal Injury- prognostic biomarkers. Post Graduate Medicine, Vol XXIII 2009.

Conference Proceedings

19. Mishra M, **Kumar H**, Kumar L, Pokharia D, Arya A K, Shukla V K, Tripathi K. Effect of PPAR- γ agonists (Pioglitazone and Rosiglitazone) on angiogenic markers in diabetic wound. Third Congress of the World Union of Wound Healing Societies-2008, 4-8 June, CANADA.
20. **Kumar H**, Mishra M, Pokharia D, Kumar L, Arya A K, Shukla V K, Tripathi K. Glycaemic control affects the apoptosis during delayed diabetic wound healing. Third Congress of the World Union of Wound Healing Societies-2008, 4-8 June, CANADA.
21. Mishra M, **Kumar H**, Bajpai S, Singh R K, Tripathi K. Serum IL-12 and endothelial dysfunction markers in newly diagnosed type 2 diabetic patients. 4th International Conference of Diabetes India-2011, 15-17 April, New Delhi.
22. Bajpai S, Mishra M, **Kumar H**, Tripathi K, Singh R K. Effect of glibenclamide and pioglitazone on connexin regulation and diabetic wound healing. 4th International Conference of Diabetes India-2011, 15-17 April, New Delhi.
23. Joint secretary in an International conference on Advances in forensic DNA technology ICAFDT-2018 from 22-24th February 2018, organized by Department of Forensic science and Criminology, Bundelkhand University, Jhansi.
24. Joint secretary in a National conference on “Future perspective of forensic Science in INDIA” from 09-10th March 2017, organized by Department of Forensic science and Criminology, Bundelkhand University, Jhansi.
25. National Conference attended on “Current Scenario and Future Trends in Biotechnology, Biofuturity-2018” from March 27-28, organized by Department of Biotechnology Engineering, IET, , Bundelkhand University, Jhansi.
26. National Conference attended on “Recent trends and new frontiers in biotechnology, agriculture, science and environment- 2020” from February 22-23, organized by Pathfinder research and training foundation, Greater Noida.

Workshops and Trainings

1. “3rd DBT Course on Biotechnology” from 11th March to 31th March 2009 at SGPGI, Medical Sciences, Lucknow, Uttar Pradesh, India.
2. Attended the workshop on “Hands on training of Flow cytometry”, 7th to 9th April, 2009 from BD Biosciences, Gurgaon, India.
3. Faculty training program on “**Advance scientific research equipments**” organized by Innovation Centre Bundelkhand University Jhansi from 3-6 October 2018.