

Brief Academic profile

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1. **Area Of Interest/Specialization:** Molecular diagnostics of viral diseases of Human and livestock.

2. **Academic Qualification:**

Degree	Year	University/Institute
B.V.Sc. & A.H.	2007	SVVU, Tirupati
M.V.Sc. (Animal Biotechnology)	2010	CCSHAU, Hisar
PhD (Animal Biotechnology)	2017	LUVAS, Hisar

3. **Professional position held so far**

Name of Post/Designation	Duration (from...to....)	University/Institute	Nature of duties
Research Associate	9-9-2010 to 12-1-2012	LUVAS, Hisar, Haryana	Temporary
Assistant Professor	12-3-2014 to till date	SVPUAT, Meerut	Permanent

4. **Membership of Professional Organization/Societies:**

- a.) Association of Microbiologists of India, New Delhi.
- b.) India Society for advancement of canine practice, Lucknow.
- c.) Society for veterinary science and biotechnology, Indore.
- d.) Asian Council of Science Editors

5. **Awards & Honours (If any):**

i. **Awards/Scholarship**

- a) Dr. R.N. Srivastava **Gold Medal** for M.V.Sc. thesis from C.O.V.Sc., LUVAS, Hisar, Haryana, India.
- b) **CSIR-SRF** fellowship for PhD programme.
- c) **Studentship** by Department of Biotechnology, Govt. of India, for M.V.Sc (Animal Biotechnology) degree programme.

ii. **Award in Poster presentation**

- a) At microfest organized by Association of microbiologists of India at CCS HAU Hisar held on 23-25 February 2012.

iii. **Award in paper presentation at conference**

- a) At national conference of "Indian Virological Society" held from 8-10 November 2012 at IVRI, Mukteswar.

iv. **Best Paper Award**

- a) **Best paper award (2017)** for research article entitle "*Culicoides oxystoma* a potential vector for transmission of **Bluetongue virus 16 in southern India**" published in the Indian Journal of Veterinary Sciences & Biotechnology (IJVSBT), 2017, 12(3):112-117 by society for veterinary sciences and biotechnology.

6. Number of Scientific Publications:

Description		Publication
Scientific Publications (Full Research Paper)	National	25
	International	8
Review Articles	National	7
	International	6
Abstract	National	18
	International	20
Full paper in conference compendium	National	6
	International	2
Popular Articles		6
Manual/Course compendium/Monographs	National	9
Book Chapters	National	6
	International	6

*More than 200 gene sequences of Bluetongue virus, Rotavirus, Canine Parvovirus, Marek's disease virus and *Culicoides* genes submitted to GenBank (NCBI) Data base.

7. Selected publications:

- Kumar N, Salar RK, Prasad M, **Ranjan K** (2018). Synthesis, characterization and anticancer activity of vincristine loaded folic acid-chitosan conjugated nanoparticles on NCI-H460 non-small cell lung cancer cell line. *Egypt. Jour. Bas. App. Sci. Egypt. Jour. Bas. App. Sci.* 5 (1):87-99.
- Prasad M, Brar B, Iqbal I, **Ranjan K**, Misri J (2018). Occurrence of Neglected Picobirna Virus in Buffalo Calves Associated with Diarrhoea. *Indian J. Vet. Sci. Biotech.* 13(3):16-20.
- Prasad M, Lalme U, **Ranjan K**, Patil S, Brar B, Devi B, Panigrahi S, Prasad G, Khurana SK, Dhama K, Misri J (2018). An Insight in Biomarkers for Colorectal Cancer. *J Gastroenterol Liver Dis.* 3(1): 1010.
- Prasad M, Lambe UP, Brar B, Shah I, Manimegalai J, **Ranjan K**, Rao R, Kumar S, Mahant S, Khurana SK, Iqbal HMN, Dhama K, Misri J, Prasad G (2018). Nanotherapeutics: An insight into healthcare and multi-dimensional applications in medical sector of the modern world. *Biomed Pharmacother.* 97:1521–1537.
- Ranjan K**, Prasad M, Brar B, Prasad G (2017). First Report of Isolation of Bluetongue Virus 23 from *Culicoides Peregrinus* Vector from India. *Indian J. Comp. Microbiol. Immunol. Infect. Dis.* 38(1):16-21.
- Ranjan K**, Prasad M, Brar B, Prasad G (2017). *Culicoides oxystoma* a potential vector for transmission of bluetongue virus 16 in southern India. *Indian J. Vet. Sci. Biotech.* 12(3):112-117.
- Prasad M, **Ranjan K**, Brar B, Shah I, Lalme U, Manimegalai J, Vashisht B, Gaury M, Kumar P, Khurana SK, Prasad G, Rawat J, Yadav V, Kumar S, Rao R (2017). Virus-host interactions: new insights and advancements in drug development against viral pathogens. *Curr Drug Metab.* 18 (10):942-970.
- Prasad M, **Ranjan K**, Brar B, Manimegalai J, Prasad G (2017). An Insight in Biomarkers for Canine Parvovirus Diagnosis: A Mini-Review. *Current Biomarkers.* 7(1):12-20.
- Choudhary P, Minakshi P, **Ranjan K**, Basanti B (2017). Zoonothropotic transmission of rotavirus in Haryana State of Northern India. *Acta Virol.* 61(1):77-85.
- Chalia S, Baskar S, Prasad M, Baskar R, **Ranjan K** (2017). Biomineralization abilities of *Cupriavidus* strain and *Bacillus subtilis* strains in vitro isolated from speleothems, Rani cave, Chattisgarh, India. *Geomicrobiol.* 34(9):737–752.
- Manimegalai J, Minakshi P, Basanti B, Iqbal., Ravi K Gandham, Lambe UP, **Ranjan K**, Jyoti M (2017). Validation of Interferon Induced IFIT Genes in Host Antiviral Defence Against BTV16 Infection: An Initial Report. *Indian J. Vet. Sci. Biotech.* 13(1): 70-76.
- Singh J, Khanna S, **Ranjan K**, Pant R.P., Kumar P, Sirohi A, Baranwal V. K. (2017). Evidence of Association of Begomovirus with the Yellow vein Disease of an Ornamental Plant Pot Marigold (*Calendula officinalis*) from Western Uttar Pradesh. *J. Pure Applied Microbiol.* 11(3): 1609-1615.
- Minakshi P, **Ranjan K**, Supriya, Brar B, Prasad G (2016). Detection and Molecular Characterization of Indian Isolates of Canine Parvovirus in Fecal Samples. *J. Microbiol. Related Res.* 2(2): 89-94.
- Minakshi P, **Ranjan K**, Prasad G (2016). Segment 10 sequence based molecular characterization of bluetongue virus of Indian origin. *Indian J. Vet. Sci. Biotech.* DOI: 10.21887/tijovsab.v12i1.11230
- Ranjan K**, Prasad M, Lambe U, Guray M, Prasad G (2016). Molecular Typing of Bluetongue Virus 16 from Karnataka State of India. *J. Microbiol. Related Res.* 2(1): 43-49.

16. Prasad M, Brar B, Ikbal, **Ranjan K**, Lalme U, Manimegalai J, Vashisht B, Khurana SK, Prasad G (2016). Biotechnological tools for diagnosis of equine infectious diseases. *J. Exp. Biol. Agri. Sci.* 4(Spl-4-EHIDZ):S161-S181.
17. Lambe U, Minakshi P, Brar B, Guray M, Ikbal, **Ranjan K**, Bansal N, Khurana SK, Manimegalai J (2016). Nanodiagnosics: a new frontier for veterinary and medical sciences. *J. Exp. Biol. Agri. Sci.*, 4(3S):307-320.
18. Minakshi P, Brar B, Sunderisen K, Thomas JV, Savi J, Ikbal, **Ranjan K**, Lambe U, Guray M, Bansal N, Kumar P, Joshi VG, Khatri R, Mohan H, Pundir CS, Khurana SK and Prasad G (2016). Canine parvovirus- an insight into diagnostic aspect. *J. Exp. Biol. Agri. Sci.*, 4(3S):279-290.
19. **Ranjan K**, Prasad M, Prasad G (2016). Bats: carriers of zoonotic viral and emerging infectious diseases. *J. Exp. Biol. Agri. Sci.*, 4(3S):291-306.
20. Deswal S, Minakshi P, **Ranjan K**, Dhillon S, Malik YS and Prasad G (2015). Genetic Characterization of an Emerging G3P[3] Rotavirus Genotype in Buffalo Calves, India. *Asian J. Anim. Vet. Advances*. **10(8)**:376-385.
21. **Ranjan K**, Minakshi P, Prasad G (2015). Bluetongue: Indian perspective. *Acta virologica* 59: 317-337.
22. Singh R, **Ranjan K**, Verma H (2015). Satellite Imaging and Surveillance of Infectious Diseases. *J Trop Dis: S1-004*. doi:10.4172/2329891X.S1-004.
23. **Ranjan K**, Minakshi P, Prasad G (2015). Application of molecular and serological diagnostics in veterinary parasitology. *J. Adv. Parasitol.* 2(4): 80-99.
24. **Ranjan K**, Prasad G, Kumar P and Minakshi P (2014). Molecular characterization of segment 6 of bluetongue serotype 16 of sheep origin from India. *Adv. Anim. Vet. Sci.* 2(2): 98 – 103.
25. **Ranjan K**, Minakshi P, Kumar P and Prasad G. (2014). VP5 gene based molecular comparison of Indian and global isolates of bluetongue virus 2. *Adv. Anim. Vet. Sci.* 2 (2): 91 – 97.
26. **Ranjan K**, Prasad G, Kumar P, Minakshi P (2013). Vp5 Gene Based Molecular Characterization of Bluetongue Virus 9 from South India. *Adv. Anim. Vet. Sci.* 1 (4S): 30-36.
27. Shafiq M, Minakshi P, Bhateja A, **Ranjan K**, Prasad G (2013). Evidence of genetic reassortment between Indian isolate of bluetongue virus serotype 21 (BTV-21) and bluetongue virus serotype 16 (BTV-16). *Virus Research*. 173: 336–343.
28. Vishwaradhya TM, Minakshi P, **Ranjan K**, Supriya, Kumar P and Prasad G (2013). Sensitive detection of novel Indian isolate of BTV 21 using ns1 gene based real-time PCR assay. *Vet world*. 6(8): 554-557.
29. Minakshi, Supriya, **K. Ranjan**, J. Thomas, Basanti, K. Pawan, S. Ravinder and G. Prasad (2013). Non-occurrence of Rota and Parvoviral infections in Yak in India: an initial report. *Indian J. Comp. Microbiol. Immunol. Infect. Dis.* 33(1&2):57-59.
30. Minakshi P, **Ranjan K**, Kumar P, Prasad G. (2013). Segment 2 based characterization of a novel Indian bluetongue virus isolate. *Vet. World* 6(5):244-248.
31. Minakshi P, Singh R, **Ranjan K**, Kumar P, Joshi CG, Reddy YKM, and Prasad G (2012). Complete Genome Sequence of Bluetongue Virus Serotype 16 of Goat Origin from India. *J. Virol.*, **86(15)**: 8337.
32. **Ranjan K**, Minakshi P, Hari mohan, Rupinder, Vishwaradhya TM, Prasad G (2012). Nucleotide sequence comparison of vp5 gene of Indian isolate of bluetongue virus serotype 2. *Haryana Vet.*, 51: 29-33.
33. **Ranjan K**, Minakshi P, Hari mohan, Rupinder, Vishwaradhya TM, Prasad G (2012). Nucleotide sequence comparison of vp5 gene of Indian isolate of bluetongue virus serotype 2. *Haryana Vet.*, 51: 29-33.
34. **Ranjan K**, Minakshi, P., Shafiq, S., Pawan, K. and Prasad, G. (2011). Genetic diversity of Indian isolates of bluetongue virus 16. *Int. J. Appl. Eng. Res.* **6(5)**: 884-886.
35. Minakshi, P, Prasad, G., Nanda, T., Swati Dahiya, **Ranjan K.**, Kumar A and Hari Mohan. (2011). Single tube method for rapid detection of BHV-1 in buffalo bull semen. *Int. J. Appl. Eng. Res.* **6(5)**: 879-883.

9. Attenance/Participation in National Conference/symposia (No.): 8(Eight)

10. Additional responsibilities, if any:

- a.) Laboratory In-charge of Veterinary Biochemistry Lab.
- b.) Central Instrumentation Facility In-charge
- c.) Hostel Warden