

Faculty Profile



Name: Dr Rakesh Kumar Singh

Date of Joining: 01-03-2014

Discipline and Specialization: Veterinary Physiology

Address of communication: Assistant Professor, Dept. of Veterinary Physiology
And Biochemistry, College of Veterinary & Animal Sciences,
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Academic Qualification:

Degree	Year	University/Institute
Ph.D.	2012	Indian Veterinary Research Institute (IVRI), Izatnagar, Bareilly, Uttar Pradesh
M.V.Sc.	2006	Indian Veterinary Research Institute (IVRI), Izatnagar, Bareilly, Uttar Pradesh
B.V.Sc. & A.H	2004	NDUAT, Kumarganj, Faizabad

Professional position held so far

Name of Post/Designation	Duration (from...to....)	University/Institute	Nature of duties
Assistant Professor	May 2008 to Sept. 2008	NDUAT, Kumarganj, Faizabad	Teaching and Research
Veterinary Officer	Sept. 2008 to Feb. 2014	Uttar Pradesh Animal Husbandry Department, Lucknow	Treatment, Diagnosis and Extension

M.V.Sc. Thesis (2004 – 2006):

“Studies on the effect of higher and lower body temperature along with different CO₂ and O₂ level on *in vitro* oocyte maturation and embryo development in goat”.

Ph.D. Thesis (2006-2012):

“Studies on isolation, culture and characterization of mesenchymal stem cells in Caprine”.

Research/teaching experience:

5 Year experience of MVSc and PhD

08 months of teaching experience

Membership of Professional Organization/Societies:

- Life membership of the “Indian Science Congress Association”.
- Life membership of “Society of Animal Physiologists of India (SAPI)”.
- Life membership of “Indian Association of Animal Production, new Delhi”.
- Registered in Veterinary Council of Uttar Pradesh (Registration no. – UPVC 4318)

Awards & Honours (If any):

- Secured 15th rank in all India combined examination for JRF conducted by the ICAR held in 2004.
- Qualified NET-2006 (ICAR) in Animal Physiology.
- Qualified for ARS- 2006 (ICAR) interview in Animal Physiology.
- First rank in Ph.D. Veterinary Physiology Course work 2006-2007 Academic year IVRI, Izatnagar.
- Got IVRI Institute Ph.D. talent fellowship (2006-2008).
- Got first prize in “Hindi Sulekh Pratiyogita-2007” conducted at IVRI.
- Got second prize in “Suddh Hindi Bhasan Pratiyogita-2007” conducted at IVRI.
- Knowledge of MS- word, Power point, MS-Excel, Internet, SYSTAT, SPSS and Sigma stat etc.

Number of Scientific Publications:

Description		Published
Scientific Publications (Full Research Paper)	National	7
	International	5
Extension Publications/Lead Paper	National	1
Popular Articles/Abstracts		11
Manual		3
Chapters	National	17

Best 12 publications**A. National Research Article**

1. **Singh R.K.**, Bag Sadhan, Das B.C. and Majumdar A.C. 2009. Effect of culture temperature and gaseous phase on embryo development in goat. Indian Journal of Animal Sciences, 79(11):1107-1110.
2. **Singh R.K.**, Das B.C., Majumdar A.C. and Bag Sadhan. 2009. Simulation of body temperature and different gaseous phase on in vitro oocyte maturation and embryo development in goat. Indian Journal of Animal Sciences, 79(11):1103-1106.

B. International Research Article

3. Kumar Ashok, Kumar Kuldeep, Singh Renu, Puri Gopal, Ranjan R., Yashotha T., **Singh R.K.**, Sarkar M. and Bag Sadhan. 2012. Effect of mitotic inducers and retinoic acid blocker on expression of pluripotent genes in ES cells derived from early stage in vitro produced

embryos in buffalo. In Vitro Cellular and Developmental Biology – Animal. DOI 10.1007/s11626-012-9556-2 (Published online).

4. Puri G., Kumar Kuldeep, Singh Renu, **Singh R. K.**, Yashotha T., Ranjan R., Kumar Manish, Das B.C., Singh G., Sarkar M. and Bag Sadhan.2012. Effect of growth factors on establishment and propagation of embryonic stem cells from very early stage IVF embryos and their characterization in buffalo. International Journal of Stem Cells. Vol 5,No. 2 (96-103).
5. Ranjan Ravi, **Singh R.K.**, Yasotha T., Kumar manish, Puri Gopal, Kumar Kuldeep, Singh Renu, Bhure Sanjeev, Malakar D., Bhanja S.K., Sarkar M., Das B.C. and Bag Sadhan 2013. Effect of actin polymerization inhibitor during oocyte maturation on parthenogenetic embryo development and ploidy in *Capra hircus*. Biochem. Genet. DOI 10.1007/s10528-013-9619-4 (Published online).
6. Ranjan Ravi, Das B.C., Sarkar M., Singh Renu, Kumar Kuldeep, **Singh R.K.**, Kumar Manish, Yasotha T., Maurya V.P., Hoque M. and Bag Sadhan 2013. Survivability of parthenogenetic embryos following in vivo transfer in naturally synchronized *Capra hircus*. In Vitro Cell. Dev. Biol. --- Animal. DOI 10.1007/s11626-013-9643-z (Published online).
7. Renu Singh , Kuldeep Kumar, R. Ranjan, Manish Kumar, Yasotha T., **R.K. Singh** , B.C. Das , M. Sarkar, Sadhan Bag 2013. Comparative expression analysis of embryonic development related gene in different stages of parthenogenetic and *in-vitro* fertilized embryos in *caprine*. *Zygote*. dx.doi.org/10.1017/S096719941300049X (Published online).

Attendance/Participation in National Conference/symposia (No.) : 10

Additional responsibilities, if any:

1. Participating Various College Activities
2. Organizing Animal Health Camps
3. Livestock Treatment In-charge, ILFC, SVPUAT
4. Department of Veterinary Medicine, Laboratory In-charge