

# Rupal S. Tewari

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Torino

Italy

## Professional Summary:

A seasoned veterinarian with a strong inclination towards molecular genetics and biomedicine. Proven and outstanding track record of working with state-of-the-art laboratory equipment in the best labs of India and Europe and performing the latest and cutting-edge procedures with discipline and focus. Currently, admitted to the PhD program, 34<sup>th</sup> cycle at the Department of Veterinary Sciences (Physiology), University of Torino, Italy.

## Professional Experience:

**PhD student at the Dept. Of Veterinary Science, University of Torino** (admitted to the PhD program, 34<sup>th</sup> Cycle in October 2018).

### **Veterinary Medical Officer, Department of Animal Husbandry, State Government of UP, India (2015 to 2018)**

- Head of a veterinary medical hospital with a staff of 05 personnel
- Responsible for the running and administration of a polyclinic used for serological testing of samples
- Daily responsibilities include: Medical treatment of farm animals, domestic pets and birds, Plan and supervise the artificial insemination of buffaloes and cows, Handling vetero-legal cases including post-mortem reporting, etc.

### **Junior Research Fellow – Department of Animal Genetics & Breeding, University of Veterinary Science, Jabalpur, MP, IN (2011)**

## Laboratory Skills:

- Skilled in various molecular techniques including: DNA extraction, RNA extraction, Reverse-transcription, Real-time PCR, Western blotting, Cell culture, Production and purification of Digoxigenin (DIG)- labelled RNA by in-vitro transcription, Production of long dsRNA molecules by in vitro transcription, RNA interference (RNAi) by feeding, PCR, Gel Electrophoresis.
- Hands on experience in pathological techniques: Haematological and Serological testing.
- Practical experience including: Analysis of mRNA expression by whole mount in-situ hybridization, Processing of samples for Transmission electron microscopy (TEM) Scanning electron microscopy (SEM), Immunoassays- set up and scoring of comet assay slides for DNA damage evaluation, cytogenic slides scoring (cytome assay) for chromosomal damage evaluation.

## Conferences & Seminars attended:

- **Oral presentation – “International Congress on Domestic Animal Breeding Genetics and Husbandry”** – Prague, Czech Republic (August 2019)
- **VIB conference- “Revolutionizing Next-Generation Sequencing”** – Antwerp, Belgium (March, 2017)
- **Poster presentation at the 9th National Symposium of the Society for Conservation of Domestic Animal Biodiversity (SOCDAB), National Bureau of Animal Genetic Resources** – Pune, MH, India (February, 2014)
- **17th Annual Conference of Indian Association for the Advancement of Veterinary Research & National Symposium on ‘Newer Challenges in Veterinary Research & Education Vis-à-vis Safe Animal, Food & Human Health’** – Jabalpur, MP, India (March, 2013)
- **10th Annual Conference of the Indian Society of Animal Genetics and Breeding and National Symposium on ‘Conventional and New Age Breeding Technology for Livestock Centric Growth and Livelihood Security’** – Chennai, TN, India (November, 2013)

## Trainings:

- **Institute Curie, Paris, France** – ‘Non-coding Genome’ Course (February 2020)
- **University of Angers, France**- Bioinformatics Summer School (July 2018).
- **Università di Pisa, Dept. of Clinical and Experimental Medicine** - ‘From Genes to Cells: A basic course of molecular, cellular and ultrastructural biology’ (July 2017)
- **Short Term Training:** Hi-tech Biotechnology Lab, Ome Research Facility, Department of Animal Biotechnology, College of Veterinary Science & Animal Husbandry, Anand, GJ, India

**Master’s thesis research topic:** Research project: Study of association between ILR-8 and TLR-4 genes polymorphism with healthy, clinical and sub-clinical mastitis in Frieswal cattle using PCR-SSCP method. Major advisor: Dr S.N.S Parmar