

# NITIKA SHARMA

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## CURRICULUM VITAE



**Designation** Scientist, Animal Health Division, CIRG

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## Academic Record

### Educational Qualifications

Examination	Year	University/Institute	OGPA	Discipline
Bachelor of Veterinary Science and Animal Husbandry (BVSc & AH)	March, 2005	C.V.Sc Khanapara, Guwahati, Assam Agricultural University	7.93	Veterinary Science
Master of Veterinary Science (M.V.Sc.)	August, 2007	Indian Veterinary Research Institute, Izatnagar, U.P-243122, INDIA	8.69	Veterinary Medicine
Ph.D	Dec, 2010	Indian Veterinary Research Institute, Izatnagar, U.P-243122, INDIA	8.6	Veterinary Medicine

## **Research Projects -**

1. Metabolic profiling for diagnosis and control of metabolic diseases in goats - **Principal Investigator**
2. Development of alternative therapy for mastitis caused by Staphylococci using lytic bacteriophages - **Co-Investigator**
3. Prevalence of caprine cryptosporidiosis and toxoplasmosis- **Co-Investigator** (completed)
4. All India Coordinated Research Project on Goat Improvement. – Barbari Unit- **Co-Investigator**

## **Research Experience**

### **Master's Research**

- **Title of MVSc Thesis : “Management of Bovine Mastitis by *Aloe vera* *Phyllanthus emblica* and Vitamin E”**

The thesis work involved study of the epidemiology of bovine mastitis. Evaluation of *Aloe vera* teat dip on CMT-point score Somatic Cell Count (SCC) of milk. Evaluation of therapeutic efficacy, anti-inflammatory and antioxidant potential of *Phyllanthus emblica* with Vitamin E against bovine Staphylococcal mastitis.

### **Ph.D Research**

- **Title of PhD Thesis : “Evaluation of mammary gland immunity in response to autogenous *Staphylococcus aureus* bacterin in mice with special reference to prevention of mastitis”**

The research work involved preparation of autogenous *Staphylococcus aureus* bacterin and evaluation of its immunotherapeutic potential in Mouse Model Mastitis. Apoptosis of peripheral leucocytes, lysosomal enzyme, collagen repair in mammary tissue and expression of Gamma and Delta T cells were evaluated in response to bacterin therapy.

### **Special Problem**

- Effect of herbal teat dip on CMT-point score and Somatic Cell Count (SCC) of milk in lactating dairy cows.

## **Awards/Fellowships/ Achievements**

- Overall topper in B.V.Sc & A.H
- Awarded with Merit scholarship during B.V.Sc & A.H (2003-2005).
- Selection in ICAR- JRF examination 2005.

- Awarded with IVRI Merit scholarship during M.V.Sc (2005-2007).
- Awarded with IVRI Merit scholarship during Ph D (2007-2010).
- Qualified ICAR-National Eligibility Test (NET) in the year 2009.
- First rank in ARS 2009 examination in the discipline of Veterinary Medicine.

### Membership of Professional Societies

- Indian Society of Veterinary Medicine (ISVM)
- Uttar-Pradesh Veterinary Council.
- Indian Society for Sheep and Goat Production and Utilization (ISSGPU)

### Trainings attended

- NAIP sponsored Training Course on “Advances in nutrient use in efficiency in livestock production system” organised at C.I.R.G, Makhdoom, Mathura from January 28 to February 10, 2012.
- Researcher’s Training on Analysis of Animal Science data using SAS under NAIP on “ **Strengthening Statistical computing for NARS** conducted by IVRI at CIRG, Makhdoom, 9-14<sup>th</sup> , January, 2012

### Research Papers Published/ Communicated

- **Nitika Sharma**, Mukherjee, R., Ingale, S.L. and Jadhav, R.K. (2010). Therapeutic and anti-oxidant activity of vitamin E and selenium in bovine staphylococcal mastitis. *Indian Journal of Veterinary Research*. 19(1):25-31
- **Nitika Sharma**, Mukherjee, R., Ingale, S.L. and Jadhav, R.K. (2010). Effect of *Phyllanthus emblica* on ceruloplasmin in bovine Staphylococcal mastitis. *Indian Journal of Veterinary Research*. 19(1):19-24.
- N. Shivsharanappa, G.B. Manjunatha Reddy, **Nitika Shrama** and V.K. Gupta. (2011). Parasitic encephalitis caused by larvae of *Oetrus ovis* in Sirohi goat. *Indian J. Vet. Pathol.*, 35(2): 204-205.
- Ingale, S.L., Singh, P., Verma, A.K., Mehra, U.R. and **Nitika Sharma**. (2012). Effect of plane of nutrition on IL-4 and IL-10 expression of *Fasciola gigantica* infected calves as determined by real-time PCR. *Indian Journal of Veterinary Research*. 19(1):25-31
- Nitika Sharma, Reena Mukherjee and Anil Kumar Mishra. (2012). Assessment of therapeutic potential of autogenous Staphylococcus aureus bacterin plus Vitamin E and Selenium in mouse model mastitis. Indian Veterinary Journal (Accepted for publication in May 2013)

- **Nitika Sharma**, Mukherjee, R. and Jadhav, R.K. (2009). Therapeutic and anti-inflammatory activity of vitamin E and selenium in bovine staphylococcal mastitis. ANA World Conference 2009 (*Short communication*)

### Popular articles:

- Mukherjee, Reena and **Nitika Sharma**. (2011). Prevention and treatment of bovine mastitis with non-conventional therapeutic agents. *The Indian Journal of Field Veterinarians*, 6, 4 (April-June): 69-70.
- Reena Mukherjee and **Nitika Sharma**. (2011). Development of non antibiotic and preventive measures against bovine mastitis. *Livestock International*, Vol 15, Issue 1:6.
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- Jadhav, R.K., Mukherjee, R. and **Nitika Sharma**. (2010). Leukocyte adhesion molecules : role in bovine mastitis. *Pashudhan*, December issue page No. 7. (**published**).

### Abstracts/ Compendiums/ Chapters Published

- **Nitika Sharma** and Reena Mukherjee (2009). Management of bovine mastitis by *Phyllanthus emblica* and Vitamin E. Poster presented in National Seminar on “Efficiency of extension for sustainable agriculture and livestock production organised by Indian Society of Extension Education (ISEE) at IVRI, Izatnagar.  
**AWARDED SECOND PRIZE FOR POSTER PRESENTATION**
- **Nitika Sharma** and Reena Mukherjee (2009). Comparative efficacy of herbal and glutaraldehyde based teat dip on the prevalence of bovine mastitis. Abstract presented presented in National Seminar on “Efficiency of extension for sustainable agriculture and livestock production organised by Indian Society of Extension Education (ISEE) at IVRI, Izatnagar.
- **Nitika Sharma** and Reena Mukherjee (2009). Respiratory burst activity of the peripheral leukocytes against bovine Streptococcal mastitis in response to *Azadirachta indica*. Abstract presented presented in National Seminar on “Efficiency of extension for sustainable agriculture and livestock production organised by Indian Society of Extension Education (ISEE) at IVRI, Izatnagar.
- Rabindra Jadhav, Reena Mukherjee and **Nitika Sharma** (2010). Expression of leukocyte adhesion molecule in response to nisin and vitamin C therapy against bovine mastitis. Abstract presented in National Symposium and 28 th ISVM Convention at Hyderabad from 17th to 19th February, 2010.
- **Nitika Sharma**, Reena Mukherjee, N. Shivsharanappa and Ashish Srivastava. (2012). *Sarcocystis muris* – a rare and incidental finding in laboratory mice. Abstract presented in XXII National Congress of Veterinary Parasitology NCVP on “Integrated research approaches in Veterinary Parasitology from basic to molecular techniques” held at Mathura, from 15-17th, Mar 2012. Page 108

- Nitika Sharma and Reena Mukherjee. (2012). Anti-inflammatory and therapeutic potential of *Phyllanthus emblica* against bovine sub-clinical mastitis. Abstract presented in 30 th ISVM “National Symposium on Animal Health vis-à-vis Animal Welfare with Application of Biotechnology with Special Reference to North-Eastern Region” held at Aizawl, February 1-3, 2012.
- Priyanka Raj, Ashok Kumar and **Nitika Sharma**. (2012). Free radical Scavenging activity and phytochemical screening of some medicinal plants. Abstract presented in 30 th ISVM “National Symposium on Animal Health vis-à-vis Animal Welfare with Application of Biotechnology with Special Reference to North-Eastern Region” held at Aizawl, February 1-3, 2012.
- Priyanka Raj, Jyoti Pathak, Ashok Kumar and **Nitika Sharma**. (2012). Phytochemical screening and antioxidant potential of methanolic extract of *Annona squamosa*, *Citrus media* and *Prunus persica*. Abstract presented in “Cultivation, conservation and sustainable utilization of medicinal and herbal plants” held at RBS College, Agra from 25-26 February, 2012.
- **Nitika Sharma**, Ashok Kumar, Ravindra Kumar, Sharma DK, Paul Souvik, Vinay Chaturvedi, Pawaiya RVS, Mishra AK and Shivasharanappa N. 2012. HAEMATOLOGICAL AND BIOCHEMICAL PARAMETERS IN PERIPARTURENT GOATS. In the compendium of National Seminar on “Future challenges and opportunities to improve health and production of small ruminants” and Annual Conference of Indian Society for Sheep and Goat Production and Utilization (ISSGPU) held at Central Institute for Research on Goats, Makhdoom, Mathura, U.P., during Dec. 22-23, 2012. Abst. RDHM-C39, pp. 170.
- **Nitika Sharma**, Shivasharanappa N, Mishra AK, Vinay Chaturvedi, Pawaiya RVS, Sharma DK, Gupta VK, Ashok Kumar, Paul Souvik, Naveen Kumar and Singh SV. 2012. ABNORMAL NEUROLOGICAL SIGNS IN *OESTROUS OVIS* INFECTION IN GOAT. In the compendium of National Seminar on “Future challenges and opportunities to improve health and production of small ruminants” and Annual Conference of Indian Society for Sheep and Goat Production and Utilization (ISSGPU) held at Central Institute for Research on Goats, Makhdoom, Mathura, U.P., during Dec. 22-23, 2012. Abst. RDHM-C21, pp. 160.

### **Books/ Book Chapters**

- Ashok Kumar and **Nitika Sharma**. (2012). Approaches for nutritional management of metabolic diseases in animals. Training Course on “Advances in nutrient use in efficiency in livestock production system” organised at C.I.R.G, Makhdoom, Mathura from January 28 to February 10, 2012.
- Swarup, D and **Nitika Sharma**. (2010). Current approaches and strategies for treatment and control of Bovine mastitis. Sovenir cum Compendium of State level seminar on “Control of Bovine Mastitis” organised by Dudhsagar Dairy in January, 2010.