

Brief Biodata

Name	:	Dr Naimi Chand	
Designation	:	Principal Scientist	
Discipline	:	Veterinary Medicine	
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★ **Education qualifications** (*Graduation on wards*)

Degree	Subject (s)	Institute
BVSc & AH	Veterinary Science and Animal Husbandry	GBPUA&T, Pantnagar
MVSc	Veterinary Medicine	IVRI, Izatnagar
Ph D	Veterinary Medicine	IVRI, Izatnagar
PGDMM	Marketing Management	IGNOU, New Delhi

Area of research

- ✚ Area of my research interest includes herbal therapy for mastitis in dairy cattle, mineral deficiency diseases, gastrointestinal diseases, production diseases in ruminants and heavy metal pollution and semen biology in cattle.

❖ **Fellowships/Awards etc. (Not more than five)**

1.	ISVM Appreciation Award (2002) for outstanding contribution to Indian Society for Veterinary Medicine.
2.	Best Clinical Article Award (2009) of Indian Society for Veterinary Medicine for paper published in Indian Journal of Veterinary Medicine.
3.	Best Oral Presentation Awards (2011, 2012, 2013, 2017, 2019) in Annual convention and National Symposium of Indian Society for Veterinary Medicine.
4.	Intas Best Paper Award (2013) for the article “Abducent nerve palsy in a buffalo (<i>Bubalus bubalis</i>)” published in Intas Polivet vol.13 (1):52-53.
5.	Reviewer Excellence award (2016) by ARCC for acting as potential reviewer for the ARCC journals.

❖ **Patent / Technologies / Methodologies / System etc. (Not more than five) :**

1.	Developed methodology for induction of clinical zinc deficiency in goats and devised biochemical marker for early diagnosis of zinc deficiency in animals and evaluated effective therapeutic measures for zinc deficient animals.
2.	Developed colostrum feeding schedule for new born calves to minimize the incidence of colibacillotic diarrhea and evaluated parenteral and oral fluid therapies for treatment of metabolic acidosis in diarrheic calves.
3.	Developed homeopathic treatment methodology consisting Kalium Iodatum, Sulphur and Calendula as alternative treatment for clinical management of FMD in cattle.
4.	Studied antibiogram of bacteria isolated from frozen semen of Frieswal bulls and evaluated antibiotic combination for control of bacterial load and improvement of semen quality
5.	Contributed in development of Frieswal’ cattle strain, Milking Pail and vessel set, Dung Cake Maker, Boviplacenta Clear Device and Official Logo of ICAR-CIRC.

❖ **Selected Publications: (Max. 20)**

1.	N. Chand and N.N. Pandey (2003). Clinico-biochemical profile of induced primary zinc deficiency in goats. <i>Indian Journal of Animal Sciences</i> . 73(7): 736-39.
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2.	N. Chand , N.N. Pandey and A.K. Verma (2005). Therapeutic efficacy of oral zinc sulphate with and without parenteral vitamin A in induced zinc deficiency in goats. <i>Indian Journal of Animal Sciences</i> . 75(3): 274-75.
3.	N. Chand , N.N. Pandey and D.B. Mondal (2009). Effect of timing and frequency of colostrum feeding on immunoglobulinG status and susceptibility to colibacillotic diarrhoea in neonatal calves. <i>Indian Journal of Animal Sciences</i> . 79(7):653-657.
4.	N. Chand , AS Sirohi, S Tyagi, A. Sharma, Suresh Kumar and T. V. Raja (2017). Comparative therapeutic efficacy of homeopathic and allopathic treatment against Foot and Mouth Disease in Cattle. <i>Indian Journal of Animal Research</i> 52 (6): 898-902.
5.	N. Chand , S. Tyagi, R. Prasad, D. Dutta, A. S. Sirohi A. Sharma and R. Tyagi (2018) Status of toxic heavy metals in seminal plasma and their effect on oxidative markers and semen quality parameters in HF crossbred breed bulls. <i>Indian Journal of Animal Sciences</i> 89(6): 632–636
6.	N. Chand , Harkirat Singh and Ashwani Kumar (2016) Successful therapeutic management of Pigeon (<i>Columba livia domestica</i>) malaria with Chloroquine. <i>Indian Journal of Animal Research</i> ; 52(2): 326-327.
7	N. Chand , P. S. Dhaliwal and S. K. Uppal (2017). Therapeutic management of blood transfusion reaction in a crossbred cow. <i>Indian Journal of Animal Research</i> 51(2):398-400.
8	N Chand , M Pande, S Tyagi A S Sirohi, S Mahajan, S Kumar, Sarika and A Sharma (2022) Antibioqram of microorganisms isolated from fresh and frozen semen of crossbred Frieswal bulls. <i>CryoLetters</i> 43 (6), 322 – 327.
9	N. Chand , S. Tyagi, A.S. Sirohi, N.V. Patil, A. Sharma and Sarika (2021) Effect of vitamin E and Selenium supplementation on oxidative markers and semen quality parameters in breeding bulls. <i>Indian Journal of Animal Sciences</i> 91 (10): 826–829.
10	R Singh, S N S Randhawa, C S Randhawa, S Chhabra and N Chand (2020) Studies on Biomarkers of Hepatic Lipidosis in Transition Cows with Special Reference to Liver Ultrasonograhya, Liver Specific Enzymes and Acute Phase Proteins. <i>Indian Journal of Animal Research</i> 10.18805/ijar.
11	S Kumar, R Alex, G K Gaur, S S Mukherjee, D K Mandal, U Singh, S Tyagi, A Kumar, A K Das, R Deb, M Kumar, A S Sirohi, N Chand , R Prasad, V Bhasin, B Prakash and S Kashyap(2018) Evolution of Frieswal cattle: A crossbred dairy animal of India. <i>Indian Journal of Animal Sciences</i> 88 (3): 265–275.
12	S. Hussain , R. Alex , R. R. Alyethodi, S Sharma, N. Verma, AS Sirohi, U Singh, S. Kumar, N. Chand , GS Sengar, A Sharma, R Tyagi, S Arya and S Tyagi (2021). Development of a RAPD marker-based classification criterion for quality semen production in Holstein crossbred bulls. <i>Reproduction in Domestic Animals</i> . 21;56:736–743.
13	M Pande, S Tyagi, S Kumar, Y K Soni, N Chand , AS Sirohi, Sarika, I Devi and S Mahajan (2022). Effects of unconjugated gold, silver and titanium dioxide nanoparticles on bovine spermatozoa at various stages of cryopreservation. <i>CryoLetters</i> 43(3), 150 – 157.
14	M Pande, S. K. Ghosh, S. Tyagi, R. Katiyar, S. Kumar, N. Srivastava, A. S. Sirohi, Sarika, N. Chand , S. K. Dhara, S. K. Bhure, and S. Mahajan (2024) Novel Antioxidant Humanin Analogue Restores Bull Semen Cryosurvivability. <i>Andrologia</i> Volume 2024(3): 1-14.
15	M. Pande, S. Kumar, S. Tyagi, A. S. Sirohi, N. Chand , Y. K. Soni, S. Mahajan, S. Saha, A. Sharma, Sarika, J. S. Rajoriya, Anjali, A. K. Mohanty (2024) Endogenous Tissue Inhibitor of Metalloproteinase-2 Levels Are Associated With High-Quality Neat Semen but Unrelated to Sperm Cryoresistance in Bulls. <i>Reproduction in Domestic Animals</i> , 2024; 59:e14741
16	N Chand M Pande, S. Tyagi, A S Sirohi, S Kumar, S Mahajan, S Saha, Sarika and A Sharma (2025) Comparative Efficacy of Antibiotics in Semen Dilutors on Bacterial Load and Sperm Quality in Cryopreserved Frieswal Bull Semen. <i>Journal of Animal Research</i> ,15(01): 01-06.
17	S. Mahajan, M Pande, N Chand , Anjali, A S Sirohi, Suresh Kumar, S Saha, Amit Kumar, AK Mohanty and A. Mitra(2025) Oxidative stress, serum metabolites and inflammatory cytokine changes associated with Lumpy Skin Disease in cattle. <i>BMC Veterinary Research</i> 21:696.

18	A. Singh, V. Thakur, T. K. Sarkar, S. Rawat, M.V. Jithin, D. Roy, A. K. Verma, A. Singh, V.K. Varun, A.V.S. Sirohi, N. Chand , S. Kumar, S. Mahajan (2025). Hematological and serum biochemical profile of sahiwal dairy cows during transitional period. <i>AMA, Agricultural Mechanization in Asia, Africa and Latin America</i> 56(8):21125-37.
19	Kumar S, Pande M, Saha S, Chand N , Prasad N, Arya S, Mahajan S, Singh U, Dubey SK, and Mohanty AK (2025) Augmented-OvSynch enhances estrus resumption, luteal function, and conception rates in postpartum Zebu crossbred cows under tropical smallholder systems. <i>Veterinary World</i> , 18(12):4105-4116.
20	N Singh, A. Patel, S Kumar, M. Pande, V Singh, N. Chand , A.S. Sirohi, S Mahajan, Sarika, C Rani(2026) Effect of Ashwagandha (<i>Withania somnifera</i>) supplementation on oxidative stress and freezability of breeding bull semen. <i>Indian Journal of Animal Sciences</i> vol 95(12).
❖ On-going research projects	
1	Therapeutic evaluation of selected medicinal herbs in subclinical mastitis in dairy cattle-PI
2	Evaluation of Herbo-Mineral Supplementation for Amelioration of Immuno-metabolic and Oxidative Stress in Transitional Cow-Co-PI
3	Utilization of paddy straw as complete fodder block by treating with Gomutra (Indigenous cow urine)- Co-PI- DST funded project
4	Livelihood improvement through sustainable dairy farming using suitable interventions (Farmer FIRST Programme)- Co-PI
❖ Research Scholar	
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