

Brief Biodata

Name	:	Dr. Sonam Dwivedi	
Designation	:	Scientist	
Discipline	:	Livestock Production & Management	
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★ **Education qualification** *(Graduation on wards)*

Degree	Subject (s)	Institute
BVSc	Veterinary & animal science	NDVSU, Jabalpur (Madhya Pradesh)
MVSc	Livestock Production & Management	NDRI, Karnal (Haryana)
PhD	Livestock Production & Management	IVRI, Bareilly (Uttar Pradesh)

❖ **Area of research**

- ✚ Animal Reproduction and Reproductive Biotechnology
- ✚ Semen Cryopreservation and Assisted Reproductive Technologies
- ✚ Reproductive Biomarkers and Endocrinology
- ✚ Precision Livestock Farming and Machine Learning Applications
- ✚ Livestock Production and Management

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

1.	Institutional Fellowship, MVSc
2.	Institutional Fellowship, PhD

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

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

1.	Serum kisspeptin: New possible biomarker for sexual behaviour and sperm concentration in buffalo bulls
2.	Determining Point of Economic Cattle Milk Production through Machine Learning and Evolutionary Algorithm for Enhancing Food Security
3.	Sodium alginate protects sperm from capacitation- like changes during cryopreservation
4.	<u>Serum and seminal plasma IGF-1 in relation with seminal attributes and effect of IGF-1 fortification on semen freezability in buffalo bulls</u>
5.	Serum and seminal plasma IGF-1 associations with semen variables and effect of IGF-1 supplementation on semen freezing capacity in buffalo bulls
6.	Sodium alginate potentiates antioxidants, cryoprotection and antibacterial activities of egg yolk extender during semen cryopreservation in buffalo
7.	Phylogenetic analysis of rabies virus strain of camel origin revealed cosmopolitan cluster in India

8.	Therapeutic effect of goat milk and its value-addition: Current status and way forward
★	<u>Full list of Publications (in PDF)</u>
❖	On-going research projects
	Nil
❖	Research Scholar
	Nil

Sl. No.	Author/Authors	Year	Title of paper/Book or Book chapter	Journal or Book	NAAS Journal Code & rating if any
1.	<u>Sonam Bhardwaj, Pradeep Kumar, Andonissamy Jerome, Suman Ravesh, Chandrashekhar Patil, Pawan Singh, Puran Chand Lailier</u>	September 2020 55:1190-1201 DOI: 10.1111/rd.13761	Serum kisspeptin: New possible biomarker for sexual behaviour and sperm concentration in buffalo bulls	<u>Reproduction in Domestic Animals</u>	7.64
2.	Sonam Bhardwaj, Ayon Tarafdar, Manoj Baghel, Triveni Dutt, Gyanendra Kumar Gaur	2022	Determining Point Of Economic Cattle Milk Production Through Machine Learning And Evolutionary Algorithm For Enhancing Food Security	Journal Of Food Quality	9.3
3.	Sonam Bhardwaj, Triveni Dutt, Amit Kumar, SK Ghosh, Shashikant Gupta, Vikash Bhardwaj, Amala Jackson, Mukesh Singh and Neeraj Srivastava	2023	Assessment of FMD vaccination on semen quality parameters in Vrindavani bulls	The Pharma Innovation Journal	5.31
4.	<u>Pradeep Kumar¹, Shikha Pawaria², Jasmer Dalal³, Suman Ravesh², Sonam Bhardwaj⁴, A Jerome², Dharmendra Kumar⁴, Mustafa H Jan⁴, P S Yadav²</u>	2019 Oct; 209: 106166. https://doi.org/10.1016/j.anireprosci.2019.106166	Sodium Alginate Potentiates Antioxidants, Cryoprotection And Antibacterial Activities Of Egg Yolk Extender During Semen	Anim Reprod Sci	7.66
5.	<u>Pradeep Kumar¹, Suman², Shikha Pawaria², Jasmer Dalal³, Sonam Bhardwaj⁴, S Patil³, A Jerome², R K Sharma⁴</u>	2019 May; 204: 101-110. Doi: 10.1016/j.anireprosci.2019.03.010 . Epub 2019 Mar 20.	Serum And Seminal Plasma IGF-1 Associations With Semen Variables And Effect Of IGF-1 Supplementation On Semen Freezing Capacity In Buffalo Bulls	Anim Reprod Sci	7.66
6.	R. N. Patel, P. C. Lailier, Vipin, P. K. Soni, K. Kumar, S. Bhardwaj	Page 79-88 DOI: 10.9734/CJAST/2020/V39i3631075 Published: 1 December 2020	Effect Of Dietary Cation-Anion Difference On Milk Composition And Blood Mineral Status Of Peripartum Buffaloes	<i>Current Journal Of Applied Science And Technology</i>	4.71
7.	Ragini Mishra, Vishal Chander, Sukdeb Nandi, Gaurav Kumar Sharma, Sonalika Mahajan, Karam Pal Singh, Sushmita Nautiyal And Sonam Bhardwaj	2023; 12(1): 945-949	Phylogenetic Analysis Of Rabies Virus Strain Of Camel Origin Revealed Cosmopolitan Cluster In India	The Pharma Innovation Journal	5.31
8.	Rajneesh Thakur ^{1,2} · Prachurya Biswall ^{1,2} · T. P. Sari ³ · Deepak Kumar ⁴ · Narashans Alok Sagar ⁵ · Sonam Bhardwaj ¹ · Hari Om Pandey ¹ ·	January 2024	<u>Therapeutic effect of goat milk and its value-addition: Current status and way forward</u>	<u>Journal of Food Science and Technology</u>	9.10