

## **Bio-data**



1. **Name Designation** : Dr Brijesh Yadav, Professor, Veterinary Physiology

2. **Date of Birth** : 1<sup>st</sup> August 1981

3. **Present place of posting:**

Department of Veterinary Physiology, College of Veterinary Science and Animal Husbandry, DUVASU, Mathura

Residential Address- B-6, University New Campus, DUVASU, Mathura

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4. **Academic qualifications**

S. No.	Degree	Subject	Year of Passing	Institute/ University	O.G.P.A Percentage
1.	BVSc and AH	Vet. Science	2005	ANGRAU, Hyderabad	7.57/10
2.	MVSc with JRF	Vet. Physiology	2007	GBPUAT, Pantnagar	8.380/10
3	Ph.D. with SRF	Vet. Physiology	2012	IVRI, Bareilly, UP	8.287/10
4	Post Doctoral Training	Rumen Metagenomics	2023	University of Pennsylvania, USA	---

5. **Employment record**

Designation	Pay Scale/ Pay Band	Organization	Period	
			From	To
Assistant Professor	17600-39100 +6000	DUVASU	20/12/2008	19/12/2012
Assistant Professor	17600-39100 +7000	DUVASU	20/12/2012	19/12/2017
Assistant Professor	17600-39100 +8000	DUVASU	20/12/2017	19/12/2020
Associate Professor	Pay Band 4	DUVASU	20/12/2020	20/12/2023
Professor	Pay Band 4	DUVASU	21/12/2023	Till now

6. **Teaching**

Involved in teaching of BVSc and AH, MVSc, PhD (Veterinary Science), MSc, PhD (Biotechnology) and course advisor for different BSc (Biotechnology) courses

Guided four PG students and acted as Member, Advisory Committee for 38 PG students

7. **Research achievements**

Actively involved as PI, Co-PI in 4 external funded, 9 university funded and one industry funded research projects

The salient research achievements are

- Established thermo-neutral zone in zebu cattle
- Established the threshold temperature humidity index for goat, cattle and buffalo
- Determined of suitable THI model for goats and cattle in semi-arid region
- Established the role of miRNA in regulation of adaptation in buffaloes

- e. Reported the changes in microbiome, fermentation pattern and digestibility in heat stressed buffaloes
- f. Established the dynamics of physio-biochemical, hormonal changes and pattern of digestibility and methane emission during different temperature exposures in crossbred cattle
- g. Reported the comparative adaptability of goat and cattle breeds in semi-arid region
- h. Established the effective cooling strategies in cattle and buffalo during summer in semi-arid region
- i. Reported the positive effect of dietary supplementation of micro minerals for augmentation of semen quality in goats
- j. Reported the augmentation of post-thaw semen quality by addition of suitable additives
- k. Production of frozen buck semen of different goat breeds and supply to 12 different states
- l. Establishment of Bio-climatology laboratory having facilities of molecular lab (Genomics and Proteomics), climate chamber, calorimetric units, continuous methane emission monitoring unit, infra-red camera and automatic weather station

Bio-climatology lab page <https://upvetuniv.edu.in/bio-climatology-laboratory/>

## 8. Publications

Total Citations	2943
H index	18
i-10 Index	27
Total number of Research Publication	75
Review Papers	3
Training manuals/Compendia	12
Technical/popular article/lead papers	24
Books	6
Google Scholar page <a href="https://scholar.google.com/citations?user=51-IEsYAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=51-IEsYAAAAJ&amp;hl=en</a>	
Research gate page <a href="https://www.researchgate.net/profile/Brijesh-Yadav-14">https://www.researchgate.net/profile/Brijesh-Yadav-14</a>	

## 9. Twelve Best Research papers

- i. Srivastava, A., Yadav, P., Mahajan, A., Anand, M., Yadav, S., Madan, A.K. and **Yadav, B.**, 2021. Appropriate THI model and its threshold for goats in semi-arid regions of India. *Journal of Thermal Biology*, p.102845. Impact Factor-2.7
- ii. Yadav, P., **Yadav, B.**, Swain, D.K., Anand, M., Yadav, S. and Madan, A.K., 2021. Differential expression of miRNAs and related mRNAs during heat stress in buffalo heifers. *Journal of Thermal Biology*, p.102904. Impact Factor-2.7.
- iii. **Yadav, B.**, Pandey, V., Yadav, S., Singh, Y., Kumar, V. and Sirohi, R. (2016). Effect of misting and wallowing cooling systems on milk yield, blood and physiological variables during heat stress in lactating Murrah buffalo. *Journal of Animal Science and Technology*, 58(1), 1. Impact Factor- 2.326
- iv. **Yadav, B.** Singh, G., Wankar, A. K., Dutta N., Chaturvedi, V.B. and Verma M. R. (2016). Effect of Simulated Heat Stress on Digestibility, Methane Emission and Metabolic Adaptability in Crossbred cattle. *Asian Australasian Journal of Animal Science* 29(11) 1585-92. Impact Factor-2.694.

- v. Kushawaha, B., Yadav, R.S., Swain, D.K., Kumari, P., Kumar, A., **Yadav, B.**, Anand, M., Yadav, S., Singh, D. and Garg, S.K., Collapsed mitochondrial cristae in goat spermatozoa due to mercury result in lethality and compromised motility along with altered kinematic patterns. *Scientific Reports*, 11(1), pp.646-646. Impact Factor-4.997
- vi. Kumar, A., **Yadav, B.**, Swain, D.K., Madan, A.K., Yadav, R.K.S., Kushawaha, B., and Yadav, S. 2020. Dynamics of HSPA1A and redox status in the spermatozoa and fluid from different segments of goat epididymis. *Cell Stress and Chaperon*, 1-9. Impact Factor- 3.827
- vii. Kritaniya, D., Yadav, S., Swain, D.K., Reddy, A.V., Dhariya, R., **Yadav, B.**, Anand, M. and Nigam, R., 2020. Freezing-thawing induces deprotamination, cryocapacitation-associated changes; DNA fragmentation; and reduced progesterone sensitivity in buck spermatozoa. *Animal Reproduction Science*, 223, p.106628 Impact Factor-2.22.
- viii. Reddy, V.S., **Yadav, B.**, Yadav, C.L., Anand, M., Swain, D.K., Kumar, D., Kritania, D., Madan, A.K., Kumar, J. and Yadav, S., 2018. Effect of sericin supplementation on heat shock protein 70 (HSP70) expression, redox status and post thaw semen quality in goat. *Cryobiology*, 84, 33-39. Impact Factor- 2.728
- ix. Mishra, A.K., Kumar, A., Yadav, S., Anand, M., **Yadav, B.**, Nigam, R., Garg, S.K. and Swain, D.K., 2019. Functional insights into voltage gated proton channel (Hv1) in bull spermatozoa. *Theriogenology*. 136, 118-130. Impact Factor- 2.8
- x. Ram, P.K., Singh, S.K., Srivastava, A., Kumar, G., Jaiswal, A.K., **Yadav, B.** and Garg, S.K., 2020. Effects of Injectable Trace Minerals (ITMs) on Th1/Th2 Cytokine Balance of Newborn Calves with Tropical Theileriosis. *Biological trace element research*, pp.1-8. Impact Factor- 4.081.
- xi. Mahajan, A., Sharma, P., Mishra, A.K., Gupta, S., Yadav, S., Anand, M., Yadav, B., Madan, A.K. and Swain, D.K., 2022. Interplay mechanisms between progesterone and endocannabinoid receptors in regulating bull sperm capacitation and acrosome reaction. *Journal of Cellular Physiology*, 237(7), 2888-2912. Impact Factor- 6.513.
- xii. Yadav, B.K., Singh, S.K., Nakade, U.P., Singh, V.K., Sharma, A., Srivastava, M., **Yadav, B.**, Singh, Y., Sirohi, R. and Garg, S.K., 2016. Ameliorative Potential of Prepartal Trace Mineral and Vitamin Supplementation on Parturition-Induced Redox Balance and Myeloperoxidase Activity of Periparturient Sahiwal Cows. *Biological Trace Element Research*, pp.1-8. Impact Factor- 4.081.

## 10. Extension Activities

Training given (Expert Lecture)	32
Training organized	60
Participation in training	6
Clinical/Extension/FertilityCamps	6
Attended	
Conference attended	38
Radio talk	2
Lectures delivered as expert in summer school	15
TV Talk	1

## 11. Membership of Professional Organization/ Societies:

Society of Animal Physiologists of India (SAPI), India  
Member of UP veterinary council  
Indian Academy of Veterinary Nutrition and Animal Welfare- Life Member  
International Society of Biometeorology  
Animal Physiologists Association  
Indian Society For Buffalo Development  
Indian Society for Sheep and Goat Production and Utilization  
National Environmental Science Academy  
Indian Veterinary Association, New Delhi  
National Academy of Veterinary Science, New Delhi  
National Academy of Dairy Science, India

## 12. Reviewer in Peer Reviewed Journals

Indian Journal of Animal Sciences  
Journal of Advanced Veterinary Research  
Cytotechnology  
Indian Journal of Dairy Science  
Journal of Animal Research  
Journal of Applied Animal Research  
Journal of Animal Nutrition and Animal Physiology  
Theriogenology  
Animal Biology  
Veterinary Record  
International Journal of Biometeorology  
Asian Research journal of Gynaecology and Obstetrics  
Canadian Journal of Animal Science  
Journal of Animal Science and Biotechnology  
Asian Pacific journal of Reproduction  
Journal of Taibah University Medical Sciences  
Animals  
Andrologia

## 13. Administrative Assignments

1. Chief Personal Officer, DUVASU, Mathura, 15 March 2024 onwards
2. Officer on Special Duty, College of Dairy Science, DUVASU, Mathura 6<sup>th</sup> Jan 2024
3. Coordinator, Internal Quality Assurance cell, July 2022 onwards
4. Chairman, NAAC, Learning and Evaluation Committee, July 2022 onwards
5. Member, University Examination Committee 2021 onwards till now
6. Member, University Admission Committee, 2023 onwards till now
7. Member, University Teaching-Learning and Evaluation Committee 2021 onwards
8. Working as **Hostel Warden** of Malviya Kshatrawas since July 1, 2019 till Jan 2023
9. Member, University Examination Committee (2014-2016 as deputy Registrar)
10. Member, University Admission Committee (2014 onwards as Deputy Registrar)
11. Working as **Deputy Registrar** from 25th June, 2014
12. Working as **Convener, Institutional Animal Ethics Committee**, DUVASU, Mathura form September 2012.
13. Working as **In-charge** Bio-climatology lab since August 2019.
14. Worked as **Class in-charge** of 2<sup>nd</sup> BVSc and AH from September 2012 to September 2015.
15. Worked as **Assistant Incharge Student Welfare**, DUVASU, Mathura form November 2012 to April 2015.
16. Worked as **Public Information Officer** May, 2014 to November 2014.
17. Worked as university **Transport Officer** from March 2010 to December 2010
18. Worked as **Hostel Warden** of Gautam hostel from May 2012 to January, 2013

#### 14. Awards and achievements

S. No.	Item of Recognition/ Award	Year	Awarding organization
1	Expert for Preparing Atlas of Climate Adaptation in South Asian Agriculture	2024	Borlaug Institute for South Asia
2	Fellow Award	2024	National Academy of Dairy Science
3	Best Teacher Award	2024	Veterinary University, DUVASU, Mathura
4	Eminent Scientists of the year Award	2023	National Academy of Environmental Science, New Delhi
5	Membership of National Academy of Veterinary Science	2023	National Academy of Veterinary Science
6	Kanwar Virendra Singh Memorial All India Best Publication Award	2022	Society for Advancement of Human and Nature
7	Scientists of the year Award	2022	National Academy of Environmental Science, New Delhi
8	Panelist in the Brainstorming Session on "Host-microbiome interaction in augmenting productivity of ruminants"	2022	DUVASU, Mathura
9	Panelist in the Brainstorming Session on "Feeding Strategies in Ruminants for Healthy Milk and Green Environment"	2022	DUVASU, Mathura
10	Panelist in the National Dialogue on Semen Biology For enhancing fertility	2022	DUVASU, Mathura
11	Panelist in the Brainstorming under the aegis of on Milk vs Plant based dairy Analogues	2022	National Academy of Agricultural Sciences
12	Dr DN Mullick Award,	2022	Society of Animal Physiologists of India
13	CCSEA Nominee	2021	Government of India
14	Executive Member	2021	Indian Society for Buffalo Development
15	Secretary, North Zone	2021	Animal Physiologists Association
16	Best Paper Award	2021	Society of Veterinary Biochemists and Biotechnologists of India
17	Appreciation Award	2021	Society of Veterinary Biochemists and Biotechnologists of India
18	Appreciation award by Hon'ble Vice-Chancellor	2020	DUVASU, Mathura
19	Research paper with highest impact award	2019	Animal Physiologists Association
20	Young Scientist Award	2013	Society of Animal Physiologists of India
21	Best Paper/ Poster award	2014	Society of Veterinary Science and Biotechnology
22	Best Poster Award	2016	Indian Poultry Science Association
23	Acted as Rapporteur	2014,16, 18,19	SAPI Conferences
24	European Science Federation (ESF) Travel Award	2008	European Science Federation