

BRIEF RESUME

Dr.A. K. Sharma
Associate Professor & Head
Department of Veterinary Physiology & Biochemistry
College of Veterinary Science & Animal Husbandry
Kamdhenu University, Junagadh (Gujarat)-362001
DOB: 04.10.1975
Email: drarunvet@gmail.com; drarunvet@kamdhenuuni.edu.in
M: +919727743994
Passport No R3697995
Valid up to 28/08/2027



Present position:

Associate Professor & Head, Department of Veterinary Physiology & Biochemistry, COVSAH, Kamdhenu University, Junagadh (Gujarat).

Work Experience: Assistant Professor & Equivalent: 14 Years and 06 Months Associate Professor & Head Equivalent: 28/6/2018 to Continue

- Assistant Professor in the Department of Veterinary Physiology & Biochemistry, VCVSAH, NAU, Navsari Gujarat, India from **27.01.2009 to 27.06.2018**.
- Veterinary Officer in Department of Animal Husbandry, Rajasthan from **01/03/2008 to 24/01/2009**.
- Veterinary Officer in Brooke Hospital for Animals (India) from **01/05/2007 to 29/2/2008**.
- Assistant Professor in the Department of Veterinary Physiology & Biochemistry, Mahatma Gandhi Veterinary College, Bharatpur (Rajasthan), India from **20/12/2005 to 30/04/2007**.
- Assistant Professor in the Halwan Institute, Piloni (Rajasthan), India from **01/07/2005 to 19/12/2005**.
- Assistant Professor in the Department of Medical Physiology, Surendra Dental College, Sriganganagar (Rajasthan), India from **17/12/2003 to 30/06/2005**.
- Assistant Professor (Visiting) in the Department of Veterinary Physiology, Regional Physiotherapy College, Sriganganagar (Rajasthan), India from **01/01/2005 to 30/06/2005**.

Academic Profile:

Degree	Year	University/Institute	Marks (%)	Subject
Ph.D.	2016	NAU, Navsari	81.30	Veterinary Physiology
M.V.Sc.	2004	RAU, Bikaner	77.50	Veterinary Physiology
NET	2004	ASRB, ICAR	Cleared	Veterinary Physiology
B.V.Sc & AH	2001	RAU, Bikaner	70.70	Veterinary & Animal Sciences
CCC+	2010	SPIPA, Surat	Cleared	-----
Gujarati	2021	Gujarat Vidyapeeth, Ahmedabad	Cleared	Gujarati Vinay

Title of PhD Thesis: 2016

- ***In Vitro* Development of Embryonic Stem Cells from Preimplantation Buffalo Embryos and their Immunocytochemistry.**

Title of M.V.Sc Thesis: 2004

- **Effect of Extreme Hot Climate on Liver and Blood Analytes in Marwari Goats**

Professional Certificate:

- Registered Veterinary Practitioner (No. 3097) Under Gujarat State Veterinary Council (GVC).

Research Projects Handled:

As Principal Investigator:

- *In vitro* Embryo Development from Goat Ovaries with Supplementation of Epidermal Growth Factor and α -Tocopherol in Maturation Media (2017-2018).
- *In Vitro* Maturation (IVM) of Oocytes Retrieved from Non Atretic Surface Follicles of Goat Ovaries (2012- 2014).
- To Establish Normal Physiological Norms of Hemogram And Blood Biochemical Profile in Goats of Surti Breed (2010-12).
- Standardization for Primordial Follicles Retrieval and Screening Protocols from Goat Ovaries (2010-12).

As Co- Principal Investigator:

- Oxidative stress profiling in relation to Repeat Breeding in Surti Buffalo (2011-13).
- To study diaphoretic pattern of Surti Buffalo vis-à-vis environmental and body condition (2012-14).
- Surveillance of Bovine milk samples for prevalence of Aflatoxin M1, DDT, Brucella and Mycobacterium spp. (2011- 2014).
- Comparative study of fetal bovine serum and estrus buffalo serum on *in vitro* maturation of oocytes in buffalo (2013-14).
- Establishment of fibroblast culture (2013-17).

Professional/Acedamic Honours/Awards:

- Member of received **Best oral presentation award** for the paper entitled, “**Effect of different temperature humidity indices on thermoregulatory responses of Surti Buffaloes**” on National Symposium & Silver Jubilee Convention of ISAPAM, organized by VCVSAH, Navsari October 09-11, 2014.
- Member of received **Best Poster award** for the paper entitled, “**Effect of feeding of yeast (Saccharomyces Cerevisiae CNCM 1- (077))**” on XVI Annual Conference of ISVPT, organized by VCVSAH, Navsari November 23-25, 2016.

Trainings/ SAPI Quiz Zonal level/ Guest lectures Organized:

- Online Vocational Training entitled, “**Advancements in Physiological Function Tests in Domestic Animals & Pets**” at Department of Veterinary Physiology and Biochemistry, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **March 01-05, 2021. (Organizing Secretary)**
- Online Vocational Training entitled, “**Advance Diagnostic Techniques in Livestock & Pets**” at Department of Veterinary Surgery & Radiology, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **January 04-08, 2021. (Co- Organizing Secretary)**
- Online Guest lecture by **Dr. Varun Ahuja**, Senior Scientist, Drug safety Assessment, Novel Drug Discovery & Development, Lupin LTD., Pune- India entitled, “**Opportunities for Veterinarians in Corporate sector and Abroad**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **November 02, 2020. (Organizing Secretary)**
- Online Guest lecture by **Dr. Vaishali Ahuja**, German Language Trainer/ Translator CRB Tech, Pune (Maharashtra) entitled, “**Introduction of German Language and Its Importance in the Veterinary Profession**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **October 27, 2020. (Organizing Secretary)**
- Online Guest lecture by **Dr. Bharti Jain**, Practicing Advocate and Patent Agent, Noida, Delhi entitled, “**Role of Intellectual Property Rights in Academic & Research Institutions with Specific Focus on Veterinary Sciences**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **October 21, 2020. (Organizing Secretary)**
- Online Vocational Training entitled, “**Immunological Advancements in Male and Female Fertility**” at Department of Veterinary Physiology and Biochemistry in collaboration with Department of Veterinary Gynaecology & Obstetrics, COVSAH, JAU,

Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **September 01-05, 2020. (Co-Organizing Secretary)**

- Online Guest lecture by **Dr. Ninan Jacob**, Professor & Head, Department of Veterinary Physiology, Veterinary College, RIVER, Kurumbapet, Puducherry entitled, “**Effect of Climate on Animal Production**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **May 06, 2020. (Organizing Secretary)**
- Online Guest lecture by **Dr. A. K. Gahlot**, Vice Chancellor, RAJUVAS, Bikaner (Rajasthan) entitled, “**Contribution of Veterinary Science and Animal Husbandry to National Economy and Future Scope of Veterinary Science**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **April 11, 2020. (Organizing Secretary)**
- Online Guest lecture by **Dr. M. L. Madan**, former Vice Chancellor, DHUVASU, Mathura (UP) entitled, “**Endocrine Control of Reproductive Cycle**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **April 10, 2020. (Organizing Secretary)**
- Online Guest lecture by **Dr. Lenin Bhatt**, Senior Veterinary Officer, State Disease Diagnostic Centre, Department of Animal husbandry, Jaipur (Rajasthan) entitled, “**Advance diagnostic techniques & status of important Zoonotic Diseases**” under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **April 09, 2020. (Organizing Secretary)**
- One day **Zonal (West) Level SAPI Veterinary Physiology Quiz-2020 Competition** at College of Veterinary Science & A.H, JAU, Junagadh on **April 30, 2020. (Organizing Secretary)**
- National Training entitled, “**Alternative Scientific Modalities to Improve the Learning Skills in Veterinary Anatomy**” at Department of Veterinary Anatomy, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **January 21-25, 2020. (Co-Organizing Secretary)**
- National Training entitled, “**Latest Advancements in Upstream Reproductive Physiological Techniques**” at Department of Veterinary Physiology and Biochemistry, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi **September 16-18, 2019. (Organizing Secretary).**

Other Responsibilities:

- **Organizing Secretary** of West zone SAPI quiz competition organized by Department of Veterinary Physiology and Biochemistry, COVSAH, JAU, Junagadh (Gujarat) on January 30, 2020.
- **Content Creator** of Units -1 Cardiovascular and Respiratory Physiology of Post graduate syllabi of Veterinary Physiology (**VPY-602**) under ICAR- NAHEP World Bank funded Project (Nine lectures prepared).
- **Content Creator** of Units -2 Cardiovascular and Respiratory Physiology of Post graduate syllabi of Veterinary Physiology (**VPY-602**) under ICAR- NAHEP World Bank funded Project (Five lectures prepared).
- **Unit Reviewer** of one Unit-3 Cardiovascular and Respiratory Physiology of Post graduate syllabi of Veterinary Physiology (**VPY-602**) under ICAR- NAHEP World Bank funded Project (Five lectures reviewed).
- **Nodal officer of GRM** related activities for COVSAH, JAU, Junagadh under ICAR- NAHEP World Bank funded Project.
- **Convener of ICAR** related activities for COVSAH, JAU, Junagadh from September 2018 to March 2021.
- **Convener of ICAR** related activities for COVSAH, KU, Junagadh from April, 2021 to till date.
- **Convener of IDP** related activities for COVSAH, JAU, Junagadh from September 2018 to March 2021.
- **Member in Placement cell**, faculty of Veterinary Sciences & A.H., VCVSAH, NAU, Navsari (Gujarat) from 2010 to June, 2018.
- **Member in AGRESCO Sub-committee.**
- **Co-organizing Secretary in SAPI 2012**, NAU, Navsari
- **Minor guide** of two PhD and two PG students

Publications:

1. Arjun B Odedara, Bhupendra J Thakare, Ramesh J Padodara, Vinay A Kalaria, Vivek K Singh, Amrita A Vasava and **Arun K Sharma (2021). Haemato- biochemical Profile of Haemoprotozoan Infected Cows, Buffaloes and Horses. *The Indian Journal of Veterinary Sciences & Technology* 17 (4):46-48. NAAS-**
2. **Arun Sharma**, Gopal Puri, Vishnu Kharadi and Shailesh Bhavsar. (2018). ***In vitro* production of early stage buffalo (*Bubalus bubalis*) embryos in modified synthetic oviductal fluid (mSOF) medium. *Indian Journal of Animal Sciences* 88(2):176-180. NAAS-6.28.**
3. **AK Sharma**, SS Chaudhary and Gopal Puri. (2017). ***In-vitro* maturation of buffalo oocytes in TCM-199 media supplemented with follicular fluid, hormones and antioxidants. *Ruminant Science* 6(1):13-18. NAAS-5.0**
4. **Arun Sharma**, Sandhya Chaudhary, Gopal Puri (2017). **Recovery of pre antral follicles from goat ovarian cortex through mechanical and enzymatic procedure. *Indian Journal of Small Ruminants* 23(1): 104:107. NAAS- 5.25**
5. **AK Sharma**, G Puri and M Janmeda (2017). **Kisspeptin: Regulatory mechanisms in Reproduction- Mini review. *Indian Journal of Veterinary Research (The)* 26 (2):5-16. NAAS.**
6. Mamta Janmeda, **Arun Sharma** and Jyotishree Bayan (2017). **Selection of Dairy Animals for improved productivity. *Indian farmer* 4 (6): 448-452.**
7. **Arun Sharma**, Sandhya Chaudhary, Gopal Puri, Vishnu Kharadi and Shailesh Bhavsar. (2016). **Retrieval and recovery rate of Buffalo (*Bubalus bubalis*) oocytes through aspiration technique. *Journal of Animal Research* 6(3): 503-507. NAAS- 5.68**
8. Gopal Puri, S. S. Chaudhary, V. K. Singh and **A. K. Sharma** (2015). **Effects of fetal bovine serum and estrus buffalo serum on maturation of buffalo (*Bubalus bubalis*) oocytes *in vitro*. *Veterinary world* 8 (2): 143:146.**
9. **Sharma, A. K. and G. Puri.** (2013). **Consequence of extreme warm environment on hepatic and serum vitamin A and enzymes in Marwari goats. *Indian Journal of Animal Sciences* 83 (10): 1058:1061.**
10. Gopal Puri, **A K Sharma**, B C Das and Sadhan Bag (2013). **Generation of buffalo embryonic stem cell clones on matrigel and fibronectin synthetic matrices and their characterization. *Indian Journal of Animal Sciences* 83(3):258-260.**

11. Sharma, A. K. and G. Puri. (2013). **Effect of extreme hot condition on serum biochemical constituents in Marwari Goats.** *Livestock Research International* 1(1): 23-28.
12. Sharma, A. K. and Kataria, N. (2012). **Influence of season on some serum metabolites of Marwari goats.** *Indian Journal of Small Ruminants* 18 (1): 52 – 55.
13. Sharma, A. K. and Kataria, N. (2011). **Effect of extreme hot climate on liver and serum enzymes in Marwari goats.** *Indian Journal of Animal Sciences* 81(3): 293-295.
14. Sharma, A. K. and Kataria, N. (2007). **Haematological changes under extreme hot conditions in Marwari goats.** *Royal Veterinary Journal of India* 3 (2): 107-110.
15. Amit Mittal and A K Sharma (2003). **Ascites in canines.** *Veterinary Practitioner* 3 (2): 191-195.

S. No.	Particulars	Number
1.	Research papers in NAAS referred National journals	11
2.	Research papers in International journals	01
3.	Souvenir	01
4.	Compendium	05
5.	Brochures	05
6.	Information booklets	07
7.	Popular articles	02
8.	Abstract in published proceedings/souvenir	11
9.	Practical Manuals/training manuals (Institute level)	11

Lecture delivered:

- **A K Sharma (2021). Haematological function tests in Animals.** March, 01- 05, 2021 in the National Training on “**Latest Advancement In Upstream Reproductive Physiological Techniques**” organized by Department of Veterinary Physiology and Biochemistry, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi.
- **A K Sharma (2019). Recent Advancements in In Vitro Maturation (IVM) technologies in domestic animals.** September, 16- 18, 2019 in the National Training on “**Latest Advancement In Upstream Reproductive Physiological Techniques**” organized by Department of Veterinary Physiology and Biochemistry, COVSAH, JAU, Junagadh (Gujarat) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi.
- **A K Sharma (2016). Kisspeptin and Reproduction: Physiological roles and Regulatory mechanisms.** Jan 16, 2016 in the National Workshop on “**Innovative**”

Strategies of Physiological Genomics Research” organized by Division of Physiology and Climatology, ICAR-IVRI, Izatnagar under the aegis of Animal Physiologists Association (APA).

Remedial lectures delivered:

- **A K Sharma (2021). Mechanisms of Respiratory Gas Transport. July 14, 2021** to the undergraduates of DUVASU, Mathura (UP) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi.
- **A K Sharma (2021). Regulation of Respiration. July 15, 2021** to the undergraduates of DUVASU, Mathura (UP) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi.
- **A K Sharma (2021). Autoregulation of Kidney. July 16, 2021** to the undergraduates of DUVASU, Mathura (UP) under the aegis of Institutional Development Plan (IDP- ICAR), New Delhi.

Membership of professional societies:

- Life Member of Association of Physiologist and Pharmacologist of India. (APPI).
- Life Member of Indian Society of Sheep and Goat Production and Utilization (ISSGPU No. 0689032010).
- Gujarat Veterinary Council – Reg. No. 3097
- Life member of Animal Physiologists Association (APA Acc No. APA/40/2016).
- Life member of Society of Animal Physiologists of India (SAPI Reg. No. 421)

Techniques/skill acquainted:

- Cell Culture, Stem cell culture
- Reproductive Physiology, *In Vitro* Fertilization in buffalo
- Development of stem cells, Physiological Techniques

Training/ Seminar/ Symposium/ Workshop/ Conference attended:

- National Training CAFT (21 days) - 04
- Workshop - 04
- Seminar - 11
- Symposium - 03

Declaration:

I, **A. K. Sharma**, hereby declare that all the information are true, complete and correct to the best of my knowledge.

Place: Junagadh

Date: 22.02.2022

(A. K. Sharma)