

✚ **Name:** Dr. Amit Kumar

✚ **Designation:** Scientist (Animal Reproduction & Gynaecology)

✚ **Major Research Area:** Semen biology, Endocrinology and Assisted reproductive technologies

✚ **Research Area:** Assisted Reproductive Technologies (ARTs) in Farm Animals

✚ **Contact**

○ **Phone:** 9518431940

○ **E-mail:** amit.kumar11@icar.gov.in/ amitkajal7@gmail.com

✚ **Google Scholar Profile** (if available)

<https://scholar.google.com/citations?user=eLi8asQAAAAJ&hl=en>

✚ **Research Gate Profile**(if available) <https://www.researchgate.net/profile/Amit-Kumar-355>

✚ **Academic Career**

Institution/University	Degree	Duration	OGPA
Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar	B.V.Sc. & A.H.	2013-18	8.253
Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar	M.V.Sc (Veterinary Gynaecology & Obstetrics)	2018-20	8.68
ICAR-Indian Veterinary Research Institute (IVRI) located at Izzatnagar, Bareilly, UP	Ph.D. (Veterinary Gynaecology & Obstetrics)	2020-22 (On temporary dropping)	8.66

✚ **Professional Career**

Institution	Position	From (Date)	To (date)
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	Assistant Professor	03-03-2022	10-04-2023
NAARM, Hyderabad	Scientist Trainee	11-04-2023	20-07-2023
ICAR-IIAB, Ranchi	Scientist	21-07-2023	Continuing

✚ Awards and Honours

- Dr D.P. Banerjee Gold Medal for the year 2017-18 by LUVAS, Hisar.
- Professor P.K. Dwarkanath Memorial Gold Medal for the year 2017-18 by LUVAS, Hisar.
- LUVAS Merit Gold Medal for the year 2017-18 by LUVAS, Hisar.
- ICAR- JRF/SRF Fellowship (Ph.D. scholar at IVRI, Izzatnagar, Bareilly)
- Qualified NET conducted by ASRB (ICAR) in 2021.

✚ Publications:

✚ Original research articles:

- **Amit Kumar**, Gyan Singh, Jerome Andonissamy, Pradeep Kumar, Arjun V, Renu Bala, Nisha Verma, R.K. Sharma. (2021). IGF-1 supplementation in semen affects mitochondrial functional and calcium status of buffalo sperm following cryopreservation, *Animal Reproduction Science*, 106783, ISSN 0378-4320, (NAAS rating: 8.25)
- Arjun V, Pradeep Kumar, Ravi Dutt, **Amit Kumar**, Jerome Andonissamy, Renu Bala, Nisha Verma, Meenakshi Virmani, Chandra Shekhar Patil, Sajjan Singh, Dharmendra Kumar. (2021). Is addition or removal of seminal plasma able to compensate for the dilution effect of buffalo semen? *Andrologia*. May 30:e14123. . (NAAS rating: 8.532)
- Arjun, Venkateshappa, Pradeep Kumar, Ravi Dutt, **Amit Kumar**, Renu Bala, Nisha Verma, Andonissamy Jerome et al. "Effect of mitochondria-targeted antioxidant on the regulation of the mitochondrial function of sperm during cryopreservation." *Andrologia* (2022): e14431. (NAAS rating: 8.532)
- Jerome A, RK Sharma, MH Jan, VB Dixit, **Amit Kumar**. 2021. Prevalence of knowledge for hygienic artificial insemination practices in buffalo under field conditions. *Indian Journal of Extension Education*. (57(1)). pp81-84 (NAAS rating: 5.95)
- Arjun, V., Kumar, P., Dutt, R., Kumar, D., **Kumar, A.**, Bala, R., ... Yadav, P.S. (2022). Is Mitochondrial Uncoupler Dinitrophenol Effective in Counterbalancing the Dilution Effect in Buffalo Semen? *The Indian Journal of Animal Reproduction*, 43(1), 22–29.
- Vijay Nain, Sonu Devi, Umed Singh Mehra, **Amit Kumar**. Standardization of dose of acepromazine as a sedative in buffalo calves. *The Pharma Innovation*. **10**(11): 938-943.

✚ Case reports:

- Gyan Singh, Hariom, Ravi Dutt, **Amit Kumar** and Arjun V. 2022. Dystocia due to dicephalic dipus dibrachius monster in a Murrah buffalo. *Buffalo bulletin*. 41(2). pp173-177. (NAAS rating: 6.17)
- **Amit Kumar**, Gyan Singh and Arjun V. 2021. Rare case of oversized fetus with catlin mark in a crossbred holstein friesian cow. *Ruminant Science*.10 (2): 451-452. (NAAS rating: 5.43)
- **Amit Kumar**, Gyan Singh, Arjun V, Hariom, V.K. Jain and R.K. Chandolia. (2019) Dystocia Due to Schistosoma Reflexus In a Murrah Buffalo. *International journal of agriculture sciences*. **11**(20). 9160-9161
- **Amit Kumar**, Gyan Singh, Arjun V, Hariom, V.K. Jain and R.K. Chandolia. (2020).

Dystocia Due to Schistosomus Reflexus Monster in a Sahiwal Cow: A Case Report. *International Journal of Livestock Research*. **10**(1), 84-87.

- **Amit Kumar**, Gyan Singh, Arjun V, Hariom, V.K. Jain and R.K. Chandolia. (2019). Dystocia Due to Hydroallantois and Congenital Foetal Ascites in a Murrah Buffalo - A Case Report. *International Journal of Current Microbiology and Applied Sciences*. **8**(11): 851-854.
- **Kumar, A.**, Mahal, J.S., Bisla , A., & Honparkhe, M. (2022). Management of dystocia due to multiple mal-dispositions in a Marwari mare. *The Indian Journal of Animal Reproduction*, **43**(2), 80–82.
- Gyan Singh, **Amit Kumar**, Sandeep Kumar and V.K. Jain (2020) Dystocia Due to Lateral Deviation of Head in A Murrah Buffalo. *Inter. J. of Agri. Scien*. **12**(7). 9710-9711
- Gyan Singh, **Amit Kumar**, Neeraj Arora and Arjun V. (2020). Successful Management of Pyometra in a Labrador Retriever- A Clinical Case Report. (2020). *International Journal of Current Microbiology and Applied Sciences*. **9**(10): 3823-3827.
- Gyan Singh, Rajesh Kumar, **Amit Kumar**, and Mukesh Kumari. (2020). Management of Dystocia due to Primary Uterine Inertia in Bitch: A Case Report. *Theriogenology Insight*. **10**(1): 01-04.
- Gyan Singh, Arjun V, Hariom, **Amit Kumar**, and Ravi Dutt. (2019). Dystocia Due to Pre-Cervical Uterine Torsion and Fetal Ascites in a Cross-Bred Jersey Cow. *Veterinary Research International*. **7**(1): 40-41
- Gyan Singh, Rajesh Kumar, **Amit Kumar** and Arjun V. Surgical Management of Dystocia in a Non-Descript Doe-A Case Report. (2020). *Veterinary Research International*. **8**(3). 299-301
- Gyan Singh, Rajesh Kumar, **Amit Kumar**, Arjun V, Hariom and V.K. Jain. (2020). Arthrogyposis multiplex congenita in a ewe: A case report. *The Pharma Innovation*. **9** (7): 230-232

Lead paper:

- A.K. Singh, **Amit Kumar** Udeybir Singh. Prospects and potentialities of improving pig farming in Indian scenario. In 19th International Biennial Conference of Animal Nutrition Society of India (ANSICON-2022) on “Nutritional Technologies to Augment Livestock, Poultry, Canine and Fish Production for Global Competitiveness” organised by Department of Animal Nutrition, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana.

Chapters in Books/Training Manuals/Magazines:

- Jerome Andonissamy, **Amit Kumar**, Arjun V, Pradeep Kumar, S.K. Phulia & R.K Sharma. Bhains main parjanaan sambhandhit vikaro ke liye chikitshiya abhivyakti. (2020). In: Training Manual on “Scientific Buffalo Husbandry” published by ICAR-Central Institute for Research on Buffaloes. pp-23-25
- **Amit Kumar**. (2022). Handling and transport of frozen semen for optimal fertility under field conditions. In training compendium of ILRI sponsored International training on Augmentation of Fertility in Buffaloes.

- **Amit Kumar**, JS Mahal and Mrigank honparkhe. (2023). Flow cytometric evaluation of semen- An update. In training compendium of CAFT in Gyn. & Reproduction on Advanced Insights on Theriogenology to Ameliorate Reproductive Health of Domestic Animals.
- JS Mahal, **Amit Kumar** and Mrigank honparkhe. (2023). Management of cystic ovarian degeneration in bovines. In training compendium of CAFT in Gyn. & Reproduction on Advanced Insights on Theriogenology to Ameliorate Reproductive Health of Domestic Animals.

Abstracts:

- **Amit Kumar**, Gyan Singh and R.K. Chandolia. Dystocia due to hydroallantois and congenital foetal ascites in a murrah buffalo. (Published in XXXV Annual Convention of the Indian Society for the study of Animal Reproduction)
- **Amit Kumar**, Gyan Singh, Arjun V, Hariom, and Ravi Dutt. (2019). Dystocia due to dicephalic dipus dibrachius dicaudatus monster in a murrah buffalo. (Published in XXXV Annual Convention of the Indian Society for the study of Animal Reproduction)
- **Amit Kumar**, Sangram Dash, Pradeep Chandra, Shashikant Gupta, Gopal Kumar and Brijesh Kumar. Management of bilateral cryptorchidism in a male boxer dog. In International Symposium “Novel Knowledge, Innovative Practices and Research in Theriogenology” by The Indian Society for Study of Animal Reproduction from December 27th -29th 2021 at Kerala, India.
- **Amit Kumar**, Gopal Sarkar, Pradeep Chandra, Shashikant Gupta, Sangram Dash, Sanjeev Mehrotra and Brijesh Kumar. Management of complicated postpartum uterine prolapse with uterine rupture in a non-descript cow. In International Symposium “Novel Knowledge, Innovative Practices and Research in Theriogenology” by The Indian Society for Study of Animal Reproduction from December 27th -29th 2021 at Kerala, India.
- **Amit Kumar**, Pradeep Chandra, Shashikant Gupta, Sangram Dash, Gopal Sarkar, Brijesh Kumar, Sanjeev Mehrotra and Harendra Kumar. Caslick operation for treatment of pneumovagina in a cross bred holstein friesian cow. In 5th National Online Clinical Case Conference on “Diagnostic and Therapeutic Modalities in Emerging & Re-emerging Animal Diseases” by Post Graduate Institute of Veterinary & Animal Sciences, Akola, Maharashtra from December 27th -29th 2021.
- Upender and **Amit Kumar**. 2022. Food safety issues at farm stage of production in the scenario of one health. (Published in XXIX Annual Conference of IAAVR & National Symposium on Advancement in Veterinary medical research contributing to **one health** for betterment of animal and public health)
- Gyan Singh, **Amit Kumar**, and R.K. Chandolia. (2019). Clinical diagnosis of granulosa cell tumour by ultrasonography in a murrah buffalo. (Published in XXXV Annual Convention of the Indian Society for the study of Animal Reproduction)
- Gyan Singh, **Amit Kumar**, Sandeep Kumar, Hariom, Arjun V, V.K. Jain and R.K. Chandolia. (2019). Dystocia due to Schistosoma reflexus in a sahiwal cow and murrah buffalo: a study of two cases (Published in 43rd Annual Congress of Indian Society for Veterinary Surgery)
- Ravi Dutt, Gyan Singh, **Amit Kumar**, S.S. Patil and R.K. Chandolia. (2018). Dystocia

due to lipomatous fetus with pseudohypertrophy of muscles and dropsy of fetal membranes in a buffalo. (Published in XXXIV Annual Convention of the Indian Society for the study of Animal Reproduction)

- Jerome Andonissamy, Pradeep Kumar, Renu Bala, **Amit Kumar**, Arjun Reddy, Shivanagouda Patil, Sajjan Singh & R.K. Sharma. (2019). Buffalo sperm dosage in relation to its functional parameters and field fertility outcome. (Published in XXXV Annual Convention of the Indian Society for the study of Animal Reproduction).

Popular articles:

- **Amit Kumar**, Gyan Singh & Sandeep Kumar. पशुओं तथा मनुष्यों में ब्रूसेल्लोसिस के कारण, लक्षण, निदान एवं उपचार. Pashudhan Gyan. (Jan, 2019): pp 1-2
- Gyan Singh & **Amit Kumar**. गर्भावस्था के दौरान भैंसों में ध्यान देने योग्य कुछ महत्वपूर्ण बिन्दु. Pashudhan Gyan. (Jan, 2019): pp 26-27
- अमित कुमार एवं ज्ञान सिंह. कृत्रिम गर्भाधान से पशुओं के नस्ल में हो रहा सुधार, जानें, गाभिन ठहराने की सही विधि (2021). Krishi Jagran,
- **Amit Kumar** & Gyan Singh. Feeding of Dam During Postpartum Period to Augment Fertility in Bovines: A Scientific Approach. Engormix, published on 01-04-2021.
- **Amit Kumar**. Infectious Bovine Rhinotracheitis (IBR)/ Red-Nose. Pashudhan Praharee. Oct 19, 2020.
- उपेंद्र, अमित कुमार, उमेश सिंह मेहरा. डेलेदार त्वचा रोग (एलएसडी): मवेशियों के लिए एक उभरता हुआ खतरा. Pashudhan Praharee. published on 14-11-2021.
- **Amit Kumar**, Gyan Singh & Sandeep Kumar. 2022 Kritrim garbhadhan - sahayak prajanan prodyogiki. Pashudhan Gyan. 8(1): pp 31-35.
- **Amit Kumar** and A K Singh. 2022. An in-depth analysis of Indian piggery industry. (2022). *Vet Alumnus*. 44 (1): 25-29.
- Upender, **Amit Kumar** and Sudesh Kumar. Vitamin and mineral disparities in poultry birds. (2022). *Vet Alumnus*. 43 (No. 1 & 2): 25-29.
- **Amit Kumar** and A K Singh. 2022. An in-depth analysis of Indian piggery industry. (2022). *Vet Alumnus*. 44 (1): 25-29.
- **Amit Kumar** and A K Singh. 2022. Methods of pregnancy diagnosis in canine: an overview. (December, 2022). *Vet Alumnus*. 44 (1): 25-29.
- **Amit Kumar** and Mrigank Honparkhe. Reproductive management of goats: An overview. (June, 2023). *Vet Alumnus*. 45 (1): 21-25.