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<b>Educational Qualifications</b>	2004 B.V.Sc. & A.H., MHOW, JNKVV, Jabalpur (M.P.) 2006 M.V.Sc., MHOW, JNKVV, Jabalpur (M.P.) 2010 Ph.D., GADVASU, Ludhiana (Punjab) 2019 Post-Doc (Brazil)
<b>Employment Details</b>	Assistant Professor: 25 <sup>th</sup> August 2009– 16 <sup>th</sup> September 2019 Associate Professor: 17 <sup>th</sup> September 2019 to till date
<b>Research Interests</b>	Improvement of fertility by improving antiluteolytic mechanisms in bovine; Embryo transfer technology and Invitro Fertilization in Bovine. <b>Presently working on research projects:</b> 1. “Embryo transfer, Invitro fertilization (IVF) laboratory and production of High genetic IVF embryos from Indigenous cattle breed of Haryana” ( <b>Duration: 2018 onwards</b> ). 2. “Implementation of Embryo transfer and In-vitro fertilization (IVF) technologies for bovine breeding” ( <b>Duration: 2018 onwards</b> ). <b>Research projects complete::</b> 1. “Diagnosis of infertility owing to hormonal imbalance and optimizing fertility through hormonal approaches in dairy animals” ( <b>Duration: 2014 -2017</b> ) 2. “Characterization of the Murrah buffaloes based on melatonin receptor (MTNR1A) gene polymorphism and its association with reproductive seasonality” ( <b>Duration: 2016- 2018</b> )
<b>Membership of scientific societies</b>	Indian Society for Study of Animal Reproduction (ISSAR) Society of Animal Physiologist of India (SAPI) Indian Society for Buffalo Development (ISBD) Sociedade Brasileira de Tecnologia de Embrioes (SBTE) of Brazil
<b>Selected Publications</b>	N. Sonia, <b>A. K. Pandey</b> , A. Kumar, A. Verma, S. Kumara, P. Gunwant, J.B. Phogat, V. Kumar, V. Singh (2020). Expression of MTNR1A, steroid (ER $\alpha$ , ER $\beta$ , and PR) receptor gene transcripts, and the concentration of melatonin and steroid hormones in the ovarian follicles of buffalo. <i>Domestic Animal Endocrinology</i> <b>72</b> (July, 2020) 106371. <a href="https://doi.org/10.1016/j.domaniend.2019.06.003">https://doi.org/10.1016/j.domaniend.2019.06.003</a> . <b>Anand Kumar Pandey</b> , P. Gunwant, N. Soni, Kavita, S. Kumar, A. Kumar, A. Magotra, I. Singh, J.B. Phogat, R.K. Sharma, Y. Bangar, S.P.S. Ghuman, S.S. Sahu (2019). Genotype of MTNR1A gene regulates the conception rate following melatonin treatment in water buffalo. <i>Theriogenology</i> 128: 1-7.

- Pankaj Gunwant, **Anand Kumar Pandey**, Aman Kumar, Inderjeet Singh, Sandeep Kumar, J.B. Phogat, Vinay Kumar, C.S. Patil, Piyush Tomar, Sunil Kumar, Ankit Magotra (2018). Polymorphism of melatonin receptor (MTNR1A) gene and its association with seasonal reproduction in water buffalo (*Bubalus bubalis*). *Animal Reproduction Science* 199: 51–59.
- A. K. Pandey**, S. P. S. Ghuman, G. S. Dhaliwal, J. B. Phogat and S. Kumar (2018). Effects of preovulatory follicle size on estradiol concentrations, corpus luteum diameter, progesterone concentrations and subsequent pregnancy rate in buffalo cows (*Bubalus bubalis*). *Theriogenology* 107: 57-62.
- A. K. Pandey**, S. P. S. Ghuman, G. S. Dhaliwal, S. K. Agarwal and J. B. Phogat (2016). Impact of Buserelin Acetate or hCG Administration on the Day of First Artificial Insemination on Subsequent Luteal Profile and Conception Rate in Murrah Buffalo (*Bubalus bubalis*). *Reproduction in Domestic Animals* 10.1111/rda.12705.
- A. K. Pandey**, G. S. Dhaliwal, S. P. S. Ghuman, and S. K. Agarwal. (2015) Impact of buserelin acetate or hCG administration on day 5 post-ovulation on subsequent luteal profile and conception rate in Murrah buffalo (*Bubalus bubalis*). *Animal Reproduction Science* **162**:80-7.
- Pandey, A. K.**, Ghuman, S. P. S., Dhaliwal, G. S., Kumar, A., Agarwal, S. K. (2013). Impact of Buserelin acetate or hCG administration on day 12 postovulation on subsequent luteal profile and conception rate in buffalo (*Bubalus bubalis*), *Animal Reproduction Science* **136**: 260-267.
- Anand Kumar Pandey**, Gurcharan Singh Dhaliwal, Sarvpreet Singh Ghuman, Jagir Singh, Ajeet Kumar and Sudhir Kumar Agarwal (2013). Impact of norgestomet supplementation during early luteal phase on subsequent luteal profiles and conception rate in buffalo: a preliminary study. *Tropical Animal Health and Production*, **45**(1): 293-298.
- A. K. Pandey**, G. S. Dhaliwal, S. P. S. Ghuman, S. K. Agarwal (2011). Impact of pre-ovulatory follicle diameter on plasma estradiol, subsequent luteal profiles and conception rate in buffalo (*Bubalus bubalis*). *Animal Reproduction Science* **123**: 169-174.

#### Detailed List of Publications:

##### Original article/Research papers:

##### International publication:

- Marcos R. Chiaratti, Carolina H. Macabelli, José Djaci Augusto Neto, Mateus Priolo Grejo, **Anand Kumar Pandey**, Felipe Perecin and Maite del Collado (2020). Maternal transmission of mitochondrial diseases. *Genetics and Molecular Biology*, 43, 1(suppl 1), e20190095 (2020). DOI: <http://dx.doi.org/10.1590/10.1590/1678-4685-GMB-2019-0095>.
- Karen F. Carvalho, Thiago S. Machado, Bruna M. Garcia, Amanda F. Zangirolamo, Carolina H. Macabelli,| Fabrícia H. C. Sugiyama, Mateus P. Grejo, J. Djaci Augusto Neto, Katiane Tostes, Fernanda K. S. Ribeiro, Fabiana D. Sarapião, **Anand K. Pandey**, Ricardo P. Nociti, Polyana Tizioto, Luiz Lehman Coutinho, Flávio V. Meirelles, Francisco E. G. Guimarães, Lena Pernas, Marcelo M. Seneda, Marcos R. Chiaratti (2020). Mitofusin 1 is required for oocyte growth and

communication with follicular somatic cells. *The FASEB Journal*. 2020;**34**:7644–7660. DOI: 10.1096/fj.201901761R.

Kavita, Jagat Bir Phogat, **Anand Kumar Pandey**, Ashok Kumar Balhara, Sarvpreet Singh Ghuman and Pankaj Gunwant (2018). Effects of melatonin supplementation prior to Ovsynch protocol on ovarian activity and conception rates in anestrus Murrah buffalo heifers during out of breeding season. *Reproductive Biology* **18**(2):161-168.doi: 10.1016/j.repbio.2018.03.001.

J. B. Phogat, **Anand Kumar Pandey** and Inderjeet Singh (2016). Seasonality in Buffaloes Reproduction. *International Journal of Plant, Animal and Environment Sciences* **6**(2): 46-54.

### National publications:

Aman Parkash Dhaka, **Jagat Bir Phogat**, Shobhna Singh, **Anand Kumar Pandey**, Karan Sharma, **Sonu Kumari**. (2019). Efficacy of modified co-synch plus protocol with or without progesterone device for estrus induction and conception rate in Murrah buffaloes under field conditions during summer season. *Buffalo Bulletin* (April-June 2019) Vol.38:2, 353-361. (NAAS: **6.10**).

Sushil Kumar, Sajjan Sihag, Zile Singh Sihag, C. S. Patil, Surender Singh Dhaka and **Anand Kumar Pandey** (2019). The effects of dietary  $\omega$ -3 and  $\omega$ -6 fatty acids on nutrient utilization and growth performance in Sahiwal Heifers. *Indian Journal of Animal Nutrition* **36**(4): 358-364.

Parveen Kumar, **Anand Kumar Pandey**, Sandeep Kumar, Ajit Verma, Sandeep Kumar, SK Phulia and RK Sharma (2018). Comparative study of oxidative stress between ovsynch and doublesynch estrus synchronization protocols on the day of AI in cyclic murrah buffaloes during winter. *The Pharma Innovation Journal* **7**(11): 222-224.

Parveen Kumar, **Anand Kumar Pandey**, Ajit Verma, Sandeep Kumar, SK Phulia, Sandeep Kumar and RK Sharma (2018). Evaluation of effect of different estrus synchronization protocol on oxidative stress during summer season in cyclic Murrah Buffaloes. *The Pharma Innovation Journal* **7**(11): 202-204.

Madan J., Kumar S., Sindhu, S. Gupta M., **Pandey A.K.**, Yadav, A.S., Rose M.K. (2019). A Study of Thyroid Hormone Levels in Beetal Goats During Different Development Stages. *International Journal of Bio-resource and Stress Management* 10(2):137-140. [HTTPS://DOI.ORG/10.23910/IJBSM/2019.10.2.1962](https://doi.org/10.23910/IJBSM/2019.10.2.1962)

Ajit Verma, RK Chandolia, Rakesh Kumar, Nitin Soni, Sandeep Kumar, **Anand Kumar Pandey** and Sonu Kumari (2018). Ultrasonographic assessment of buffalo's liver before and after caesarean section in relation to survival rate. *The Pharma Innovation Journal* **7**(8): 589-591.

Parveen Kumar, RA Luthra, Rakesh Kumar, Nitin Soni, Ajit Verma, Sandeep Kumar, **Anand Kumar Pandey** and Gyan Singh (2018). A retrospective study on incidence of dystocia in buffaloes at a referral center. *The Pharma Innovation Journal* 2018; **7**(8): 579-581.

Ajit Verma, RK Chandolia, Rakesh Kumar, Nitin Soni, Sandeep Kumar, **Anand Kumar Pandey** and Sonu Kumari (2018). Ultrasonographic assessment of kidney in dystocia affected buffaloes before and after caesarean section in relation to survival rate. *The Pharma Innovation Journal* **7**(8): 320-322.

Verma, A., Chandolia, R.K., Kumar, R., Soni, N., Kumar, S., **Pandey, A.K.** and Kumari, S., Ultrasonographic Studies on Heart Parameters in Relation with Survival Rate of Buffalo During Pre and Post Caesarean Section, *Int. J. Pure App. Biosci.* **6**(3): 448-452 (2018). doi: <http://dx.doi.org/10.18782/2320-7051.6709>

Nitin Soni, Rakesh Duggal, Ajit Verma, Pinki Rani, **Anand Kumar Pandey**, Sandeep Kumar and JB Phogat (2018). Melatonin, an important candidate which regulates the animal reproduction: A review. *International Journal of Chemical Studies* **6**(4): 2068-2074.

Rakesh Kumar, Nitin Soni, **Anand Kumar Pandey**, Sandeep Kumar and Neeraj (2018). Coumestrol, a potent Phytoestrogen to control male animal's fertility: A review. *International Journal of Chemical Studies*, **6**(4): 179-182.

- Kumar, S., Kumar, R., Soni, N., Verma, A., **Pandey, A.K.** and Gupta, S. (2018). Effect of Vitamin C on Trace Minerals Profiles during Pre and Post Cesarean Section in Dystocia Affected Water Buffaloes (*Bubalus bubalis*), *Int. J. Pure App. Biosci.* **6(3)**: 227-229 (2018). doi: <http://dx.doi.org/10.18782/2320-7051.6686>
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- Rakesh Kumar, Nitin Soni, Sandeep Kumar and **Anand Kumar Pandey**. 2018. Chemical Control of Fertility in Male Dogs: A Review. *Int.J.Curr.Microbiol.App.Sci.* 7(07): xx-xx. doi: <https://doi.org/10.20546/ijcmas.2018.707.xx>
- R. Kumar, A. K. Sharma and **A. K. Pandey** (2017). Coumestrol feeding - an attempt to develop a tool for Sterilization of male stray dogs. *Indian Journal of Animal Reproduction* **39(1)**: 55-56.
- Rakesh Kumar, A. K. Sharma and **Anand Kumar Pandey** (2017). Effects of Oral Feeding of Coumestrol on Efferent Ductules in Dogs. *Journal of Animal Research* **7(4)**: 793-795.
- Rakesh Kumar, A. K. Sharma and **Anand Kumar Pandey** (2017). Effect of Coumestrol Feeding on Sterilization of Male Dog. *International Journal of Pure and Applied Biosciences* **5 (5)**: 178-182.
- Rammehar Singh, Satbir Sharma, Deepak Kumar Tiwari, R.N. Chaudhary, Sandeep Saharan and **Anand Kumar Pandey** (2017). Management of urinary obstruction in buffalo calves by tube cystostomy. *Buffalo bulletin* **36(2)**: 307-312.
- A. Saini, R.A. Luthra, **A.K. Pandey**, T. Nanda and L. Kumar (2017). Use of progesterone impregnated indigenous sponges along with PMSG for the induction of cyclicity in anestrus murrah Buffalo. *Indian journal of Animal Reproduction* **38(1)**: 12-15.
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- Kumar L, Phogat JB, **Pandey AK**, Phulia SK, Kumar S, Dalal J (2016). Estrus induction and fertility response following different treatment protocols in Murrah buffaloes under field conditions. *Veterinary World*, **9(12)**: 1466-1470.
- Devender, R. K. Chandolia, Gyan Singh, **Anand Kumar Pandey** and Sonu Kumari (2016). Comparative study of echogenicity of fetal fluid in normal and uterine torsion affected buffaloes. *Haryana Vet.* **55(2)**: 176-178.
- Devender, R. K. Chandolia, **Anand Kumar Pandey**, Vishal Yadav, Parveen Kumar and Jasmer Dalal (2016). Transabdominal color ultrasonography: A relevant approach for assessment of effects of uterine torsion in buffaloes. *Veterinary World* **9(8)**: 842-849.
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- Rajesh Kumar, A.K. Sharma and **Anand Kumar Pandey** (2016). Effect of Coumestrol on Efferent Ductules in Dogs. *Journal of Animal Research* **6(3)**: 499-501.
- P. Kumar, **A. K. Pandey**, S. K. Phulia, S. Kumar, R. K. Sharma and L. Kumar and N. Bishnoi (2016). Absence of an association between oxidative stress and pregnancy outcome following ftai in buffalo during summer and winter season. *Indian journal of Animal Reproduction* **37(2)**: 25-27.
- Parveen Kumar, **Anand Kumar Pandey**, S.K. Phulia, R.K. Sharma, Sandeep Kumar, Lokesh, Devender and Vishal (2016). Effect of Seasonal Variation on Oxidative Stress Parameters in Cyclic Murrah Buffaloes Following Synchronized Estrus through Doublesynch Protocol. *Journal of Animal Research* **6(4)**: 657-661.
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- sperm motion traits, viability, membrane integrity, heat shock protein (HSP70) expression and fertility associated antigen (FAA). *Indian Journal of Animal Sciences* **86** (6): 648–654.
- P. Kumar, **A. K. Pandey**, S. Kumar, S. K. Phulia, R. K. Sharma and L. Kumar (2016). Plasma mineral profile and pregnancy status in buffalo subjected to doublesynch in summer and winter season. *Indian journal of Animal Reproduction* **37**(1): 32-34.
- B. P. Sonar, R. P. Tiwari, M. R. Poyam, G. K. Mishra, **A. K. Pandey**, A. K. Nair and S. A. Sahasrabudhe (2016). Characteristics and freezability of Gir bull semen. *Indian Journal of Animal Sciences* **86** (3): 264–272.
- Praveen Kumar, **A. K. Pandey**, S. K. Phulia, Sandeep Kumar, R. K. Sharma, Nidhi Bishnoi and Kailash Kumar (2015). Effect of Ovsynch Estrus Synchronization Protocol on Certain Mineral Profile of Cyclic Murrah Buffaloes in summer and Winter Season. *Journal of Animal Research*. **5**(4): 909-913.
- Kailash Kumar , R.K. Chandolia, Sandeep Kumar, Madan Pal, Sarvan Kumar and **Anand Kumar Pandey** (2015). Prediction of gestational age in beetal goats by ultrasonic fetometry. *The Indian Journal of Small Ruminants* **21**(2): 238-241.
- Sonu Kumari, R.A. Luthra, R.K. Chandolia, **Anand Kumar Pandey**, Dheer Singh Swami, A.S. Yadav and Kailash Kumar (2015). Ultrasonographic Study of Testicular Development in Beetal Bucks. *Journal of Animal Research* **5**(2): 237-242.
- Nafis I Assad and **Anand Kumar Pandey** (2015). Different approaches to diagnose uterine pathology in mares: A review. *Theriogenology Insight* **5**(3): 157-182.
- Devender, R. K. Chandolia, **A. K. Pandey**, Vishal Yadav, and Praveen Kumar (2015). Blood flow characteristics of heart in normal and uterine torsion affected buffaloes. *Haryana Veterinarian* **54**(2): 206-207.
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- Lokesh Kumar, R. A. Luthra, **Anand Kumar Pandey**, J. B. Phogat, Praveen Kumar, Gyan Singh, Sandeep Kumar and Manish Pareek (2015). A retrospective study on incidence of uterine torsion in bovines. *Haryana Veterinarian* **54**(2): 135-137.
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- N. K. Kedia, R. P. Tiwari, G. K. Mishra, M. R. Poyam, **A. K. Pandey**, A. K. Nair and S. A. Sahasrabudhe (2014). Characteristics and freezability of Tharparkar bull Semen. *Indian Journal of Animal Sciences*, **84**(4): 382-388.
- A. K. Pandey**, Gyan Singh, Sandeep Kumar, Kailash Kumar and R. A. Luthra (2014). Therapeutic management of Hydrallantois- A report of 22 buffaloes. *Intas Polivet* **15**(II): 211-214.
- B. P. Sonar, R. P. Tiwari, G. K. Mishra, M. R. Poyam, **A. K. Pandey**, A. K. Nair and S.A. Sahasrabuddhe (2013). Effect of liquid nitrogen levels during storage on quality of frozen semen of gir bulls. *Indian Journal of Animal Reproduction* **34**(2): 13-16.
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- Nafis I Assad and **Anand Kumar Pandey** (2012). Endometritis in mares due to coliform and its successful treatment. *Indian Journal of Animal Reproduction* **33**(2): 76-78.

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- Gyan Singh, Suresh Chander, **A. K. Pandey** and Ravi Dutt (2011). Distribution pattern of reproductive disorders in bovines- Clinical report. *Indian Journal of Veterinary Research* **20**(2): 29-31.
- Lalthazuali, Jagir Singh, S. P. S. Ghuman, **A. K. Pandey** and G. S. Dhaliwal (2010). Impact of insulin treatment during post-insemination mid-luteal phase on luteal profile and conception rate in buffaloes. *Indian Journal of Animal Science* **80** (9): 854-856.
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#### Case reports:

- Gyan Singh, **Anand Kumar Pandey**, Pankaj Gunwant, Jasmer, Lokesh and Kavita (2018). Dystocia due to anasarca monster co-twin with normal fetus in murrah buffalo. *Buffalo Bulletin*, **37**(3): 431-433.
- Gyan Singh, **Anand Kumar Pandey**, Jasmer, Pankaj Gunwant, Lokesh, Kavita and Sarita (2018). Per vaginal delivery of a derodimus dicephalus monoster fetus in murrah buffalo - a case report. *Buffalo Bulletin*, **37**(3): 435-436.
- Sandeep Kumar, Karan Sharma, Nitin Soni, Ajit Verma, **Anand Kumar Pandey**, Shivanagouda Patil and Vinay Yadav (2018). Dystocia due to Siamese twin monster in a Murrah buffalo. *Blue Cross Book* **37**: 70-71.
- Gyan Singh, Ravi Dutt, Neeraj Arora, Shivanagouda S. Patil, **Anand Kumar Pandey** (2018). Successful management of urethral calculus in a Mare by manual Lithotripsy. *International Journal of Pure and Applied Bioscience*, **6**(4): 725-727.
- Anand Kumar Pandey**, Gyan Singh, Parveen Kumar, Sandeep Kumar, Sonu Kumari, Vishal Yadav and Devender Dhanda (2017). Crooked calf disease as a rare cause of dystocia in a murrah buffalo. *Buffalo Bulletin*, **36**(3): 555-557.
- Anand Kumar Pandey**, Parveen Kumar, Sonu Kumari, Gyan Singh, Sandeep Kumar, Vishal Yadav, Lokesh Kumar, Manish Pareek and Satbir Sharma (2017). Dystocia due to iniodymous conjoined twin monster fetus in a buffalo and its removal by fetotomy. *Buffalo Bulletin*, **36**(3): 565-567.

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- Anand Kumar Pandey**, Sandeep Kumar, Gyan Singh, Sonu Kumari, J. B. Phogat, Satbir Sharma, Lokesh Kumar and Dinesh Mittal (2017). Delivery of Monster Fetus with Catlin Mark and Agnathia in Sheep -A Rare Case Report. *Indian Veterinary Journal* 94(03):59-60.
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- Anand Kumar Pandey**, Gyan Singh, Parveen Kumar, Sonu Kumari, Sandeep Kumar, J. B. Phogat, Satbir Sharma, Lokesh Kumar and Nidhi Bishnoi (2016). A Rare Case of Hydrallantois Accompanied by Fetal Deformity in Bikaneri Ewe. *Indian Veterinary Journal* 93(09):53-54.
- R.N. Chaudhary, Satbir Sharma, D.K. Tiwari, **A.K. Pandey** and Ram Mehar (2016). Management of Intussusception Mimicking rectal prolapsed- A clinical study of Six Puppies. *Intas Polivet* 17(1): 177-179.
- Gyan Singh, Jasmer, **A. K. Pandey**, Kavita, Pankaj Gunwant, Sarita and R. K. Chandolia (2016). Clinical management of post-partum uterine prolapsed in Doe: A case report. *Haryana Veterinarian* 55(01): 114-115.
- Anand Kumar Pandey**, Gyan Singh, Parveen Kumar, Sandeep Kumar, Sonu Kumari, Satbir Sharma, Sarvan Kumar and Davinder Singh (2016). Dystocia in a she monkey due to bilateral shoulder flexion: A rare case report. *Indian Veterinary Journal* 93(04): 61-62.
- Anand Kumar Pandey**, R. N. Chaudhary, Gyan Singh, T. C. Jangir, Sandeep Kumar, Deepika Lather, A. K. Shrivastava, Kailash Kumar and Divya Dahare (2015). Surgical Management of Uterine Fibro-Leiomyoma with Pyometra in a Bitch. *Indian Veterinary Journal* 92(2): 80-82.
- Anand Kumar Pandey**, Gyan Singh, Sandeep Kumar and Shyam Sunder (2015). Dystocia due to schistosomus reflexus monster in a haryana cow-a case report. *Veterinary Practitioner* 16(01): 135.
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