

Curriculum Vitae

PAWAN KUMAR DUBEY Ph.D.

Assistant Professor

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Education:

- ✚ Ph. D. Animal Science (specialization: Embryo & Stem Cell Biology), Feb. 2012. Indian Veterinary Research Institute/MJP Rohilkhand University, Bareilly, India,
- ✚ M. Sc. Biotechnology (specialization: Mammalian Reproductive Physiology), July 2005, Dept. of Biotechnology, VBS Purvanchal University, Jaunpur, India.
- ✚ B. Sc. Zoology, (Minor: Botany and Chemistry), July 2002, Udai Pratap College, Varanasi, U.P. India

Details of Professional Recognitions, Awards, and Fellowships received:

Awards/research project:

- ✚ Prof. H.N. Tripathi Memorial Award-2023
- ✚ Dr. P.D. Sethi Memorial Annual Award (2020) for Best Research Paper
- ✚ Most Productive Researcher Award (2019) by Institute of Science, BHU
- ✚ Young Scientist Award (2018) by U.P. Council of Science & Technology, Govt. Of Uttar Pradesh
- ✚ Venus International Young Faculty Award-2016 (VIFA-2016)
- ✚ Dr. G. Nirmalan Trust Award-2015 for best research paper publication
- ✚ SLTB Best Poster Presentation Award in International Conference (2015).
- ✚ International Travel Award by DST, Govt. of India (2015).
- ✚ Fulbright-Nehru Post-Doctoral Award, University of Maryland, USA (2013-14)
- ✚ DST-SERB-Fast Track Young Scientist Award (2016)
- ✚ DBT-Research Associateship Award in life sciences & Biotechnology (2012)
- ✚ J. N. Pandey Memorial award for best paper presentation by SAPI (2010)
- ✚ Best poster presentation award in an International Conference by ISSRF (2010)

a) Details of professional training and research experience, specifying period.

- ✚ **Fulbright-Nehru Post-Doctoral Fellowship** (from September 2013 to September, 2014) on "*Generation of DNA foot print free bovine induced pluripotent stem cells*" in Dept. of Animal & Avian Science, University of Maryland, College Park, USA.
- ✚ **DBT-Post Doctoral Research Fellowship** (from July 2011 to June 2013) on project entitled "*Establishment of pluripotent embryonic stem cell lines from in vitro derived buffalo (*Bubalus bubalis*) embryo*" at Division of Physiology and Climatology, Indian Veterinary Research Institute, Izatnagar, Bareilly, India.
- ✚ **Senior Research Fellowship** (from Jan 2010 to March 2011) in DBT sponsored research project entitled "*Expression of developmental genes in buffalo oocytes, in vitro derived embryos and in nuclear transfer embryos reconstructed with embryonic stem cell*" at Division of Physiology and Climatology, Indian Veterinary Research Institute, Izatnagar, Bareilly, India.
- ✚ **Senior Research Fellowship** (from Aug. 2006-Nov. 2009) on DBT sponsored project entitled "*Isolation, Characterization and in vitro development of buffalo preantral follicles for embryo production*" at Division of Physiology and Climatology, Indian Veterinary Research Institute, Izatnagar, Bareilly, India.
- ✚ **One and half year post-PG research experience** (from March 2005 to Aug. 2006) in the field of Reproductive physiology from *Department of Reproductive Biomedicine, National Institute of Health and Family Welfare (NIHFW), New Delhi.*
- ✚ **Research traineeship** (from May 2004-July 2004) in *National Botanical Research Institute (NBRI), Lucknow, U.P.* on topic "*Effect of Cadmium on seed germination and stem and root length of vigna munga plant.*"

Details of Professional Training and Research Experience:

Professional training:

1. **National workshop** on “**CRISPR Editing in Mammalian Cells and Embryos**” from November 4 to 9, 2019 at CIRB, Hisar.
2. **Good Clinical Practice, current regulatory and ethical requirements for conducting clinical trials/research in India** organized by Institute of Science, Banaras Hindu University (BHU), Varanasi under aegis of Clinical Development Services Agency (CDSA), from November 27-28, 2019.
3. **Hands on Training** on “**Maternal and Newborn care: Issues and Challenges**” from March 1, to March 7, 2017 organized by Institute of Science, BHU, Varanasi.
4. **Hands on Training** on “**Upstream Physiological Techniques**” from January 16, 2015 to January 29, 2015 organized by CAFT Physiology & Climatology Division IVRI, Izatnagar.
5. **National training** on “**Advances in Stem Cell Therapy in Livestock and Pets and its Business Potential**” organized by NAIP-ICAR New Delhi at IVRI, Izatnagar, from July 16-29, 2013.
6. **National Workshop** on “**Stem Cell Research & Therapeutics: Current Status & Future Strategies**” organized by ISSRF at IVRI, from September 28-29, 2012.
7. **One week training** on “**Faculty Development Program in Entrepreneurship**” sponsored by Department of Science & Technology, Govt. of India from 22nd March-2nd April, 2010.
8. **Two days workshop** on “**Management of IPR in Biotechnology**” sponsored by Department of Biotechnology, Govt. of India from 15-16th March, 2007 at Lucknow

Research Interests:

- (1) Mapping, identification and characterization of human disease genes
- (2) Identification of novel candidate genes for cancer therapeutics
- (3) Identification and characterization of novel protein-protein interaction underlying human disease with special reference to uterine fibroid & Gestational diabetes.

Teaching Interest:

1. Developmental Biology
2. Reproductive Genetics
3. Assisted Reproductive Technologies

RESEARCH GUIDANCE

M.S./M.Tech./B.Tech.: 21 (awarded), 03 (enrolled)

Ph.D.: 02 (awarded) and 02 (enrolled).

PROJECTS AND GRANTS

S.No	Project Title	PI/Co.PI	Funding agency	Duration	Amount
1.	Generation of germ cell deficient male mice/goat (<i>Capra hircus</i>) using CRISPR/Cas-9 for biomedical and agricultural applications	Dr. Pawan Kumar Dubey (Principal investigator)	Science & Engineering Research Board (SERB), New Delhi	2015-2019	22,50,000/-
2.	Trans-differentiation of human umbilical cord tissue derived mesenchymal stem cells into neurogenic cell lineage: implication for hypoxic ischemic brain damage	Dr. Pawan Kumar Dubey (Principal investigator)	University Grant Commission (UGC)	2017-2019	8,00,000/-
3.	Development of rat uterine fibroid animal model using DNA base editor mediated MED12 mutagenesis	Dr. Pawan Kumar Dubey (Principal investigator)	Science & Engineering Research Board (SERB), New Delhi	2020-2023	47,09,600/-
4.	Design and development of Pyrazole based soluble epoxide hydrolase inhibitor to rescue cholesterol homeostasis: A Search of potential drug candidate for Niemann-pick disease type C	Dr. Pawan Kumar Dubey (Principal investigator)	ICMR	2023-2026	87 lakhs

Research Publications:

(Google Scholar: Citation index: 1008, h-index: 21; i10-index: 31)

(Web of Science: h-index: 10)

(<http://scholar.google.co.in/citations?user=SLLNzJIAAAAJ&hl=en>)

Published research manuscripts:

1. Sonal Upadhyay and **Pawan K. Dubey**. Gene Variants polymorphisms and Uterine Leiomyoma: An updated review. **Frontiers in Genetics-Cancer Genetics and Oncogenomics**. Article Id: 1330807; **2024**.
2. V Pandey, P Jain, A Rani, A Tripathi, **Pawan K. Dubey**. Variants in exon 2 of MED12 gene causes uterine leiomyoma's through over-expression of MMP-9 of ECM pathway. **Mutation Research**, 828; 111839, **2024**. IF- **2.3** (Corresponding (Incentive grant for faculty, IOE-BHU) -Q2)
3. A Sharma, **Pawan K Dubey**, P Kumar, KN Tiwari, A Tripathi. Identification and molecular characterization of genes modulating progression of an oocyte from M-I to M-II in rat ovary. **American Journal of Reproductive Immunology** 91 (2), e13825, **2024**
4. S Upadhyay, V Pandey, A Tripathi, AN Sahu, A Rani, A Divakar, L Chaubey, R Gupta, **PK Dubey**. A comparative analysis of phytochemicals vs synthetic drugs/nanomedicines in the treatment of Uterine Fibroid: A Systematic Review. **Toxicology and Environmental Health Sciences**, **2023**. IF- **1.7**. (Corresponding (Incentive grant for faculty, IOE-BHU)-Q4)
5. S Upadhyay, R Bhushan, A Tripathi, L Chaubey, A Diwakar, **PK Dubey**. Differential gene expression profile evaluation between uterine leiomyoma's and leiomyosarcoma using a machine learning approach. **Gynecology and Obstetrics Clinical Medicine**, 3(3), 154-162, **2023**, **2023** Corresponding (Incentive grant for faculty, IOE-BHU) **Q4**
6. S Ayesha, A Sharma, J Chauhan, V Pandey, **PK Dubey**, A Tripathi. Intervention of phytochemicals during the endometriosis and its possible mechanisms. **Revista Brasileira de Farmacognosia**, 33, 1315, **2023**. IF- **1.6** (Co-Author-Q2)
7. A Ali, A Kumar, PK Dubey, V Pandey, A Singh. Unilateral hemihypertrophy syndactyly and hyperpigmentation with mosaic 2q35deletion. **Indian J Dermatol**, 68:558-62, **2023**. IF- **1.78** (Co-Author-Q2)
8. Debadatta Mohapatra, Ravi Pratap, Vivek Pandey, Singh Shreya, Gaurav Gopal Naik, Subhash C Mandal, Sunday O Otimenyin, **Pawan K Dubey**, Avanish S Parmar, Alakh N Sahu. Bioengineered dual fluorescent carbon nano dots from Indian long pepper leaves for multifaceted environmental and health utilities. **Environmental Science and Pollution Research** 30(18); 52182-52208: 2023 <https://doi.org/10.1007/s11356-023-25887-9>
9. Debadatta Mohapatra, Dulla Naveen Kumar, Singh Shreya, Vivek Pandey, **Pawan K Dubey**, Ashish Kumar Agrawal, Alakh N Sahu. Quality by design-based development and optimization of fourth-generation ternary solid dispersion of standardized *Piper longum* extract for melanoma therapy. **Drug Delivery and Translational Research** 09 June 2023. <https://doi.org/10.1007/s13346-023-01375-y>
10. Ravi Bhushan, Anjali Rani, Deepali Gupta, Akhtar Ali, **Pawan K Dubey**. MicroRNA-7 regulates insulin signaling pathway by targeting IRS1, IRS2, and RAF1 genes in gestational diabetes mellitus. **MicroRNA** (Sharjah, United Arab Emirates), **01 Jan 2022**, **11(1):57-72**. DOI: 10.2174/2211536611666220413100636
11. D Mohapatra, R Pratap, V Pandey, **Pawan K Dubey**, S Singh, PC Senapati, AS Parmar, AN Sahu. In Vitro Cancer Cell Imaging, Free Radical Scavenging, and Fe³⁺ Sensing Activity of Green Synthesized Carbon Dots from Leaves of Piper longum. **Journal of Cluster Science**. 2022. IF- 3.06
12. Debadatta Mohapatra, Ravi Pratap, Vivek Pandey, **Pawan K Dubey**, Ashish K Agrawal, Avanish S Parmar, Alakh N Sahu. Tinospora cordifolia Leaves Derived Carbon dots for Cancer Cell Bioimaging, Free radical Scavenging, and Fe³⁺ Sensing Applications. **Journal of Fluorescence** 32; 275-292, 2022. **Impact Factor: 2.21**
13. A Ali, A Kumar, **PK Dubey**, V Pandey, A Singh. Unilateral hemihypertrophy syndactyly and hyperpigmentation with mosaic 2q35deletion. **Indian Journal of Dermatology**, 2021 (**Accepted**). IF- **1.49**
14. R Bhushan, A Rani, D Gupta, VK Singh. A Tripathi, **PK Dubey**. Gene expression profile of Human umbilical vein endothelial cells led to the identification of PLAT and HSPA5 as a novel candidate gene of gestational diabetes mellitus: In-silico analysis, **Obstet Gynecol Rep**, 2020; 4(2): DOI: 10.15761/OGR.1000152.
15. D Mohapatra, MB Alam , V Pandey, R Pratap, **PK Dubey**, AK Agrawal, AS Parmar, AN Sahu. Carbon dots from an immunomodulatory plant for cancer cell imaging, free radical scavenging and metal sensing applications. **Nanomedicine (Lond)** Sep 17. 2021 doi: 10.2217/nnm-2021-0190. IF- **5.3**
16. Deepika Bist, AM Pawde, Amarpal, Prakash Kinjavdekar, Reena Mukherjee, KP Singh, Med Ram Verma, Khan

Sharun, Amit Kumar, **Pawan K Dubey**, Divya Mohan, Amit Verma, G Taru Sharma. Evaluation of canine bone marrow-derived mesenchymal stem cells for experimental full-thickness cutaneous wounds in a diabetic rat model. **Expert Opinion on Biological Therapy**. Volume 21, 2021; 1655-1664 **IF- 4.8**

17. R Bhushan, A Rani, A Ali, VK Singh, **PK Dubey**. Bioinformatics enrichment analysis of genes and pathways related to maternal type 1 diabetes associated with adverse fetal outcomes. **J Diabetes Complications**; 2020, 34(5):107556. doi: 10.1016/j.jdiacomp.2020.107556. **IF-2.85**
18. V Pandey, A Tripathi, A Rani, **PK Dubey**. Deoxyelephantopin, a novel naturally occurring phytochemical impairs growth, induces G2/M arrest, ROS-mediated apoptosis and modulates lncRNA expression against uterine leiomyoma. **Biomedicine & Pharmacotherapy**, 2020; 131, e110751. **IF- 7.53**
19. V Pandey, G Tripathi, D Kumar, A Kumar, **PK Dubey**. Novel 3,4-diarylpyrazole as prospective anti-cancerous agents. **Heliyon**, 2020; 6, e04397. **IF-1.65**
20. GG Naik, MB Alam, V Pandey, **PK Dubey**, AS Parmar, AN Sahu. Pink fluorescent carbon dots derived from the phytomedicine for breast cancer cell imaging. **ChemistrySelect**, 2020; 5, 6954 –6960. **IF-2.1**
21. GG Naik, MB Alam, V Pandey, D Mohapatra, **PK Dubey**, AS Parmar, AN Sahu. Multi-functional carbon dots from an ayurvedic medicinal plant for cancer cell bioimaging applications. **Journal of Fluorescence**, 2020; 30, 407–418. **IF-2.21**
22. G Jain, R Bhushan, PK Dubey, P Das. Homology Modelling and Docking Study of SUZ12, A Subunit of PRC2 Complex, With Naturally Occurring Plant Compounds. *International Journal of Pharmaceutical Research*. (09752366) 12 (2). **2020 (SCOPUS)**
23. V Pandey, A Tripathi, **PK Dubey**. Expression and localization of NANOS2 in spermatogonial germs cells (SGCs) during spermatogenesis in rat. **Zygote**. 2019; 27(2), 82-88. **IF-1.44**
24. A Tripathi, V Pandey, AN Sahu, A Singh, **PK Dubey**. Di (2-ethylhexyl) phthalate (DEHP) inhibits steroidogenesis and induces mitochondria-ROS mediated apoptosis in rat ovarian granulosa cells. **Toxicology Research**. 2019; 8, 381-394. **IF-3.54**
25. A Tripathi, V Pandey, AN Sahu, A Singh, **PK Dubey**. Encircling granulosa cells protects against Di (2-ethylhexyl) phthalate (DEHP) induced apoptosis in rat oocytes. **Zygote**. 2019; 27(4), 203-213. **IF-1.44**
26. V Pandey, A Rani, **PK Dubey**. Development and characterization of explant tissue culture system as an *In Vitro* model for uterine leiomyoma (Fibroid) to screen natural compounds. **Journal of Scientific Research**, 2020; 64(1).
27. V Pandey, A Rani, **PK Dubey**. Uterine Fibroid: Isolation, Culture and Characterization. **Journal of Biological Engineering Research & Review**. 2019; 6(2), 27-31.
28. D Singh, T Minocha, S Tripathi ,R Sinha, S Anand, H Birla, VK Pandey, **PK Dubey** et al Analyzing Gene Expression through Real Time PCR while Neo-tissue Regeneration using Developed Tissue Constructs. **Protocols used in Molecular Biology (Bentham Science)**. 2019; 15-34. **(Book Chapter)**.
29. V Pandey, A Tripathi, A Rani, **PK Dubey**. Uterine fibroids and maternal health: early diagnosis, care & management. A Publication of the Indian Society for the Study of Reproduction and Fertility (**ISSRF**), 2019; 22.
30. VK Pandey R Bhusan, **PK Dubey**. Enrichment of rat spermatogonial stem cells based on BSA gradient method. **Paripex - Indian Journal of Research**. 2018; 7, 3.
31. VK Pandey, A Tripathi, R Bhushan, A Ali, **PK Dubey**. Application of CRISPR/Cas9 Genome Editing in Genetic Disorders: A Systematic Review Up to Date. **Genet Syndr Gene Ther**. 2018; 8, 2. **IF-2.34**
32. A Tripathi, **PK Dubey**, VK Pandey, G Tripathi, S Hazarika, K Sairam, AN Sahu. Di-(2-ethylhexyl) phthalate (DEHP) and ovarian physiology: A brief review of therapeutic potential of *Asparagus racemosus* on DEHP-induced toxicity. **Journal of Medicinal Plant & Herbal Therapy Research**. 2018; 6, 9-18.
33. VK Pandey, A Tripathi, **PK Dubey**. CRISPR-Cas9 technology and its application in congenital disorders. **International Journal of Scientific Research**, 2017; 6, 11.
34. A Tripathi, VK Pandey, R Bhushan, AN Sahu, **PK Dubey**. Phthalate and ovarian physiology: A brief review of

- therapeutic potential of Shatavari (*Asparagus racemosus*). *International Journal of Herbal Medicine*. 2017; 5(5), 225-227.
35. R Bhusan, VK Pandey, A Tripathi, **PK Dubey**. Gestational diabetes mellitus (GDM) and birth defects. *Paripex - Indian Journal of Research*. 2017; 6, 12.
 36. Pratheesh M.D., Nitin E. Gade, Amar Nath, **Pawan K. Dubey (2017)**. Evaluation of persistence and distribution of intra-dermally administered PKH26 labelled goat bone marrow derived mesenchymal stem cells in cutaneous wound healing model. *Cytotechnology* 69(6):841-849.
 37. Pratheesh M.D, **Pawan K. Dubey** et al. (2017). Comparative study on characterization and wound healing potential of goat (*Capra hircus*) mesenchymal stem cells derived from fetal origin amniotic fluid and adult bone marrow. *Research in Veterinary Science* 112: 81–88.
 38. **Pawan K. Dubey** and G. Taru Sharma (2016). Nitric oxide and ovarian folliculogenesis: a possible role in follicular atresia. *Asian Australas. J. Anim. Sci.* (In press) DOI: <http://dx.doi.org/10.5713/ajas.15.0831>.
 39. **Pawan K. Dubey**, Amar Nath, Vikash Chandra, G. Saikumar, G. Taru Sharma (2015). Expression of mRNA encoding IGF-I, IGF-II, type-I and II IGF-receptors and IGF-binding proteins-1-4 during ovarian follicular development in buffalo (*Bubalus bubalis*). *Animal Biotechnology* 26: 81–91.
 40. Manjinder Sharma, **Pawan K. Dubey** et al. (2013). Developmental competence of buffalo (*Bubalus bubalis*) pluripotent embryonic stem cells over different homologous feeder layers and the comparative evaluation with various extracellular matrices. *International Journal of Stem Cells* Vol. 6, No. 1; 78-86.
 41. Mohd Matin Ansari, Sreekumar TR, Vikash Chandra, **Pawan K Dubey** et al. (2013). Therapeutic Potential of Canine Bone Marrow Derived Mesenchymal Stem Cells and its Conditioned Media in Diabetic Rat Wound Healing. *J. Stem Cell Research & Therapy* 3; 141-146.
 42. RP Singh, KVH Sastry, **Pawan K. Dubey**, R Agrawal, R Singh, NK Pandey, J Mohan. (2013). Norfloxacin drug induces reproductive toxicity and alters androgen receptor gene expression in testes and cloacal gland of male Japanese quail (*coturnix japonica*). *Environmental Toxicology and Chemistry* 32 (9);
 43. Manjinder Sharma, **Pawan K. Dubey**, Rajesh Kumar, Amar Nath, G. Sai Kumar and G. Taru Sharma (2013). Developmental competence of buffalo (*Bubalus bubalis*) pluripotent embryonic stem cells over different homologous feeder layers and the comparative evaluation with various extracellular matrices. *International Journal of Stem Cells* Vol. 6, No. 1; 78-86.
 44. Pratheesh M.D., Nitin E Gade, Amar Nath, **Pawan K Dubey**, AmarPal, G. Saikumar, Bhaskar Sharma and G. Taru Sharma (2013). Isolation and characterization of caprine mesenchymal stem cells derived from amniotic fluid. *Research in Veterinary Science* 94; 313–319.
 45. NE Gade, MD Pratheesh, A. Nath, **Pawan K. Dubey**, Amarpal, B Sharma, G Saikumar and G Taru Sharma (2013). Molecular and Cellular Characterization of Buffalo Bone Marrow- Derived Mesenchymal Stem Cells. *Reproduction in Domestic Animal* 48; 358-367.
 46. Amar Nath, Veena Sharma, **Pawan K. Dubey**, Pratheesh M. D., Nitin E. Gade, G. Saikumar & G. Taru Sharma (2013). Impact of gonadotropin supplementation on the expression of germ cell marker genes (MATER, ZAR1, GDF9, and BMP15) during in vitro maturation of buffalo (*Bubalus bubalis*) oocyte. *In Vitro Cellular & Developmental Biology* 49, 34-41.
 47. G. Tamilmani, V. P. Varshney, **Pawan K. Dubey** and G.Taru Sharma (2013). Impact of FSH on the profile of steroid hormones and DNA synthesis in buffalo preantral follicles cultured in vitro. *Animal Reproduction* 10; 32-40.
 48. G. Taru Sharma, **Pawan K. Dubey**, Om Prakash Verma, Amar Nath and G. Sai Kumar (2012). Collagen-IV supported embryoid bodies formation and differentiation from buffalo (*Bubalus bubalis*) embryonic stem cells. *Biochemical Biophysical Research Communication* 424, 378-384.
 49. **Pawan K. Dubey**, Vrajesh Tripathi, Ram Pratap Singh and G. Taru Sharma (2012). Expression of nitric oxide synthase isoforms in different stages of buffalo (*Bubalus bubalis*) ovarian follicles: effect of nitric oxide on in vitro development of preantral follicle. *Theriogenology* 77, 280-291.
 50. Om Prakash Verma, Rajesh Kumar, Amar Nath, Manjinder Sharma, **Pawan Kumar Dubey**, G. Sai Kumar, G. Taru Sharma (2012). In vivo differentiation potential of buffalo embryonic stem cell (*Bubalus bubalis*). *In Vitro Cellular and Developmental Biology-Animal* 48, 349-358. IF: 1.1
 51. Manjinder Sharma, Rajesh Kumar, **Pawan K Dubey**, Om Prakash Verma, Amar Nath, G Saikumar and G Taru Sharma (2012). Expression and quantification of Oct-4 gene in blastocyst and embryonic stem cells derived from in vitro produced buffalo embryos. *In Vitro Cellular and Developmental Biology-*

Animal 48, 229-235. IF: 1.1

52. G. Taru Sharma, **Pawan K. Dubey**, Rajesh Kumar, Manjinder Sharma, Amarnath Katiyar and G. Sai Kumar (2012). In vitro culture of buffalo preantral follicles with antral follicles: A comparative study of survival, growth, hormonal regulation and synthesis of DNA. **Zygote** 21 (03), 286-294. **IF: 1.24**
53. G. Taru Sharma, Shiv Prasad, Amar Nath, Sumit Singhal, Nandita Singh, Nitin E. Gade, **Pawan K. Dubey** and G. Saikumar (2012). Expression and characterization of constitutive heat shock protein 70.1 (hspa-1a) gene in in-vitro produced and in-vivo derived buffalo (bubalus bubalis) embryos. **Reproduction in Domestic Animals** 47, 975-983. **IF: 1.606**
54. **Pawan K. Dubey**, Vrajesh Tripathi, Ram Pratap Singh and G. Taru Sharma (2011). Influence of nitric oxide on in vitro growth, survival, steroidogenesis and apoptosis of FSH stimulated buffalo (Bubalus bubalis) preantral follicles. **Journal of Veterinary Science** 12 (3), 257-265. **IF: 1.16**
55. **Pawan K. Dubey**, Vrajesh Tripathi, Ram Pratap Singh and G. Taru Sharma (2011). Influence of nitric oxide on steroid synthesis, growth and apoptosis of buffalo (Bubalus bubalis) granulosa cells in vitro. **Asian Australasian Journal of Animal Science** 24 (9), 1204-1210. **IF: 0.482**
56. G. Taru Sharma, **Pawan K. Dubey** and G. Sai Kumar (2011). Localization and expression of follicle-stimulating hormone receptor in buffalo preantral follicles. **Reproduction in Domestic Animal** 46, 114-120. **IF: 1.606**
57. G. Taru Sharma, **Pawan K. Dubey*** and G. Sai Kumar (2010). Effects of IGF-1, TGF- α plus TGF- β 1 and bFGF on in vitro survival, growth and apoptosis in FSH-stimulated buffalo (Bubalis bubalus) preantral follicles. **Growth Hormone and IGF Research** 20, 319- 325. **IF: 2.229. (*equal contribution)**
58. G. Taru Sharma, **Pawan K. Dubey** and Vikash Chandra (2010). Morphological changes, DNA damage and embryonic developmental competence of in vitro matured, vitrifiedthawed buffalo (Bubalus bubalis) oocytes: A comparative study of two cryoprotectants and two cryodevices. **Cryobiology** 60, 315-321. **IF: 2.13**
59. Rajib Rajhans, G. Sai Kumar, **Pawan K. Dubey** and G. Taru Sharma (2010). Effect of timing of development on total cell number and expression profile of HSP 70.1 and GLUT1 in buffalo (Bubalus bubalis) preimplantation embryos produced in vitro. **Cell Biology International** 34, 463-468. **IF: 1.747**
60. G. Taru Sharma, **Pawan K. Dubey*** and S. K. Meur (2009). Survival and developmental competence of buffalo preantral follicles using three dimensional collagen gel culture system. **Animal Reproduction Science** 114, 115-124. **IF: 1.721. (*equal contribution)**
61. Shail K. Chaube, **Pawan K. Dubey***, Surabhi K. Mishra and Tulsidas G. Shrivastav (2007). Verapamil Reversibly Inhibits Spontaneous Parthenogenetic Activation in Aged Rat Eggs Cultured In Vitro. **Cloning and Stem Cells, Volume 9, Number 4, 615-624. IF: 2.741.**
62. Nitin E. Gade, Amar Nath, Pratheesh M.D., **Pawan K. Dubey**, Amarpal, G. Sai Kumar and G. Taru Sharma (2012). Stem cell therapy in animal sciences-an overview. **Agricultural Review** 33 (2); 150-158.
63. Amar Nath, Veena Sharma, Nitin E Gade, Pratheesh MD, Rohit Kumar and **Pawan K. Dubey.** (2012). Temporal expression of marker transcripts: Key to successful maturation and development of mammalian oocytes. **Veterinary World**, Vol.5 (2); 121-127
64. Pratheesh MD, **Pawan K. Dubey**, Amar Nath, Nitin E Gade, Rajesh Sharma and G. Taru Sharma. (2011). Mesenchymal stem cells and its characterization. **Veterinary World**, vol. 4 (12): 571-574.
65. Nitin E. Gade, Pratheesh M.D., Amar Nath, **Pawan K. Dubey**, Amar Pal and G. Taru Sharma (2012). Therapeutic potential of stem cells in veterinary practice. **Veterinary World**, Vol.5 (8) accepted. (Manuscript Number: 2-1326472703).
66. G. Taru Sharma, **Pawan K. Dubey**, Amar Nath and G. Sai Kumar (2011). Localization and expression of proliferating cell nuclear antigen (PCNA) and cyclin B1 in buffalo (Bubalus bubalis) ovary during different stages of follicular development. **Indian Journal of Animal Science** 81 (3), 231-234. **IF: 0.023**

Full papers in conference proceedings: 3

1. Ravi Bhushan, Vivek K. Pandey, Anima Tripathi and **Pawan K. Dubey** (2018). Gestational diabetes and birth defects: what do we know? What can we do?. A Publication of the Indian Society for the Study of Reproduction and Fertility Issue 21 | February, 2018.
2. **Pawan K. Dubey** and Anima Tripathi. CRISPR/Cas-9 mediated Gene editing: New opportunities for treatment of Genetic disorders. A Publication of the Indian Society for the Study of Reproduction and Fertility Issue 19 | September, 2016.
3. G. Taru Sharma, **Pawan K. Dubey**, G. Singh, M Sarkar and RK Mahapatra (2011). Role of various growth factors during in vitro culture of buffalo preantral follicles. Short course on Recent advances in endocrine control of livestock production and reproduction at P &C Division IVRI, Izatnagar Pp1-4

Book: 1.

Pawan K. Dubey, Anima Tripathi, G. Taru Sharma. Nitric oxide and Ovarian Folliculogenesis. Lambert Academic Publishing Group, Germany, ISSN No. 978-3-659-33318-7

Book Chapter: 2

Pawan K. Dubey, A. Ali and Anima Tripathi. Assisted Reproductive Techniques in Infertility Treatment: Opportunities And Challenges. Springer Verlag, 69121, Heidelberg, Germany, Publication group. **ISSN No. 978-3-319-39328-5**

Pawan K. Dubey, Ram Pratap Singh. Stem cells and drug discovery: novel approaches in human and veterinary therapeutics. RECENT DEVELOPMENTS IN BIOTECHNOLOGY. Vol. 12. Studium Press, LLC, New Delhi.