

Curricular Vitae

Name : Dr.Shiv Prasad,
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Present Address : Prof. & Head, Department Veterinary Gynaecology &Obstetrics,

Residence: C.V.A.Sc.,Pantnagar, U.S.Nagar, Uttarakhand-263145, M: 9411377368, 9919946865

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Academic qualifications:

Exam./Degree	Year of Passing	% of marks/O.G.P.A.	Division
Ph.D.(Gynae.&Obst.)	2000	(5.000/5.000)	I
M.V.Sc.(Gynae.&Obst.)	1986	(4.434/5.000)	I
B.V.Sc.&A.H.(Hons)	1984	(4.408/5.000)	I
Intermediate	1980	72.0%	I
High School	1978	67.8%	I

Professional Experience:

Position Held	From	To
Professor &Head (Gynae. &Obst.)	01.11.22	Cont.
Professor (Gynae. &Obst.)	23.06.20	31.10.22
Professor &Head(Gynae. &Obst.)	21.11.19	22.06.20
Chief Executive Officer, U.P.Livestock Development Board, Govt. of U.P., Lucknow (U.P.)	05.10.18	20.11.19
Professor &Head (Gynae. &Obst.)	20.6.2015	04.10.18
Professor, (Gynae. &Obst.)	22.5 2005	19.6.2015
Associate Professor (Gynae. &obst.)	15-12-2000	21.5. 2005
Assistant Professor (Ganae. &Obst.)	1-2-1996	14-12-2000
Junior Research Officer (Veterinary Sciences),	3-8-1990	31-1-1996
Subject matter specialist (Veterinary Sciences)	11-6-1987	2-8-1990

Administrative Experience:

Position Held	From	To
Professor &Head (Gynae. &Obst.)	01.11.22	Cont.
Professor &Head(Gynae. &Obst.)	21.11.19	22.06.20
Chief Executive Officer, U.P.Livestock Development Board, Lucknow ,Govt.of U.P.	05.10.18	20.11.19
Professor &Head (Gynae. &Obst.)	20.6.2015	04.10.18
Deputy Coordinator (Examination)	2005	2010

Theses Guided:**As Chairman, Advisory Committee:**

Name of Student	ID.No.	Year	Title of Thesis Research	M.V.Sc./Ph.D
1. Dr.Beerendra Singh	25001	2009	Effect of Activin and Leptin inclusion in maturation medium used for invitro culture of oocytes and on expression pattern of Apoptotic and Trophoblastic function genes in Buffalo (Bubalus bubalis) embryos.	Ph.D
2. Dr. Sumit Singhal	32910	2010	Hormonal manipulation of dominant follicle and its effect on superovulation.	Ph.D
3. Dr. Ritu Shah	34252	2010	Molecular cloning and <i>in silico</i> analysis of Pregnancy Associated Glycoprotein (PAG 2) gene in buffaloes.	Ph.D
4. Dr. Subhra Singh	32816	2011	Isolation and characterization of proteins extracted from the oviduct epithelial cells of buffaloes.	Ph.D
5. Dr. Asad Hussain	39233	2012	Follicular dynamics , ovulation, luteal functions and conception rate following hCG administration during estrous cycle in buffaloes.	Ph.D
6.Dr.Shailendra Kishore Sheetal	45532	2017	Follicular development , superovulation and embryo recovery following insulin and insulin like growth factor-1 (IGF-1) treatment during mid luteal phase of estrous cycle in embryo donor and hormonal profile in recipient cattle.	Ph.D
7.Dr.Maleeha Anis Wani	49633	2019	Studies on Bamboo (Bambusa Balcooa) as an alternative therapy for retention of placenta in bovines.	Ph.D
8. Dr.Mohit Mahajan	55531	2022	Studies on pre-pubertal indices in cattle through nutritional intervention under field condition.	Ph.D
9. Dr.Damini Arya	46043	2024	Nutritional Intervention to Hasten Uterine Involution in Sahiwal Cattle.	Ph.D
10.Dr. Navin Kumar	27906	2002	Studies on superovulatory response in Sahiwal and crossbred cows following Human Chorionic Gonadotropin (hCG) and Estradiol pretreatment.	M.V.Sc
11.Dr.Kassahun AsmareWondim		2004	Epidemiology of brucellosis in cattle and its seroprevalence in animal health professionals in Sidama Zone Southern Ethiopia.	M.Sc. (Vety.Sc.)
12.Dr.HunderraSori Ayana		2004	Evaluation of semen parameters in Ethiopian	M.Sc.

			indigenous bulls kept at Kaliti, Artificial Insemination Center, Addis Ababa, Ethiopia.	(Vety.Sc.)
13.Dr.Chetana Gangwar,	26968	2008	Use of nitric oxide synthase inhibitor to minimize early embryonic losses in buffaloes.	M.V.Sc
14.Dr.Sumit Singhal,	32910	2007	Effect of growth factors and antioxidants on developmental competency of buffalo oocytes collected through ultrasound guided Trans-vaginal aspiration.	M.V.Sc
15.Dr.S.K.Ravi	34199	2008	Superovulatory response and endocrine profile following ablation of dominant follicle in buffaloes.	M.V.Sc
16.Dr.Anoop Nautiyal	29115	2010	Ovarian response to varying doses of superovulatory treatment in Buffaloes (<i>Bubalus bubalis</i>).	M.V.Sc
17.Dr. Ashish Kumar Gupta	30056	2010	Studies on improving conception through exogenous administration of human chorionic gonadotropin (hCG) hormone in buffalo (<i>Bubalus bubalis</i>).	M.V.Sc
18.Dr.M.Z.Lattoo	39257	2011	Effect of exogenous administration of GnRH during mid luteal phase of estrous cycle on hormonal profile and conception rate in buffaloes (<i>Bubalus bubalis</i>).	M.V.Sc
19.Dr.Veena Pani Sharma	30087	2011	Studies on physiological and ultrastructural properties of Cervico-vaginal mucus during early pregnancy in buffaloes (<i>Bubalus bubalis</i>).	M.V.Sc
20.Dr.Rahul Katiyar,	40985	2012	Studies on biochemical profile of urine following breeding of buffaloes.	M.V.Sc
21.Dr.Muqtaza Manzoor	32102	2013	Studies on Biochemical profile of urine following breeding of cattle.	M.V.Sc
22.Dr.Rohit Nogai	33048	2013	Studies of behavioral signs of estrus, hormonal profile and ultrasonographic findings to determine onset of estrus, end of estrus, duration of estrus and ovulation time to consequently improve fertility following Artificial Insemination in cows.	M.V.Sc
23.Dr.Muktaza Manzoor	32102	2013	Studies on biochemical profile of urine following breeding of cattle	M.V.Sc
24.Dr.Manik Sharma	44142	2014	Physico-biochemical alterations in urine during early pregnancy in buffaloes.	M.V.Sc
25.Dr.Sameer-ul-Salam	48151	2015	Purification and characterization of bovine urinary proteins during early gestation	M.V.Sc
26. Dr.Ankit Malik	39811	2017	Studies on non-steroidal anti-inflammatory drugs to improve conception following embryo transfer in crossbred cattle.	M.V.Sc
27.Dr.Mayank Maithani	39834	2017	Studies on improving conception following embryo transfer in Sahiwal cattle.	M.V.Sc
28.Dr. Mukesh Sahu	51150	2018	Studies on dietary manipulation with PUFA on embryo production and conception in cattle.	M.V.Sc
29.Dr.Gaurav Singh Tevatia	48239	2024	Studies on structural and hormonal changes in cystic ovarian degeneration in cattle.	M.V.Sc.
30.Dr.Kamesh Kannaujia	51276	2025	Studies on dietary and hormonal intervention for improving fecundity in Pantaja goat.	M.V.Sc.

31.Dr.Yajash Kanyal	52852	2024	In-vitro dynamics of Badri, Sahiwal and Gir cattle fibroblast cells and their Somatic Cell Nuclear Transfer(SCNT) Competence.	M.V.Sc.
32.Dr. Princi Tiwari	52906	2024	Studies On Nutritional Supplementation And Hormonal Manipulation Of Estrous Cycle On Kidding Rates In Pantja Goats.	M.V.Sc.

Theses Guided:

Co-Advisor, Advisory Committee:

Name of Student	ID. No.	Year	Title of Thesis Research	M.V.Sc./ Ph.D
1.Dr.Santosh Kumari	27901	2003	Hormonal induction and synchronization of estrus in post-partum crossbred cows.	M.V.Sc.
2.Dr.Santosh Kumar Yadav	24968	2005	Ultrasound guided trans-vaginal follicular aspiration of buffalo oocytes and in-vitro fertilization.	M.V.Sc.
3.Dr.Gulam Mohammad Ansari	27093	2007	Studies on tubal patency in cattle and buffaloes.	M.V.Sc.
4. Dr.Pushp Sagar	27076	2008	Effect of L-arginine methyl ester (L-name) on life span of corpus luteum in buffaloes.	M.V.Sc.
5. Dr.Rajesh Verma	35602	2009	Studies on maternal recognition of pregnancy in buffaloes.	M.V.Sc.
6. Quazi Inamul Huq	37142	2011	Effect of Insulin administration during luteal phase on progesterone profile and conception rate in buffalo (Bubalus bubalis).	M.V.Sc.
7. Dr.Samar Rahi	31063	2011	Immunotherapeutic effect of Ashwagandha and Garlic on endometritis in repeat breeding crossbred cows.	M.V.Sc.
8. Dr.Mridula Sharma	24214	2012	Studies on hormonal and biochemical profile in insulin treated crossbred cows and its effect on conception rate.	Ph.D
9.Dr.Latesh Bhagat	32057	2012	Studies on Clinico-haemato-Biochemical. Diagnostic and therapeutic management of Canine lower respiratory tract infections	M.V.Sc.
10.Mr. Himanshu Pant	40952	2012	Graphine Oxide based albendazole encapsulated liposome for drug delivery	M.Sc.
11. Mr. Vinay Kumar Belwal	40839	2012	Nano Silica supported Lipid bilayers (Protocells) as a drug vehicle for cancer therapy.	M.Sc.
12. Dr.Amit Kumar	33193	2013	Evaluation of immunomodulatory and therapeutic efficacy of turmeric (curcuma longa) , Neem (Azadirachta indica) and Garlic (Allium sativa)on endometritis in repeat breeding crossbred cows.	M.V.Sc.
13.Ms Surabhi	42533	2013	Synthesis of Graphine Oxide based Nano-vesicles for Cancer Therapy.	M.Sc.
14.Dr.Himani Tiwari	33210	2013	Awareness and adoption of scientific dairy husbandry practices: An analysis of dairy farmers in Tarai region of Uttarakhand.	M.V.Sc.

15.Dr.Mohit Pratap Singh	42786	2013	Studies on Therapeutic Efficacy of Autogenous Mesenchymal Stem Cells in Healing of Excisional Full-thickness Cutaneous Wound in Rabbits.	M.V.Sc.
16.Dr.Aubid Hussain Bhat	35609	2013	Studies on oncolytic effect of NS1 gene of CPV-2 and VP3 gene of CIAV viruses in canine transmissible venereal tumor.	Ph.D
17.Dr.Noore Alam Tufani	41367	2014	Clinico-epidemiological, diagnostic and therapeutic studies on renal failure in canines.	Ph.D
18.Dr.Adita Sharma	33371	2014	Comparative assessment of cryopreserved sperm of Amur Carp and Common Carp.	Ph.D
19. Dr.Hemant Mehra	33221	2014	Epidemiological and clinic-therapeutic studies on <i>Dipylidium Caninum</i> infection in dogs	M.V.Sc.
20. Dr.S.S.D.Sachhan	44089	2014	Characterization of Emetic nut (Madan phal) and its use in treating pubertal anestrus in crossbred heifers".	M.V.Sc.
21. Dr.Sanjay Agarwal	21631	2014	Induction of accessory Corpus Luteum through use of hCG during early estrous cycle in crossbred cattle.	Ph.D
22. Dr Seema	44304	2014	Studies on the therapeutic potential of haematopoietic canine patients.	M.V.Sc.
23.Dr.Ashwani Kumar Verma	34499	2014	Studies on the therapeutic efficacy of Withania Somnifera root extract and its Nano-construct in Healing of Full Thickness Excisional Cutaneous Wound in Rabbit Model.	M.V.Sc.
24. Om Prakash Chaudhary	44079	2015	Osteo-morphological studies on the skull and appendicular skeleton of Indian Black Buck (<i>Antelope cervicapra</i>)	Ph.D
25.Dr.Vaibhav Bisnoi	45670	2015	Clinical evaluation of ender nailing and titanium elastic nailing for repair of long bone fracture in dogs	M.V.Sc.
26.Ms Rajshree Joshi	45596	2015	Graphine Oxide based Chlorambucil encapsulated liposomes for cancer therapy	M.Sc.
27.Miss Pushpa	39863	2017	Clinical study on canine cystic endometrial hyperplasia complex	M.V.Sc.
28.Mr. Khalid Mubarik	49599	2017	Isolation, propagation and characterization of bone marrow derived mesenchymal stem cells and their differentiation into cardiac myocytes in canines.	M.V.Sc.
29. Mr. Devendra Singh Rana	39842	2017	Incidence , etiology, treatment and recovery of dystocia in bovines	M.V.Sc.
30.Mr. Ramkrishan Rana	35833	2017	Characterization of bubaline epididymal spermatozoa stored at 50c in –situ and their storage resistance in modified citrate dilutors.	M.V.Sc.
31. Mr. Moh.Yaqub Bhat	49602	2017	X sperm enrichment of bovine semen by percoll density gradient method and its effect on fertility of semen, sex ratio and conception rate.	M.V.Sc.
32.Dr.Deeksha	41729	2018	Separation of x and y sperms in bovine semen	M.V.Sc.

Chaudhary			and their detection following enrichment	
33.Dr.Meenakshi Rawat	41700	2018	X-sperm enrichment in buffalo bull semen by percoll density gradient	M.V.Sc.
34.Dr.Bimmy Painuly	43580	2019	Isolation and identification of predominant bacteria from genital tract of repeat breeder crossbred cows suffering from subclinical endometritis	M.V.Sc.
35.Dr. Deepa Madhwal	43556	2019	Effect of methyl ergometrine with or without ceftiofur and nutritional supplements on uterine involution and post-partum fertility in crossbred cows	M.V.Sc
36.Dr. Revathy, V.J.	52795	2019	Effect of pre-and post-insemination intrauterine antibiotics on conception rate in crossbred cattle	M.V.Sc
37.Dr.Prachi Sharma	45893	2021	In-silico characterization and epitome profiling of differentially expressed plasma membrane proteins of "X" and "Y" chromosome bearing bovine sperm	M.V.Sc
38.Dr.Damini Arya	46043	2021	In-silico studies on efficacy of various antibacterial drugs against bovine endometritis.	M.V.Sc
39.Dr. Kajal Verma	49767	2023	Comparative evaluation of different combination of ketofal in glycopyrolate and dexmedetomidine pre-medicated dogs.	M.V.Sc
40.Dr.Dhanu Kumar Murasing	56751	2024	Validation of plasma membrane-specific proteins and differential genes of Y-spermatozoa in cattle	Ph.D
41. Dr.Ajay Chaudhary	51307	2025	Studies On Artificial Insemination (Ai) Timing On Conception Following Use Of Sex Sorted Semen In Sahiwal Heifers	M.V.Sc
42.Dr.Preeti Gautam	51277	2025	Effect of estrual cervico-vaginal mucus characteristics on conception in Sahiwal cattle	M.V.Sc
43.Dr.Sonal Joshi	52874	2026	Comparative study on Resiquimod (R484) based X and Y sperm enrichment of bull semen	M.V.Sc
44.Dr.Priya Chaudhary	52882	2026	Characterization of Follicular Dynamics and Superovulatory Response in Badri Cattle	M.V.Sc

Research Projects Undertaken:

Title of the Project	Funding Agency	PI/Co-PI	Under Operation/ Completed
1. Production of elite progenies of Badri cattle of the Himalayan Region through cloning technology.	Uttarakhand Council for Biotechnology, Deptt. of Agriculture, Govt.of Uttarakhand (85.40 lacs):2023-24 to 2024-25.	Principal Investigator	Currently running

	Extended 01.4.2026 - 30-03.2027		
2. Antiluteolytic strategies – a novel approach to enhance fertility in buffaloes.	ICAR (30.66lacs)	Principal Investigator	Completed
3. Transcriptional level of developmentally important genes in buffalo pre implantation embryos.	ICAR(49.44 lacs)	Principal Investigator	Completed
4. Use of elite buffaloes for production of quality embryos in-vitro and their use for genetic improvement.	ICAR (14.73 lacs)	Principal Investigator	Completed
5. Multiplication of high potential dairy animals and production of superior germ plasm involving embryo transfer technology	Govt. of U.P.(15 lacs)	Co-Principal Investigator	Completed
6.Establishment of ovum- pick- up (OPU) technology for in-vitro embryo production in Sahiwal cows and Murrah buffaloes	Department of Biotechnology, Govt. of India, New Delhi (17 Las)	Co-Principal Investigator	Completed
7.Reduction of long post-partum anestrus through hormonal treatments in buffaloes under village conditions	UPCAR, Lucknow (1.22 lacs)	Principal Investigator	Completed
8.Improving reproductive efficiency in cattle and buffaloes under rice- wheat agro-eco system	NATP (ICAR), New Delhi	Co-Principal Investigator	Completed
9.Effect of GnRH and progestins in controlling post-partum anestrus in buffaloes	UPCAR, Lucknow	Co-Principal Investigator	Completed
10.Animal genetic resource biodiversity, characterization of Tarai Buffaloes.	NATP (ICAR), New Delhi. (24.02 Lacs)	Co-Principal Investigator	Completed
11.All India Co-ordinated Research Project on Frieswal (PTU).	ICAR, New Delhi(49.00 lacs)	Co-Principal Investigator	Under Operation
12.Tribal Sub Plan Project on Small Ruminants.	ICAR, New Delhi (42 lacs)	Co-Principal Investigator	Completed
13.Multiplication of Elite Germ Plasm of cattle through Embryo Transfer Technology.	GBPUA&T., Pantnagar (5 Lacs)	Principal Investigator	Completed
14. Establishment of sex sorted semen production facility in U.P. state.	Govt. of UP and Govt. of India (18.63 crores)	CEO/ Principal Investigator	Under Operation
15. Nationwide Artificial Insemination Programme (NAIP) in bovines in Uttar Pradesh	Govt. of India (33.34 crores)	CEO/ Principal Investigator	Under Operation
16. Risk Management and Insurance of livestock in UP (Pashu Sanjivini)	Govt. of India(8.38 crores)	CEO/ Principal Investigator	Under Operation
17. Implementation of Embryo Transfer and IVF Technology, Niblet GLF, Barabanki, U.P.	Govt. of India(3.29 crores)	CEO/ Principal Investigator	Under Operation

Salient Research Achievement/Scientific Breakthrough:

1. First Buffalo calf born through Ovum-Pick-Up technology in the country.

First buffalo calf through Ovum Pick-Up (OPU) technology has been produced on 27th September 2008 at IDF which was named as “SAUBHAGYA” by Union Agriculture Minister Sri Sharad Panwar in presence of Dr. B.S.Bisht, Vice-Chancellor of the University. On this occasion DG, ICAR, Dr. Mangala Rai , DDG, Ag. Extension, Dr. P. Das, Minister of Ag. Uttarakhand , Sri Trivendra Singh Rawat and other dignitaries were present.



Visited by Honorable DDG (Extension), ICAR, New Delhi, Vice-Chancellor, GBPUAT and Dean. CVASc. Pantnagar



A: Calf born through OPU-IVMFC along with his surrogate mother



Buffalo Calf born through Ovum Pick-Up (OPU) and IVMFC Technique was named as “SAUBHAGYA” by the Honorable Union Agriculture Minister, Sri Sharad Panwar on 27.12.2008.

2. High pedigreed calf born through embryo transfer technology at Instructional Dairy Farm, G.B.Pant University of Ag. &Tech., Pantnagar, U.S.Nagar, Uttarakhand in 2018

Three calves; two healthy calves born on 26.1.18 and third on 02.3.18 at Instructional Dairy Farm, Nagla of the University through embryo transfer technology(ETT). The work on ETT is going on under University funded research project (Core research Code-211) “Multiplication of elite germ plasm in cattle

through embryo transfer technology”. Embryo donor cow brand no. 347 was used as embryo donor animal which had 18 liters of peak yield per day. The cow was superovulated by injecting exogenous

hormones and bred with high pedigreed bull semen having 13,849 liters milk producing capacity of Sire’s Dam’s yield per lactation. Two excellent quality of embryos produced from the donor cow were transplanted in surrogate mother AP-220 on 02.5.17 which has delivered two healthy calves on 26.1.18. Progeny’s expected yield capacity would be about 8530 liters of milk per lactation when they will become adult and producing animals’ of tomorrow. It would be significant improvement in the quality of animal. Further, another surrogate mother AP-665 has delivered healthy calf on 02.3.18

Presently, work on Sahiwal cattle is in progress under Core Research Code -211, funded by the University for improving high pedigreed most promising Sahiwal cattle through embryo transfer technology. Six Sahiwal embryos have already been transferred in surrogate mothers in month of January, 2018. Thus, elite animal production through ETT would continue in 2018.

Fig.1 (a).Calves produced through ETT on 26.1.18 at IDF,Pantnagar.



Fig.1 (a).Calves produced through ETT on 26.1.18 at ID,Pantnagar.



Fig.2.(a).Dean, V.A.Sc., HOD, LPM,Joint Director, IDF, PI , AD, IDF inspecting newly born calves.

Publications:

1. Dhanu Kumar Murasing, Sofi Imran Ul Umar, Souman Naskar, Shashi Kumar, Vijai Pal Bhadana, **Shiv Prasad**, Sujay Rakshit, Dinesh Pandey, A.K.Verma and Mridula Sharma (2025). Differentially expressed genes in X- and Y-spermatozoa of *Bos indicus* bulls. *Discover Animals*, 2:90 (<https://doi.org/10.1007/s44338-025-00069-8>).
2. Daminy Arya, **Shiv Prasad**, Mridula Sharma, Sunil Kumar and R.Goswami (2024). Specific supplemental feeding of Sahiwal cows and their effect. *International Journal of Advanced Biochemistry Research*, 8 (6):317-321
3. **Shiv Prasad**, Sunil Kumar (2023). Improving Animal Production, Productivity and Economic gain to the Farmers through Increasing Coverage of Artificial Insemination in India. *The Indian Journal of Animal Reproduction*, 43(1):1-7 (NAAS: 4.12)
4. Mohit Mahajan, **Shiv Prasad**, Vipin Singh, Gourav S Tevatia and Prashant Verma (2022). Prolonged gestation due to Mummified fetuses in conjunction with normal fetus in Barbari Doe. *Indian Journal of Veterinary Sciences and Biotechnology*, 18(2): 149-150. (NAAS: 5.58)

5. Mahajan, M, **Prasad, Shiv.**, Singh, V., Arya, D. (2022). Fetal anasarca in Himalayan Sheep dog. *Indian Journal Veterinary Science and Biotechnology*, 18 (1):127-128. (NAAS: 5.58)
6. Mukesh Sahu, **Shiv Prasad**, Sudhansu Pratap Singh and Avaneesh Kumar Singh (2021). Comparison between concentrations of cholesterol and progesterone of pregnant and non-pregnant recipients' cattle in studies including flax seed supplementation and embryo transfer. *International Journal of Current Microbiology and Applied Sciences*, 10 (2):1-6.
7. Mukesh Sahu, **Shiv Prasad**, Sunil Kumar and Satish Kumar (2020). Effect of dietary supplementation with PUFA on blood glucose, Cholesterol, progesterone concentration and conception rate following embryo transfer in cross bred recipient cows. *Haryana Veterinarians*, 59 (2):210-212. (NAAS: 5.58)
8. Sunil Kumar, **Shiv Prasad**, Chandni Bahuguna, Souvik Dhara, Vishaka Sharma and Arup Kumar Das (2020). Management of chronic hyperplasia cum cervico –vaginal prolapsed in cattle: a case study, *Indian Veterinary Journal*, 97(10):30-32. (NAAS: 4.93)
9. Sanjay Agarwal, Harihar Prasad Gupta, **Shiv Prasad**, Pawan Kumar Verma, Afroza Khanam, Firdous Ahmad Khan (2021). Effect of various hCG treatment protocols on luteal characteristics, plasma progesterone concentration, and pregnancy in normal cyclic Indian crossbred dairy cows. *Tropical Animal Health and Production*, 53:220-226. (NAAS: 7.89)
10. Sumit Singhal, **Shiv Prasad**, Rajesh Verma, H.P.Gupta and J.K.Prasad (2021). Superovulatory response and progesterone profile in Murrah buffaloes (*Bubalus bubalis*) pretreated with GnRH agonist. *Indian Journal of Animal Research*, 55(7):763-766. (NAAS: 6.43)
11. G.Taru Sharma, Amar Nath, **Shiv Prasad**, Sumit Singhal, Vikash Chandra, Gutulla Saikumar (2020). Expression pattern of GLUT1,5,8 and citrate synthase transcripts in buffaloes (*Bubalus bubalis*) pre-implantation embryos produced in vitro and derived in vivo. *Reproduction in Domestic Animal*, 55 (10): 1-21. (NAAS: 7.86)
12. Prashant Tiwari, H.P.Gupta, **Shiv Prasad** and S.K.Sheetal (2020). Effect of different surgical approaches in dystocia on different haematological parameters before and after caesarean section in cows. *Veterinary Research International*, 8 (3): 277-284. (NAAS:)
13. Ankit Malik, **Shiv Prasad**, Sunil Kumar, Mayank Maithani and H.P.Gupta (2019). Effect of Flunixin Meglumine on conception rate following embryo transfer in crossbred cattle. *The Indian Journal of Animal Reproduction*, 40(2): 52-54. (NAAS:4.13)
14. Ankit Malik, **Shiv Prasad**, Sunil Kumar, Mayank Maithani and H.P.Gupta (2019). Effect of Flunixin Meglumine on blood biochemical profile in embryo recipient crossbred cows. *Indian Vet J.*, 96(5): 40-43. (NAAS: 4.93)
15. Prashant Tiwari, H.P.Gupta, **Shiv Prasad** and S.K.Sheetal (2019). Effect of different surgical approaches on various physiological parameters before and after caesarean section in cows suffering from dystocia. *International Journal of Science, Environment and Technology* 8(4): 928-937. (NAAS:)

16. Mukesh Sahu, **Shiv Prasad**, Sunil Kumar and H.P.Gupta (2019). Effect of PUFA on superovulatory response, embryo quality, embryo recovery and conception rate in cattle. *International Journal of Livestock Research*, vol 9(10): Pp 49-55. (NAAS:)
17. **Shiv Prasad**, Sunil Kumar and Chandani Bahuguna (2019).Induction of foaling in Mare with prolonged gestation. *Intas Polivet* 20(2): 363-365. (NAAS: 3.95)
18. R.Rautela, G.K.Das, **Shiv Prasad**, A.Kumar, Abhishek, K.Narayanan and J.K.Prasad (2018).Isolation and identification of uterine bacteria associated with endometritis in cows. *Indian Journal of Animal Reproduction*39 (2): 47-49. (NAAS:4.13)
19. Bhoopendra Singh, H.P.Gupta, **Shiv Prasad** and G.K.Singh (2018). Effect of uterine defense modulation on recovery and conception rate in endometritic repeat breeding crossbred cows. *International Journal of Current Microbiology and Applied Sciences* 7:105-116.
20. S. K. Sheetal, **Shiv Prasad** and H. P. Gupta (2018). Effect of insulin or insulin-like growth factor-I administration at mid-luteal phase of the estrous cycle during superovulation on hormonal profile of Sahiwal cows. *Veterinary World*, (12): 1736-1741. (NAAS: 4.83)
21. S.K. Sheetal, **Shiv Prasad** and H.P. Gupta (2018). Extra-uterine pregnancy in Murrah Buffalo – a rare case report, *Buffalo Bulletin*, Vol.37 (4)591-595. (NAAS: 6.20)
22. Amit Kumar,H.P.Gupta and **Shiv Prasad** (2018).Studies on immunomodulatory and therapeutic efficacy of turmeric (*Curcuma longa*) on endometritis in repeat breeding crossbred cows. *International Journal of Agriculture Science*,10 (2): Pp 5000-5002.(NAAS:4.73)
23. S.K.Sheetal, **Shiv Prasad** and H.P.Gupta (2017). Impact of Insulin or Insulin like growth factor-1 administration during mid luteal phase of estrous cycle on in vivo embryo production in Sahiwal cattle. *The Indian Journal of Animal Reproduction* 39(1): 28-30. 9 NAAS:4.13)
24. Anoop Singh, Mridula Sharma, **Shiv Prasad**, Yaqoob Bhat, Anil Kumar, Dinesh Pandey and Santosh Shukla (2017). Effect of supplementation of Butylated Hydroxy toluene on post-thaw viability, motility and membrane integrity of crossbred bovine spermatozoa. *International Journal of Livestock Research* April 5: 93-95.(NAAS:)
25. Rupali Rautela, G K Das, **Shiv Prasad**, Avadhesh Kumar, J K Prasad,S K ghosh and naveen kumar(2017).*In-vitro* antibacterial potential of aqueous and ethanolic extract of *Aegle marmelos* and *Murraya koenigii* leaf on the bacterial strains isolated from endometritic cows. *Indian Journal of Animal Sciences* 87 (7): 844–845. (NAAS:6.29)
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52. Mayank Maithani, **Shiv Prasad**, Sunil Kumar and Ankit Malik (2018). Studies on application of non-steroidal anti-inflammatory drug for improving conception following Sahiwal embryo transfer in crossbred cows. Presented in National Conference on “ Use of reproductive technologies and production improvement in livestock species aiming to socio-economic development of rural mass” at West Bengal University of Animal &Fishery Sciences, Kolkata on 9-11 Feb.2018: Pp 98.
53. S.K.Yadav, **Shiv Prasad**, A.P.S.Aswal,Keshav Kumar, M.P.Singh, Alok Kumar, Meher Singh and Brijesh Kumar (2019). Comparative efficacy of Folltropin and Stimufol in production of embryo in indigenous cattle (Sahiwal). Proceeding of the 35th Annual Convention of The Indian Society for Study of Animal Reproduction and International Symposium on “Global perspectives to enhance livestock fertility through modern reproductive techniques for doubling farmers income w.e.f. 18-20 Dec, 2019 at Namakkal, Tamil Nadu Veterinary and Animal Sciences University, Chennai.
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Development: Issues, Strategies and Way Forward” at Banda Agriculture University , Banda, U.P. w.e.f.9-11 Jan. 2020.

55. **Shiv Prasad** (2021). International Symposium on Novel knowledge, Innovative Practices and Research in Theriogenology organized by ISSAR and College of Veterinary and Animal Sciences University, Thrissur w.e.f. 27-29 December, 2021.
56. **Shiv Prasad** (2020). Overview of sexed semen and its importance in animal reproduction and productivity. Workshop on judicious use of sexed semen in field conditions to achieve project objectives, UPLDB, Lucknow on 20.6.2020
57. **Shiv Prasad** (2022). Considerations in Artificial Insemination for improving conception rates in bovines. Workshop/refresher course for MAITRI, organized by Uttarakhand Livestock Development Board, Dehradun at Amardeep Hotel, Haldwani, Nainital on 22.2.22.
58. **Shiv Prasad**, Mohit Mahajan, C.B.Singh, S.Kumar and S.Tiwari (2022).Effect of specific nutritional intervention on various reproductive indices in Frieswal cattle under field conditions.Presented in 37th ISSARCON and National Symposium on “ Optimizing animal reproduction through recent techniques of biotechnology, nutraceuticals and alternative medicines”held at Nanaji Deshmukh Veterinary Science University, Jabalpur w.e.f.16-18 Nov.,2022.Book of Abstracts,P: 34.
59. Arya, Damini, Mridula Sharma, **Shiv Prasad**, Govrav Singh Tevatia and Shashank Singh Bisht. (2022).In silico studies on antibacterial property of Tulsi(*Ocimum sanctum*) and Aloe Vera (*Aloe barbadensis miller*) against bacterial bovine endometritis.Presented in 37th ISSARCON and National Symposium on “ Optimizing animal reproduction through recent techniques of biotechnology, nutraceuticals and alternative medicines” held at Nanaji Deshmukh Veterinary Science University, Jabalpur w.e.f.16-18 Nov.,2022.Book of Abstracts,P: 36.
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61. **Shiv Prasad** and Sunil Kumar (2022).Improving animal production, productivity and economic gain to the farmers through increasing coverage of artificial insemination (A.I.) in India. Presented in 37th ISSARCON and National Symposium on “Optimizing animal reproduction through recent techniques of biotechnology, nutraceuticals and alternative medicines” held at Nanaji Deshmukh Veterinary Science University, Jabalpur w.e.f.16-18 Nov.,2022.C.R.Sane Oration.
62. **Shiv Prasad** (2022).Participated in Australia-India Council Sponsored International Workshop on “Sustainable Livestock Production under Climate Change” during 21-22 December, 2022. Organized by ICAR-Indian Veterinary Research Institute, Izatnagar, U.P., India in collaboration with University of Melbourne, Australia.
63. **Shiv Prasad** (2023).Presented a paper on “Management of infertility in bovines” during second biotechnology conclave at Biotechnology Bhawan, Haldi, U.S.Nagar, Uttarakhand on 15,3,2023.
64. **Shiv Prasad** (2023).Presented paper in 7th International Conference on “Innovative Approaches in Basic and Applied sciences for Societal Development” organized by Scientific, Educational Research

Society (SERS) at College of Basic Sciences and Humanities, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand w.e.f.24-25 March, 2023.

65. **Shiv Prasad** (2023).Presented paper entitled “Diversification of agriculture through livestock for sustainability and higher profitability” in National Symposium on Sustainable Mountain Agriculture: Challenges and Opportunities for Achieving Zero Hunger and Nutritional Security w.e.f.5-6 July, 2023 at ICAR-Vivekanand Parvitiya Krishi Anusandhan Sansthan, Almora, Uttarakhand.

66.**Shiv Prasad** (2023).Presented paper entitled “Livestock production: a key to enhance resilience of farmers of Uttarakhand” on Climate Smart Agriculture (CSA) organized jointly by G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand and Uttarakhand Gramin Vikash Samiti (UGVS) w.e.f.4-6 october, 2023.

67.**Shiv Prasad** (2023).Presented paper entitled “Reproductive health of animals” during dairy farmers-Scientist Meet organized jointly by General Bipin Rawat Research School on Hill Development, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand and College of Veterinary and Animal Sciences, Pantnagar) on 10.10. 2023.

68. Gourav Singh Tevatia, **Shiv Prasad**, Sunil Kumar and Mridula Sharma (2023).Presented paper on “Structural and hormonal changes in cystic ovarian degeneration (COD) following various treatment protocols during hot and humid climate in cattle during 38th Annual Convention of Indian Society for Study of Animal Reproduction (ISSAR) and International Symposium on “ Frontiers in Theriogenology: Research and Practice” w.e.f. 6-8 Dec.,2023 organized by Department of Animal Reproduction, Gynaecology &Obsterics, C.V.A.Sc., Kerala Veterinary and Animal Science University, Manuthy,Kerala.

69. Damini Arya,**Shiv Prasad**, Mridula Sharma, Sunil Kumar, Shive Kumar and A. K. Das (2024).Presented research paper on “Studies on ameliorating oxidative stress with nutritional interventions in post partum Sahiwal cows” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:49

70. Damini Arya,**Shiv Prasad**, Mridula Sharma, Sunil Kumar, Shive Kumar and A. K. Das (2024).Presented research paper on “Relationship between serum hydroxyproline level and uterine involution in Sahiwal cattle following nutritional intervention” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:45

71. Priya Cahaudhary, Yajash Kanyal, Sonal Joshi, Princi Tiwari, Ajay Chaudhary, Kamesh Kannaujia, Sunil Kumar and **Shiv Prasad**_(2024).Presented research paper on “Clinical management of dystocia due to incomplete dilatation of cervix in bovines” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing

reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:78

72. Sonal Joshi, Yajash Kanyal, Priya Cahaudhary, Princi Tiwari, Ajay Chaudhary, Preeti Gautam, Mridula Sharma and **Shiv Prasad** (2024). Presented research paper on “Iodine deficiency induced pregnancy toxemia like syndrome in a Doe: A case report of multi fetal,prolonged gestation and congenital goiter” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:239.

73. Ajay Chaudhary, Sonal Joshi, Yajash Kanyal, Priya Cahaudhary, Princi Tiwari, Ajay Chaudhary, Preeti Gautam, Mridula Sharma and **Shiv Prasad** (2024). Presented research paper on “Dystocia in buffaloes due to rare form of perosomus elumbis: a case study” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:240.

74. Yajash Kanyal, Sonal Joshi, Yajash Kanyal, Priya Cahaudhary, Princi Tiwari, Ajay Chaudhary, Preeti Gautam and **Shiv Prasad**_(2024). Presented research paper on “Specific clinical findings and management of bovine fetal mummification: a case report” during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024. Compendium of lead papers and Abstracts,P:242.

75. Shiv Prasad (2025). Delivered training lecture on “repeat breeding and GPG protocols for improving fertility in bovines at Technical Executives Training Program, organized by C.V.A.Sc., G.B.Pant University of Agriculture &Technology, Pantnagar on 15.4.25

76. Shiv Prasad (2025). Delivered training lecture on “Breed Improvement and Government Schemes for Enhancing milk production”, organized by Department of Agrometeriology, College of Agriculture,G.B.Pant University of Agriculture &Technology, Pantnagar on 18.12.2025.

77. Shiv Prasad,Naresh L Selokar, M.K.Singh, Sunil Kumar, Sanjay Kumar and M.S.Chauhan (2025). Production of cloned embryos through Hand Made Cloning(HMC) technique in Badri cattle of Himalayan region. Compendium of Abstract on Animal Reproduction in Changing World: Addressing Challenges and Embracing Opportunities, Dec.10-12, 2025 at Department of Veterinary Gynaecology &Obstetrics, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry-605009, India. Pp:99.

78. Shiv Prasad,Kamesh Kannaujia, Ripusudan Kumar, Mridula Sharma,Sunil Kumar, Arup Kumar Das(2025). Enhancing Reproductive Performance Following Nutritional and

Hormonal Intervention in Pantja Goats. Compendium of Abstract on Animal Reproduction in Changing World: Addressing Challenges and Embracing Opportunities, Dec.10-12, 2025 at Department of Veterinary Gynaecology &Obstetrics, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry-605009, India. Pp: 178.

Semi Technical Articles:

1. S.K.Sheetal, **Shiv Prasad** and H.P.Gupta (2016).Abortion in bovines; causes and its remedial measures. Kisan Bharti, January: 17-18.
2. S.K.Sheetal, Shiv Prasad and H.P.Gupta (2015).Advances in sperm sexing technologies and their uses. Indian Farmer Digest 2(7): 565-569
3. H.P.Gupta , S.K.Sheetal and **Shiv Prasad** (2015). Environment and its role on hormones of reproductive animals. Compendium on technical training, Department of Animal Husbandry, Jharkhand, Ranchi 28-30, January: Pp:1-5.
4. Rahul Singh, H.P.Gupta and **Shiv Prasad** (2014). Care and management of cow and buffalo at the time of calving.Kisan Bharti,Vol.45(4) PP: 10-11.
5. Rohit Nogai, **Shiv Prasad** and H.P.Gupta (2014). Importance of Artificial Insemination in Animal Husbandry.Kisan Bharti,Vol.45(7) PP: 34-35.
6. Amit Kumar, H.P.Gupta and Shiv Prasad (2013). Care and management of calf and dam. Kisan Bharti (02): 38-40
7. **Shiv Prasad** and J.K.Prasad (2010).Management of cow during and after parturition. Pantnagar Kisan Diary, ATIC, Pantnagar, U.S.Nagar , Uttarakhand. Pp: 238-240.
8. J.K.Prasad and **Shiv Prasad** (2010).Abortions in Animals. Pantnagar Kisan Diary (2010-11), ATIC, Pantnagar, U.S.Nagar , Uttarakhand. Pp: 241-243.
9. J.K.Prasad and **Shiv Prasad** (2006). Procedures used in the management of dystocia in bovines. Indian Farmer's Digest, 39(8): 39-42.
10. J.L.Singh, M.C. Sharma, S.P.Pachauri, **Shiv Prasad** and G.C. Gupta (2001). Recent trends of envenomation in animals. INTAS Polivet 2 (1) 106-111.
11. **Shiv Prasad** and S.N.Maurya (2001). Problems of infertility in animals: cases and solutions .Kisan Bharti . 16-18.
12. **Shiv Prasad** and S.N.Maurya (2001) .Current strategy towards treatment and control of infertility and other genital disorders in bovines. Kisan Bharti.
13. **Shiv Prasad** (1998). Repeat breeding syndrome in cattle and buffaloes. Indian Farmers Digest 30 (3) 19-20.
14. S.C.Tripathi, **Shiv Prasad** and Bhadula S.K. (1998). Use of hormones to improve productivity of livestock. Kheti Sansar. (10) .29-30.
15. S.N.Maurya and **Shiv Prasad** (1997). Prospect of embryo transfer technology in genetic improvement for white revolution. Indian Farmers Digest 30 (10): 39-40.
16. **Shiv Prasad** (1996).Status of buffalo husbandry (Murrah) under village conditions. Indian Farmer's Digest. Vol. XXIX, No. 1.29-33.
17. **Shiv Prasad** (1989). Bulletin on the incidence of livestock diseases in the different District of Western plain zone, U.P.
18. **Shiv Prasad** (2017).Training manual sheep and goat rearing in Hill .Reproduction and reproductive disorders in goat, Pp: 22-29.

Books:

1. Competitive Animal Reproduction, Published by M/S Jaya Publication House, Publisher and Distributors, Rohini, New Delhi, First edition in 2021, Pp:1-124 (ISBN:978-93-90611-66-9) by **Shiv Prasad** and Sunil Kumar.
2. Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:1-282 (ISBN:978-93-90049-05-9) by **Shiv Prasad** and Sunil Kumar.
3. Dudharu Pashuo Ka Prabandhan (Management of Milking Animals) published by Agricultural Technology Information Center, Directorate of Extension, G.B.Pant University of Agriculture & Technology, Pantnagar, Udham Singh Nagar, Uttarakhand by J.K.Prasad and **Shiv Prasad**, Pp:1-112.

Manuals:

1. Gynaecology and Obstetrics (Clinics)
2. Andrology and Artificial Insemination (Clinics)

Chapters in Books:

1. Embryo Transfer Technology in: Biotechnology in Medicine and Agriculture, principles and practices (2013). I.K. International Publishing House Pvt Ltd, New Delhi. Pp: 628-663.
2. Pre-pubertal, post-partum and summer anestrus in buffaloes, Bubaline Theriogenology, International Veterinary Information Service (IVIS), P.O.Box 4371, Ithaca, New York, edited by Irma Revah, 2014.
3. Causes of infertility, their remedies with special emphasis on nutritional and management aspects. In: Innovative Approaches in Livestock Development, Published by BAMEITI, Jagdepath, Patna. 1st edition, 2010. Pp:86-98
4. First buffalo calf born through Ovum Pick-UP (OPU) Technology in the Country: A success story.
5. A journey to “**SAUBHAGYA**”: First OPU buffalo calf of the country.
6. Innovative Approaches to Augment Fertility in Bovines.
7. Editor, Manual for Refresher Course on “Fertility Management Through Modern Approaches in Animal Reproduction including ETT and Repeat Breeding in Bovines” Department of Veterinary Gynaecology and Obstetrics, C.V.A.Sc., GBPUA&T., Pantnagar, U.S.Nagar, Uttarakhand Pp1-204.
8. Editor, Refresher Course on “Enhancing Conception rate Through Strategic Approaches in Animal Reproduction” Department of Veterinary Gynaecology and Obstetrics, C.V.A.Sc., GBPUA&T., Pantnagar, U.S.Nagar, Uttarakhand Pp1-309.
9. Reproductive diseases in swine (2018): Modern Swine Production and treatment, Krishi Gyan Ganga, Astral International (Pvt.) Ltd, New Delhi-110 002. Pp: 141-146.
10. **Shiv Prasad** (2020). Major causes of abortion in Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:70-73 (ISBN:978-93-90049-05-9)
11. **Shiv Prasad** (2020). Artificial Insemination (AI) and genetic improvement in bovines Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:74-78 (ISBN:978-93-90049-05-9)
12. **Shiv Prasad** (2020). Importance of biosecurity measures in Animal Reproduction Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:79-82 (ISBN:978-93-90049-05-9)
13. **Shiv Prasad** (2020). Heat detection methods in cattle and buffaloes in Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:83-85 (ISBN:978-93-90049-05-9)
14. **Shiv Prasad** (2020). Heat detection and correct time of breeding in bovines Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near

- Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:86-90(ISBN;978-93-90049-05-9)
15. **Shiv Prasad** (2020). Measures to obtain maximum fertility in bovines Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:91-95(ISBN;978-93-90049-05-9)
 16. **Shiv Prasad** (2020). Collection of history , technique of insemination and Standard Operating Procedures for Artificial Insemination in bovines Multipurpose Artificial Insemination Technician in Rural India, Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2020-21, Pp:96-102(ISBN;978-93-90049-05-9).
 17. **Shiv Prasad** (2021).Concentration or density of spermatozoa in semen. Tutorials in Veterinary and Animal Sciences. Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2021, Pp:483-485(ISBN;978-81-952124-05-3).
 18. **Shiv Prasad** (2021).Semen dilution in bovines. Tutorials in Veterinary and Animal Sciences. Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2021, Pp:486-487(ISBN;978-81-952124-05-3).
 19. **Shiv Prasad** (2021).Canine estrous cycle. Entrepreneurship Development in Veterinary and Animal Sciences(ICAR SC SP Scheme).Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2021, Pp:301-303.
 20. **Shiv Prasad** (2021).Pregnancy and whelping in canines. Entrepreneurship Development in Veterinary and Animal Sciences(ICAR SC SP Scheme).Published by M/S Ocean Publication, near Hanuman Temple Chah Sotiyan, Rajdwara, Rampur, U.P., 2021, Pp:315-316.
 21. **Shiv Prasad** (2023). “Livestock production: a key to enhance resilience of farmers of Uttarakhand” In: Climate Smart Agriculture (CSA) Edited by Ajeet Singh Nain and Anil Kumar, Directorate of Research, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand. ISBN:978-81
 22. **Shiv Prasad and M.S.Chauhan** (2023). “Empowering women through improving and strengthening animal husbandry in Uttarakhand” In: “Women empowerment and mountain development” Edited by Manmohan Singh Chauhan and Ajeet Singh Nain, Directorate of Research, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand. ISBN:978-81-963298-3-9
 23. **Shiv Prasad and Sunil Kumar** (2024). Reproductive management in goats. Labhdayak Bakari Palan ke Vaighyanic Siddhant, published by Ocean publication,Chah Sotiyan, Miston Ganj, Rampur-244901, U.P. ISBN:978-93-91664-88-6.
 24. **Shiv Prasad and M.S.Chauhan** (2024). Diverse horizons of animal husbandry practices towards better contribution for developed India. In: Diverse horizons of Agriculture for Developed India.P:1-16.

Membership of Professional Societies:

1. Life member of Indian Society for the study of Animal Reproduction, Chennai, Tamil Nadu.
2. Life member of Indian Society for Veterinary Immunology and Biotechnology, Chennai, Tamil Nadu.
3. Member of society for the study of fertility, Cambridge,U.K.
4. Life member of Indian Society for Advancement of Canine Practice, Lucknow, U.P.
5. Life member of Veterinary Alumni Association, Pantnagar
6. Life member, National Academy of Dairy Science (India)

Honours/Awards:

1. **President**, Indian Society for study of Animal Reproduction (ISSAR), w.e.f. 17.11.2022 to 31.12.2025.
2. **Fellow**, National Academy of Dairy Science (India).ICAR-National Dairy Research Institute, Karnal-132001(2024). Awarded on 09.4.24 at DUVASU, Mathura, U.P.
3. **Chairman**, C.R.Sane Oration Session during National Symposium of 39th Annual Covention of the Indian Society for Study of Animal Reproduction(ISSAR) on “Challenges in Enhancing Reproductive Efficiency of Livestock: An Indian Perspective, GADVASU, Ludhiana, Punjab w.e.f.Nov.29- Dec1, 2024.
4. **Chairman**, University Central Purchase Committee and University Rate Contact, G.B.Pant University of Agriculture &Technology, Pantnagar, U.S.Nagar, Uttarakhand w.e.f. 01.8.2024 to (Cont.).
5. **Chairman**, Assessment Committee (Group-I to Group-II, ICAR- Central Sheep and Wool Research Institute, Avikanagar, Malpura, Rajasthan, 24.8.23
6. **Fellow**, Scientific, Educational Research Society (SERS) during 7th International Conference on “Innovative Approaches in Basic and Applied sciences for Societal Development” organized at College of Basic Sciences and Humanities, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar ,Uttarakhand w.e.f.24-25 March, 2023.
7. **Member**, Research Advisory Committee, Uttarakhand Council for Biotechnology, Department of Agriculture, Govt. of Uttarakhand, Biotech Bhawan, Haldi, U.S.Nagar (Ref.UCB/HLD/91 Dated 23.05.2023).
8. **Member**, Assessment Committee (Group-I to Group-II, ICAR- National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru (Karnataka), 10.11.2023
9. **C.R.Sane Oration Award (2022)**. Honored during 37th ISSARCON and National Symposium on “Optimizing animal reproduction through recent techniques of biotechnology, nutraceuticals and alternative medicines” held at Nanaji Deshmukh Veterinary Science University, Jabalpur w.e.f.16-18,2022.C.R.Sane Oration.
10. **Fellow**, Society for Scientific Development in Agriculture and Technology Awarded during 7th International Conference in Hybrid mode on “Global Research Initiatives for Sustainable

Agriculture and Allied Sciences (GRISAAS-2022) organized from 21-23 November, 2022 held at Birsa Agricultural University, Kanke, Ranchi, Jharkhand, India.

11. **Chairman**, Assessment Committee (Group-I to Group-II, ICAR- Central Sheep and Wool Research Institute, Avikanagar, Malpura, Rajasthan, 12.9.22
12. **Life Time Achievement Award 2020** “Pashudhan Prahari” Ram Lal Memorial National Animal Welfare Award. Awarded for outstanding contributions to Animal Welfare in the country.
13. **General Secretary**, Indian Society for study of Animal Reproduction (ISSAR), for three consecutive terms w.e.f. 2010 to 2019.
14. **G.B.Singh Memorial Award-2017** during 33rd Annual Convention of Indian Society for Study of Animal Reproduction and National Symposium on “Use of Reproductive Technologies and Production Improvement in Livestock Species Aiming to Socio –economic Development of Rural Mass” held at Kolkata w.e.f.9-11 Feb. 2018.
15. **Best research paper award-2016** on “revisiting reproductive strategies to enhance conception rate in bovines under field conditions “ National conference on Hill Agriculture in Perspective organized by G.B.Pant University of Ag.&Technology, Pantnagar, U.S.Nagar, Uttarakhand w.e.f.26-28 Feb. 2016 at Pantnagar. Pp: 440.
16. Awarded **Dr.N.C.Sharma award-2013** during 29th annual Convention of Indian Society for Study of Animal Reproduction and National Symposium at Nagpur, January 8, 2013.
17. **Best Poster Award** in International Buffalo Conference on optimizing Buffalo Productivity through Conventional and novel technology, Feb 1-4, 2010, National Agricultural Science Complex, New Delhi.
18. Awarded **Best Research Paper** presentation in 17th annual convention and National Seminar on Fertility Management of Farm Animal under Adverse Agro Climatic Condition organized by Indian Society for Study of Animal Reproduction. Oct. 6-8, 2001. Jodhpur.

19. **Best Teacher Award** conferred on 02-03-2002 by Vice Chancellor, G.B.Pant University of Ag. & Tech. Pantnagar. U.S. Nagar, Uttaranchal.

20. Awarded **Dr. Swaminath Iyer Award** for best research paper for the year 1998 by Indian Veterinary Association, Chennai.

International Assignment:

Position	Employer	From	To
1. Associate Professor, Faculty of Veterinary Medicine, Addis Ababa University, Ministry of Education, Govt. of Ethiopia.	Ministry of Education , Govt. of Ethiopia	06- 12- 2002	21-07-2004
2. Visited United States of America as Chief Executive Officer, U.P. Livestock Development Board and took part in International Conference on production and future use of sexed semen in bovines.	Govt. of Uttar Pradesh, Lucknow	16.9.2019	24.9.2019
3. Visited Saint Petersburg State University of Veterinary Medicine, Russia	G.B.U.A&T., Pantnagar, U.S.Nagar, Uttarakhand	13.4.2026	22.4. 2026

Seminar/Symposium/Workshop/Conferences Attended:

1. National symposium and XIV annual convention of ISSAR on “Recent advances for enhancement reproductive efficiency in farm animals. Veterinary College, Bidar (Karnataka) Nov.14 - 16, 1997
2. National symposium on Animal Biotechnology. College of Veterinary Sciences, Pantnagar, U.P. Dec. 4-6, 1996.
3. National symposium on prospect of Agriculture and Animal Science Research in 21st Century. IVRI, Izatnagar, U.P. Dec. 4-5, 1995.
4. National symposium on modern trends in reproductive health care for enhancing livestock fertility and productivity. Punjab Rao Krishi Vidyapeeth, Akola (Maharastra). Jan. 13-15, 1995.
5. National symposium on Role on Science and Technology in overall rural development. Chhoturam P.G.College, Muzaffarnagar, U.P. March 17-19, 1994.
6. National symposium on Role of theriogenology for augmenting fertility in domestic animals Salt Lake City, Calcutta, West Bengal. Dec. 23-25, 1993.
7. National symposium and XV annual convention on Biotechnology in optimizing fertility in farm animals. Feb. 10-12, 1999. Punjab Agriculture University, Ludhiana.
8. International Conference of sustainable animal production, health and environment: Future challenges. Nov. 24-27, 1999.CCS Haryana Agriculture University, Hisar, India.

9. National seminar and seventeenth annual convention of ISSAR on fertility management of farm animals under adverse agroclimatic conditions. Oct. 6-8,2001,Jodhpur, Rajasthan.
10. National seminar and twenty first annual convention of ISSAR on recent trends and innovations in animal reproduction. Nov. 23-25, 2005.Sher-e- Kashmir University of Agricultural Sciences & Technology, R.S.Pura, Jammu.
11. National seminar on “Emerging issues in cattle & buffalo reproduction and breeding” Oct.26-27,2006.Organized by Uttaranchal Livestock Development Board and Department of LPM , G.B.Pant University of Ag & Tech . Pantnagar, U.S Nagar.
21. Seminar on “Improving socio – economic status of livestock farmers through animal productivity w.e.f. 24-25 Nov., 2006, G.B.Pant University of Ag & Tech., Pantnagar, U.S Nagar. Uttaranchal.
13. Silver Jubilee Convention of ISVM and National Symposium on“Animal welfare and sustainable health through recent therapeutic and disease management strategies. Feb. 26-28, 07.G.B.Pant University of Ag. & Tech., Pantnagar, U.S.Nagar, Uttarakhand.
14. National seminar and 23rd annual convention of ISSAR and National symposium on “Challenges in improving reproductive efficiency of farm and pet animals, Dec. 7-9,2007 College of Veterinary Sciences and Animal Husbandry, Orissa University of Agriculture and Technology , Bhubneshwar. pp: 43.
15. National Symposium on “Current concepts in productivity management in livestock and poultry – Environment, Nutrition and stress, Feb.7-9, 2008. Department of Veterinary Physiology, C.V.A.Sc., G.B.Pant University of Ag. & Tech., Pantnagar, U.S.Nagar, Uttarakhand.
16. National Symposium on “Recent trends in Immuno-biotechnology based biological and their commercialization, Feb.27-29, 2008. Department of Biochemistry and Veterinary Microbiology, C.V.A.Sc.,G.B.Pant University of Ag. & Tech., Pantnagar, U.S.Nagar, Uttarakhand.
17. National symposium on recent trends and future strategies for improved reproduction of livestock, companion and wild animals and 24th annual convention of ISSAR,11-13 Dec. 2008. Karnataka Veterinary and Fishery Sciences University, Bangalore.
18. International symposium and 25th Annual convention of Indian Society for study of Animal Reproduction on “Expanding the horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario”. 10-12 Dec.2009 at Namakkal, Tamil Nadu, India.
19. International symposium and 26th Annual convention of Indian Society for study of Animal Reproduction on “Biotechnologies for optimization of reproductive efficiency of farm and companion animals to improve global food security & human health” G.B.Pant University of Ag.&Tech., Pantnagar, U.S.Nagar, Uttarakhand, India. 10-12 Nov., 2010
20. National Symposium on conventional and modern technology of Animal Breeding organized by department of Animal Breeding and Genetics,13-14 Oct.2010 at G.B.Pant University of Ag.&Tech., Pantnagar, U.S.Nagar, Uttarakhand, India.
21. National symposium on “Reproductive biotechnologies for augmenting fertility and conservation of animal species with special reference to North Eastern hill region” Sept.,27-29,2011 at Central Agricultural University , C.V.A.Sc. Aizawl, Mizoram.

22. National symposium on Addressing Animal Reproductive Stresses Through Biotechnological Tools, AAU, Khanapara, Guwahati, Assam w.e.f. 21-23 November, 2012
23. Brain storming session on “Prioritizing research areas on Nano-Bio-information Technology for Development of North-Western Himalayan State & Strengthening Efforts in Frontier Sciences and Practicing Hi-Tech Research” w.e.f. 12-13 July, 2013 at Department of Molecular Biology & Genetic Engineering, CBSH, G.B.P.U.A&T., Pantnagar, Uttarakhand.
24. National symposium on “Frontier Reproductive Biotechnologies for Enhancing Animal Fertility and Fecundity: Global Perspective” and 29th Annual Convention of The Indian Society for Study of Animal Reproduction, 8-10 January, 2014 at Nagpur (Maharashtra).
25. National symposium on “Research and Innovations to Improve Animal Fertility and Fecundity” Global Perspective” and 30th Annual Convention of The Indian Society for Study of Animal Reproduction, 20-22 Nov., 2014 at Mathura (U.P.).
26. National symposium on “Current Challenges and Opportunities in Animal Reproduction” and 31st Annual Convention of The Indian Society for Study of Animal Reproduction, 03-05 Dec., 2015 at College of Veterinary Sciences, Hebbal, Bengaluru (Karnataka).
27. Presented research paper entitled “Purification and characterization of urinary proteins during early gestation at National symposium and 32nd Annual Convention of ISSAR on “Animal Fertility and Fecundity at Cross road: Addressing Issues Through Conventional and Advanced Reproductive Technologies” held at Sri Venkateshwar Veterinary University, Tirupati (A.P.) w.e.f. 6-8 December, 2016
28. Chairman of the IV session on “Climate change and Animal productivity” at National symposium on “Impact of Climate Change on sustained modern agriculture” held at G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand w.e.f. 16-17 December 2016.
29. Presented research paper entitled “Studies on flunixin meglumine to improve conception following embryo transfer in cattle during National symposium and 33rd Annual Convention of ISSAR on “Use of Reproductive Technologies and Production Improvement in Livestock Species Aiming to Socio-economic Development of Rural Mass” held at Kolkata w.e.f. 9-11 Feb. 2018.
30. Chairman Technical Session, One day National Workshop on Milk Productivity, Quality and Public Health Concern organized by College of Veterinary and Animal Sciences, G.B.Pant University of Ag.&Tech., Pantnagar, U.S.Nagar, Uttarakhand on 01.6.18
31. Presented paper in International exhibition on Agriculture, Animal Husbandry, Poultry and food, 16-18 Nov. 2018 at Lucknow.
32. Attended workshop on doubling farmer’s income on the occasion of National Milk Day on 26th Nov, 2018 at National Agriculture Science Complex, New Delhi.
33. National Conference on “New Horizons in animal health and production, an opportunity to double the income of the farmers. Key note address on 28, Nov. 2018 at Narendra Dev University of Ag.&Tech., Kumar Ganj, Faizabad, U.P.
34. Attended National Seminar on Livestock characterization and registration organized by NBAGR, Karnal at NASC, New Delhi on 03.12.18.

35. Presented research paper at International symposium on “Productivity enhancement through augmenting reproductive efficiency of livestock for sustainable rural economy at Anand Agriculture University, Anand, Gujarat during December 28-30, 2018.
36. Workshop on revision of minimum standard protocol for production of bovine frozen semen. NASC Complex, Pusa, New Delhi on January 16, 2018.
37. Delivered lecture on handling of sexed semen to Chief Veterinary Officers of 24 district of Uttar Pradesh at UPLDB, Lucknow on 04.2.19
38. Presented lecture on uses of sexed semen in bovines to additional directors and chief veterinary officers of Uttar Pradesh during training programme at Animal Husbandry Directorate, Lucknow on 11.2.19
39. Chaired a session on Livestock Development for Societal needs: Extension and Allied Sectors Initiatives. Organized by G.B.Pant University of Agriculture and Technology, U.S.Nagar, Uttarakhand w.e.f.3-5 April 2019
40. Attended seminar on use of sexed semen and its impact on livestock development held at South Dakota, U.S.A. w.e.f.16-23 Sept. 2019
41. Attended and presented research paper in International Symposium and 35th Annual convention of Indian Society for Study of Animal Reproduction on “Global perspective to enhance livestock fertility through modern reproductive techniques for doubling farmer’s income held at Tamil Nadu Veterinary and Animal Science University, Chennai w.e.f.Dec.18-20, 2019.
42. Presented a paper on “Overview of sexed semen and its importance in animal reproduction and productivity at workshop on judicious use of sexed semen in field conditions, organized by Uttar Pradesh Livestock Development Board, Badshahbagh, Lucknow on 20.6.20.
43. Expert, screening of the projects received for funding from Uttarakhand Biotechnology Council, Deharadun w.e.f. 21.2.23-22.2.23 at Biotechnology Bhawan, Haldi, U.S.Nagar, Uttarakhand.
44. Presented paper in 7th International Conference on “Innovative Approaches in Basic and Applied sciences for Societal Development” organized by Scientific, Educational Research Society (SERS) at College of Basic Sciences and Humanities, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand w.e.f.24-25 March, 2023.
45. Attended one day workshop on ‘Multi-Stake Holder Consultative Workshop on National Deep Tech Startup Policy (NDTSP)’ Organized by G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand on 21.09.23.
46. Attended and presented paper on “Innovative approaches to address bovine infertility” in 3rd Biotechnology Conclave & National Conference on Animal nutrition for Animal Health, Welfare, Production and Innovations Organized by “Uttarakhand Council for Biotechnology” Haldi, US.Nagar, Uttarakhand w.e.f. 20-22, 2023.
47. Attended and presented paper on “Structural and hormonal changes in cystic ovarian degeneration (COD) following various treatment protocols during hot and humid climate in cattle organized by Department of Animal Reproduction, Gynaecology &Obsterics, C.V.A.Sc., Kerala Veterinary and Animal Science University, Manuthy during 38th Annual

- Convention of Indian Society for Study of Animal Reproduction (ISSAR) and International Symposium on “Frontiers in Theriogenology: Research and Practice” w.e.f. 6-8 Dec.,2023
48. Attended and delivered presidential address on Challenges in enhancing reproductive efficiency of livestock: an Indian perspective during 39th Annual Convention of ISSAR and National Symposium on “Challenges in enhancing reproductive efficiency of livestock: an Indian perspective” at GADVASU, Ludhiana w.e.f.29th November to 1st December, 2024.
 49. Chaired theme-III on Animal and Aquatic production System during International conference on “Challenges and Opportunity in Agriculture and Allied Sciences: towards Sustainable Agriculture” organized by Society for Advancement in Agriculture and Allied Sciences, Lucknow, U.P. and G.B.Pant University of Agriculture & Technology, Pantnagar, U.S.Nagar, Uttarakhand w.e.f. June 27-29, 2025.
 50. Chaired, Technical Session-1, C.R.Sane Oration in the 40th Annual Convention of ISSAR and International Symposium (ISSARCON 2025 on Animal Reproduction in Changing World: Addressing Challenges and Embracing Opportunities” Dec.10-12, 2025 at Department of Veterinary Gynaecology & Obstetrics, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry-605009, India.

Seminar/Symposium/Workshop/Conferences Organized:

1. Co-Organizing Secretary, International symposium and 26th Annual convention of Indian Society for study of Animal Reproduction on “Biotechnologies for optimization of reproductive efficiency of farm and companion animals to improve global food security & human health”. 10-12 Nov.,2010 at G.B.Pant University of Ag.&Tech., Pantnagar, U.S.Nagar, Uttarakhand, India.
2. Workshop on “Developing strategies for livestock development in Uttaranchal was conducted w.e.f. Aug. 30-31, 2005.

Training Programme Attended: National

1. Training on “Hands on Cloning Research for Quality Animal Production”. Embryo Biotechnology Laboratory, Animal Biotechnology Center, National Dairy Research Institute, Karnal, Haryana from Nov., 21-30, 2011.
2. Application of Embryonic Stem Cells in Livestock Research and Production. Central Institute for Research on Buffaloes (ICAR), Sirsa road Hisar from 10.12.2007 to 19.12.2007.
3. Biotechnological methods to augment fertility and fecundity in farm animals. w.e.f. 10-07-95 to 29-07-95. Tamil Nadu Veterinary and Animal Sciences University, Chennai.
4. Recent trends in obstetrical maneuvers in Veterinary practice w.e.f. 05-08-96 to 19-08-96. Punjab Agricultural University, Ludhiana.
5. Recent development in estrous synchronization and its applications in farm animals 21-07-97 to 30-07-97. Tamil Nadu Veterinary and Animal Sciences University, Chennai.
6. Application of cryopreservation of germ plasm for improving productivity of dairy buffaloes. Central Institute for Research on Buffaloes, Sirsa road Hisar from 1. 6. 2001 to 21.6.2001.
7. Recent techniques in Reproductive Physiology. CAS in Physiology and Climatology Division, IVRI, Bareilly. U.P. w.e.f.14.01.05 to 03.02.05.

Training Programme Organized:

1. DBT sponsored training programme on OPU and In-vitro embryo production was organized by the Department of Animal Reproduction Gynaecology & Obstetrics, C.V.A.Sc., G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand
2. Himachal Pradesh Livestock Development Board sponsored training programme on infertility was organized by the Department of Animal Reproduction Gynaecology & Obstetrics, C.V.A.Sc., G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand.
3. Uttarakhand Livestock Development Board sponsored training programme on infertility was organized by the Department of Animal Reproduction Gynaecology & Obstetrics, C.V.A.Sc., G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand
4. Himachal Pradesh Livestock Development Board sponsored training programme on infertility was organized by the Department of Animal Reproduction Gynaecology & Obstetrics, C.V.A.Sc., total 16 training programmes were organized during 2014-15.
5. Video conferencing on reproductive disease management for 75 districts of U.P. on 04.6.19 at Yojan Bhawan, UP Secretariat, Lucknow, U.P.
6. Conducted a training programme as Co-Cordinator, ICAR SC SP on Entrepreneurship Development Programme on dog rearing w.e.f.21.1.21 to 30.1.21 under ICAR scheduled caste sub plan 2020-21.

Expert Lectures delivered in seminars/symposium/workshops/trainings:

1. Expert lecture delivered at Nana Ji Deshmukh University of Veterinary Sciences, Jabalpur, Madhya Pradesh.
2. Expert lecture delivered at Guru Angad Dev University of Veterinary and Animal Sciences, Ludhiana, Punjab.
3. Expert lecture delivered at Central Institute for Research on Buffalo, ICAR, Sirsa Road, Hisar, Haryana.
4. Expert lecture delivered at West Bengal Livestock Development Board, Calcutta.
5. Expert lecture delivered at Uttarakhand Livestock Development Board, Pantnagar, Udham Singh Nagar, U.K.
6. Expert lecture delivered at Faculty of Veterinary Sciences, Debre Zeit, Ethiopia.
7. Lecture delivered on “Reproductive strategies to enhance conception rate in bovines under field conditions at ICAR-CIRB, Hisar(Haryana) during training programme on 16.2.16
8. Lecture delivered on “Strategies to enhance conception rate following embryo transfer in bovines at Lal Lajpat Rai University of Veterinary and Animal sciences, Hisar (Haryana) on 17.6.17
9. Lecture delivered on “Augmenting luteal phase of estrous cycle following embryo transfer for improving conception in cattle” at Model training course (MTC) on Embryo Transfer Training Programme for Improved Calf Production in dairy farming on 18.11.17 at GADVASU, Ludhiana (Punjab).
10. Lecture delivered at Krishi Kumbh and International symposium “on breed up gradation and issues related to feed and fodder in livestock management” at Lucknow, U.P. 26th October 2018.
11. Two Lectures delivered in One Health Programme for Van Gujjar Community members of U.S.Nagar and Nainital, Uttarakhand organized at G.B.Pant University of Agriculture and Technology, Pantnagar w.e.f.30.8.22 to 31.8.22.
12. Expert lecture delivered at ICAR-Vivekanand Parvatiya Krishi Anusandhan Sansthan, Almora on “Diversification of hill agriculture through Livestock for sustainability and higher profitability”, 5th July, 2023.
13. Shiv Prasad (2025). Delivered training lecture on “Repeat breeding and GPG protocols for improving fertility in bovines” at Technical Executives Training Program, organized by C.V.A.Sc., G.B.Pant University of Agriculture & Technology, Pantnagar 15.4.25.

Training programme for scientists/ officers:

1. **Sixty six** lectures have been delivered during training programme of VO'S of the Govt. of Himachal Pradesh in 2014-15.

2. **Seven lectures** were delivered in various training programmes organized by the University for officers.

Training programme for Summer school/workshop:

1. **Six lectures** were delivered in various training programmes organized by different Universities in the country.

Training programme for farmers/unemployed youth:

1. **Thirty two lectures** were delivered in different training programmes organized by Directorate of Extension, G.B.Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand.

Radio Talks Delivered:

1. **Ten radio talks** were delivered from All India Radio, Rampur, U.P. on various aspects of Management of Infertility in cattle and buffalo.

Lecture delivered to the farmers (2019-2020):

1. Estrous cycle, estrus symptoms and Artificial Insemination in bovines on 23.1.2020 to the farmers of Unnao, U.P. conducted by CDTRI, Lucknow at Pantnagar Extension Directorate, U.S.Nagar, Uttarakhand.
2. Estrous cycle, estrus symptoms and Artificial Insemination in bovines on 23.1.2020 to the farmers of Kanpur Mandal, U.P. conducted by CDTRI, Lucknow at Pantnagar Extension Directorate, U.S.Nagar, Uttarakhand.

Other assignments:

1. **Deputy Coordinator**, Examination (2005-2010)
2. **Staff Counselor**, Veterinary Society for three years.
3. **President**, Indian Society for the Study of Animal Reproduction, Uttaranchal chapter.
4. Elected, **General Secretary** three terms consecutively, Indian Society for the Study of Animal Reproduction (ISSAR) for 2011-2019.
5. Elected, **National President**, Indian Society for the Study of Animal Reproduction (ISSAR) 01.1.2023-31.12.2025



(Shiv Prasad)

Place: Pantnagar
Date: 19.06.2026