

C. V.



1. **Passport Size Photo:**

2. **Name** : Dr Chetna Gangwar

3. **Institution Address& Designation (Present)**

Scientist APR Division, Central Institute For Research On Goats, Makhdoom, po – Farah, Mathura (U.P)

4. **Email:** chetnaom82@gmail.com

5. **Contact Number:** 09412125800

6. **Degree:** M.V.Sc and Ph.D.

7. **Experience:** As veterinary officer --- 5 year
As scientist -- 5.5 year

8. **Awards:**

- **University Scholarship** 2002-2006 for 1st position in B.V.Sc & A.H
- **Winner of 'Brucella & mastitis** diagnosis 2003-04 held at G.B.P.U.A & T. Pantnagar
- **1st runner up in pathological disease diagnosis** 2002-03 held at G.B.P.U.A & T. Pantnagar
- **2nd position in pathological disease diagnosis** 2003-04 held at G.B.P.U.A & T. Pantnagar
- **Intas Neomac Shiksha Award- '2006' For Best Graduate Student**
- **Best paper Award** in "26th Annual Convention of IAVA and National Symposium at DUVASU Mathura, 2-4 Nov 2011.
- **Young Scientist Award** in XXX annual convention of Indian Society for study of Animal reproduction (ISSAR) and national Symposium on Research and innovation to improve Animal Fertility and Fecundity 20-22 November 2014.
- **Rapporteur** in 2nd Annual meeting of society of veterinary science and Biotechnology and National Seminar on "Biotechnological approaches to challenges in animal health and production" (06-07 March,2014)
- **Rapporteur** in XXX annual convention of ISSAR in National Symposium on Research and innovation to improve Animal Fertility and Fecundity 20-22 November 2014.
- **1st prize** in CIRG in Hindi Sodh Patra --- 2013
- **1st prize** in CIRG in Hindi Sodh Patra --- 2014
- **1st prize** in CIRG in Hindi Shabd Anuprayog Pratiyogita --- 2014
- **1st prize** in CIRG in Hindi Ritulekh Pratiyogita --- 2014
- **Appreciation award** by NAIP -- 2014
- **1st prize in Kisan mela in Scientific Knowledge Discrimination** held on 14-15 March 2014 at U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalya evan Go-anusandhan sansthan.
- **Best Hindi article award published in Pasudhan Prakash published by ICAR-National Bureau of Animal Genetic Resources (NBAGR) 2016**
- **Excellent reviewer award (2017)- International Journal of livestock Research.**
- **2nd prize** in CIRG in Hindi Sodh Patra Pratiyogita --- 2017

- **1st prize** in CIRG in Hindi Anuvad Pratiyogita --- 2017
- **1st prize** in CIRG in Hindi Situlekh Pratiyogita --- 2017
- **3rd prize** in CIRG in Hindi Nibandh Pratiyogita --- 2017

9. Area of Interests:

Semen Cryopreservation
Reproductive Biotechnology

10. Publication List:

Number of Research papers Published		Numbers of Students Guided/co guide	Project handles as P.I/CO-PI
Research paper-	29	Guide – One (BSc, Biotechnology)	03
Invited lectures	25		
Books(Chapters)	06		
Lead papers	07		
Semi technical papers -	23		
Abstracts	- 26		
Radio talk	-02		
T.V. Talk	01		

Research Paper

S.P.Singh, I.Singh, G.K. Singh and **Chetna Gangwar** (2008) Light Microscopic Changes in bursa of fabricus of developing Guinea fowl. Journal of Immunology and Immunopathology 10(2); 105-106.

Chetna Gangwar, Shiv Prasad, S.K.Rastogi and J.L.Singh (2009) Effect of L-NAME on luteolysis and estradiol concentration in cyclic Murrha Buffaloes. Indian Journal of Animal Physiology 1(4)27-30.

Chetna Gangwar, Shiv Prasad, J.K.Prasad, S.P.Singh & A.K.Verma (2010) Effect of Nitric oxide synthase inhibitor on progesterone secretions, NO concentration and estrous cycle length in Buffaloes. On Line Journal of Veterinary Research 14(1) 49-55.

S.P.Singh, I.Singh, G.K. Singh and **Chetna Gangwar** and Prabhakar Kumar (2011) Postnatal development of bursa of fabricus in relation to humoral immunity in keets. 13 (1). Journal of Immunology and Immunopathology 13 (1).42-45

S.P.Singh, I. Singh, G.K. Singh and **Chetna Gangwar** (2011) Age related change in hematological parameters of developing keets. Journal of Immunology and Immunopathology 13(1)46-49.

S.P.Singh, I.Singh, G.K. Singh, **Chetna Gangwar** and Prabhakar Kumar (2011) Evaluation of immune Responses of T-Cells in Guinea fowl Journal of Immunology and Immunopathology 13(1) 38-41.

Chetna Gangwar Atul Saxena and S.P.Singh (2012) Multiple congenital malformations in a female calf. Haryana Veterinarian 51(2)127-128.

- Chetna gangwar**, R.Ranjan Satish Kumar, S.D. Karche, A.K.Goel, N.Ramachandran, and S.K.Jindal (2014). Use of chelating agent for optimum post thaw quality of buck Semen. Indian Journal of Animal Sciences 84 (8): 839-841.
- R.Ranjan, A.K.Goel, S.D. Karche, N.Ramachandran, **Chetna Gangwar** and S.K.Jindal (2014). Comparison of normal and dual staining technique for evaluating viability and acrosomal status in frozen thawed buck spermatozoa. Indian journal of small ruminants 20(2) : 50-53.
- Chetna Gangwar**, Ravindra Kumar, S P Singh, Shanker K Singh, M K Srivastava and Atul Saxena (2015). Serum metabolites and macro mineral profile of prepartum buffaloes affected with cervico-vaginal prolapse. Indian Journal of Animal Sciences 85(6): 575-577.
- Chetna Gangwar**, Alok Kumar and Atul Saxena (2014). Post-partum uterine prolapse in a Murrah buffalo- a case report. Polivet Intas, vol (15):57-58.
- Chetna Gangwar**, Ashok Kumar, Alok Kumar and Atul Saxena (2014). Post-Partum uterine prolapse in a Murrah buffalo- a case report. Buffalo Bulletin 33(2) 146-148.
- Chetna Gangwar**, S.D.Kharche, Ravi Ranjan, Satish Kumar, A.K. Goel and S.K. Jindal (2015). Effect of vitamin C supplementation on freezability of Barbari buck semen. Small Ruminant Research (129) 104-107.
- A. K. S. Sikarwar, N. Ramachandran, Ravi Ranjan, **Chetna Gangwar** and Jitendra Kumar Agrawal(2015). Effect of Different Levels of Glycerol and DMSO on Freezability of Buck Semen. Livestock Research International 3(3) 71-73.
- A.K.S Sikarwar, N.K. Sinha, N. Ramachandran, R Ranjan, **Chetna Gangwar** and J.K. Agrawal (2015). SDS-Page Profile of Seminal Plasma Proteins of Sirohi Buck Semen. Ruminant Sciences, 4(2) p 213-214
- Chetna Gangwar**, Akhil Patel, S.P.Singh and Atul Saxena.(2015) . Dystocia Due to an Anterior Duplication Twin Monster In Buffalo. Veterinary Clinical Science, 3(3) p 15-16.
- S.D. Kharche, S.K. Jindal, A.K. Goel, Satish Kumar, **Chetna Gangwar** and Sonia Saraswat. (2015) Zona free hamster ova penetration test: fertility indicator of buck spermatozoa. The Indian Journal of Small Ruminants, 21(1): 118-121
- Chetna Gangwar**, S.D. Kharche, Satish Kumar and S.K. Jindal (2016). Cryopreservation of Goat Semen: Status and Prospects. Indian Journal of Small Ruminants 2016, 22(1): 1-10
- Narendra Kumar, B. Rai, Showkat A. Bhat, S. D. Kharche, **Chetna Gangwar**, S. K. Jindal and Subhash Chandra (2016). Effect of management system and season on semen freezability in Jakhrana bucks. Veterinary World, 9(2): 199-202
- S. D. Kharche, S. Agrawal, J. Pathak, A.K.S.Sikarwar, **Chetna Gangwar**, Ravi Ranjan, A.K. Goel, S.K. Jindal and S.K. Agarwal.(2016). Influence of cysteamine supplementation during in vitro culture of early stage caprine embryos on blastocyst production. Indian Journal of Animal Sciences 86 (3): 304–306.
- Ravindra Kumar, **Chetna Gangwar**, P. Tripathi and U.B. Chaudhary. (2016)Effect of azolla supplementation on semen quality, haematology and rumen metabolites in Barbari bucks. Indian Journal of Small Ruminants 2016, 22 (2): 186-189

- Narendra Kumar, B Rai, **Chetna Gangwar**, Anshuman Kumar, S. D. Kharche, S. A. Lone and S. K. Jindal (2016). libido parameters and their correlation with seminal characteristics in Jakhrana bucks maintained under different systems. *Indian Journal of Animal Sciences* **86** (9): 23–28.
- Narendra Kumar , B. Rai, **C. Gangwar**, G.K. Gaur , S.A. Lone and S.K. Jindal. Effect of management systems on seminal characteristics of Jakhrana Bucks. *Indian Journal of Small Ruminants* 2016, 22(2): 190-192
- Vijay Kumar, S.P. Singh, M.M. Farooqui, **Chetna Gangwar**, Prabhakar Kumar and Ajay Prakash (2017) Histological Changes in Glands of Uterine Horn During Different Stages of pregnancy in goats. *Indian Journal of Small Ruminants* 2017, 23(1): 56-60.
- Vijay Kumar , S. P. Singh , M. M. Farooqui, **Chetna Gangwar** , Prabhakar Kumar and Ajay Prakash (2017). Acid and Alkaline Phosphatase Activity in Uterus of Goat in Different Stage of Pregnancy. *International Journal of Livestock Research* Vol 7 (7): 92-97.
- Kharche S.D., Pathak J., Sikarwar A.S., **Gangwar C.**, Priyadharsini R, Ranjan, R., Goel, A.K., Jindal S.K. and Chauhan, M.S. (2017) In vivo Transfer of Reconstructed Goat Chimeric Embryos Produced by Microinjection of Embryonic Stem Cells into Tetraploid IVF Embryos. *JSM Cell Dev Biol* 5(1): 1021.
- Narendra Kumar, B. Rai , **Chetna Gangwar** , S.A. Lone, Anshuman Kumar, S.K. Gupta and Vipin Maurya. (2018). Effect of different levels of egg-yolk on freezability of Jakhrana buck semen *Indian J. Anim. Res.*, 52 (1): 20-24
- Akhil Patel, Rabindra Kumar, R.K. Verma, Rajesh Kumar and **Chetna Gangwar**.(2018) Management of pre-partum recto-vaginal prolapse in a cow. *International Journal of Current Microbiology and Applied Sciences*, 7 : 1244-1247.
- Chetna Gangwar**, Atul Saxena, Akhil Patel, S P Singh, Sarvajeet Yadav, Ravindra Kumar and Vijay Singh. (2018) Effect of Reduced Glutathione Supplementation on cryopreservation induced Sperm cryoinjuries in Murrah Bull semen. *Animal reproduction science*. DOI <https://doi.org/10.1016/j.anireprosci.2018.03.005>

Review Articles

- Chetna Gangwar**, S.D. Kharche, Satish Kumar and S.K. Jindal (2016). Cryopreservation of Goat Semen: Status and Prospects. *Indian Journal of Small Ruminants* 2016, 22(1): 1-10

Lead paper:

- Gangwar Chetna**, Ranjan R., Kharche S.D., Kumar Satish, Jindal S.K. and Agarwal S.K. (2014) : Cryopreservation of Goat Semen : Present status and Future prospects. *Sheep and Goat Biodiversity and breeding policies-Issues and perspective and Annual conference of Indian Society for sheep & Goat Production & held on Krantsinh Nana patil College of Veterinary Science, Shirwal (Satara) 21-22 February, 2014. p. 346-361.*

- Kharche S.D., **Gangwar Chetna** and Agarwal S.K. (2014) : Animal Cloning : Technological Development for future application. National Symposium on “Frontier Reproductive Biotechnologies for enhancing Animal fertility and fecundity global perspective and XXIX annual convention of India society for study of animal reproductive” held on MAFSU, Nagpur. p. 297-311.
- Kharche S.D., **Gangwar Chetna**, Ranjan R., and Agarwal S.K. (2014): Reproductive technologies for enhancing animal production. 2nd Annual meeting of society of veterinary science and Biotechnology and national seminar on Biotechnologies approaches to challenges in animal health and production held on 6-7 March,2014 U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalya evan Go-Anusandhan Sansthan, Mathura. p. 72-79.
- Ranjan R., **Gangwar Chetna**, Kharche S.D., Jindal S.K., and Agarwal S.K. (2014): Future prospects of embryonic stem cell in small ruminants. Sheep and Goat Biodiversity and breeding policies-Issues and perspective and Annual conference of Indian Society for sheep & Goat Production & held on Krantisinh Nana patil College of Veterinary Science, Shirwal (Satara) 21-22 February, 2014. p. 230-24
- Kumar Satish, Ranjan R. and **Gangwar Chetna**. (2014) Advances in reduction of cryodamages to sperm cell. Sheep and Goat Biodiversity and breeding policies-Issues and perspective and Annual conference of Indian Society for sheep & Goat Production & held on Krantisinh Nana patil College of Veterinary Science, Shirwal (Satara) 21-22 February, 2014. p. 230-241.
- S. D. Kharche, **Chetna Gangwar** and M. S. Chauhan (2017). Applications of assisted reproductive techniques in changing climatic scenario. Workshop on Commercial and Backyard goat farming with scientific approach by Rajasthan Science Congress held at Amity University Jaipur, 13-14 october, 2017. p. 4.
- Jindal S.K., Goel A.K., Kharche S. D., Ranjan R., **Gangwar Chetna** and Chauhan M. S. (2017). Application of assisted reproductive technologies for quality goat production. National seminar on small ruminants: National scope on up-scaling production to products value addition and their safety held at CIRG, Makhdoom, Farah,Mathura on 9-10 November,2017.p.50-52.

Lectures / Chapters

1. M. S. Dige, M. K. Singh, P. K. Rout, Chetna Gangwar and S. K. Singh (2014). Importance of Record keeping in farm animals. In: Model Training Course on “Sustainable Development through Improved Goat Husbandry Practices” November 14-21, 2014: Published by CIRG, Makhdoom. Pg 97-106.
2. V. Sachan, A. Patel and Chetna Gangwar (2016). Headways in method of oestrous detection in bovine. In: Trainer’s training manual on “ Artificial insemination in bovine & reproductive health management in dairy animalas. DUVASU, Mathura pg 12-16.
3. Ravi Ranjan and Chetna Gangwar (2017). Artificial insemination in Goats. In: paravets training manual on “Scientific Goat Farming” sponsored by Chief District Veterinary Officer, Kendrapada (Odissa) under National Livestock Mission, held from 6-9 september, 2017 at ICAR-CIRG, Mathura 69-72.
4. Chetna Gangwar, Ravi Ranjan and S.D. Kharche (2017). Cryopreservation of Spermatogonial stem cells. In: National Training Manual on “ Spermatogonial stem cell biology” sponsored

by Department of Biotechnology (Govt. of India) under the twinning programme for North east region held at CIRG, Makhdoom, Farah, Mathura (UP) on Nov13-22, 2017,pg 41-49.

5. S.D. Kharche, S.P. Singh, Ravi Ranjan and Chetna Gangwar (2017). Stem cells and their applications as biotechnological tool for reproductive management of farm animals. In: National Training Manual on “ Spermatogonial stem cell biology” sponsored by Department of Biotechnology (Govt. of India) under the twinning programme for North east region held at CIRG, Makhdoom, Farah, Mathura (UP) on Nov13-22, 2017,pg 4-10.
6. Ravi Ranjan, Chetna Gangwar, S.D. Kharche and S.P. Singh (2017). Factors influencing isolation and invitro culture of spermatogonial stem cells. In: National Training Manual on “ Spermatogonial stem cell biology” sponsored by Department of Biotechnology (Govt. of India) under the twinning programme for North east region held at CIRG, Makhdoom, Farah, Mathura (UP) on Nov13-22, 2017,pg 36-40.

Semi technical articles

S.P.Singh, Munish batra, **Chetna Gangwar** and G.K.Singh (2005): Guinea Fowl farming advantages over Conventional Poultry Farming. Poultry Line: 18-20.

S.P.Singh, Munish batra, **Chetna Gangwar** and G.K.Singh (2007): Important aspects of Guinea fowl farming: Poultry Line 33-37.

R.Ranjan, **Chetna Gangwar**, and N.Ramachandran (2013) Beta Defensins : Can protect sperm from immunological Aggression by female. CIRG News IX.

Gangwar Chetna, Ranjan Ravi and Kharche S.D. (2014). Himikrit Virya Dwara Bakriyon Mein Kritim Garbhadhan, Kheti pp. 17-18.

Gangwar Chetna, Ranjan R. and Jindal S.K. (2014). Fertility associated Proteins: Can be used as fertility marker. CIRG news.

Chetna Gangwar, S.D. Kharche, S.P. Singh.(2016). Dairy Goat: Profits and Scope. Vol. 68 No. 3.Indian Dairyman. pp 88-92.

Akhil Patel, **Chetna Gangwar**, Jitendra Agrawal, Alok Kumar Yadav and Atul Saxena. (2016). Pasu prajanan sambandhi Jahreele Paudhe. *Krishak Aaradhana*. **03(24)**: 07.

Akhil Patel, **Chetna Gangwar**, Jitendra Kumar Agrawal, Alok Kumar Yadav and Atul Saxena. (2016). Kritrim Garbhadhan: Takneek Ek Fayde Anek. *Krishak Aaradhana*. **03(29)**: 06.

Chetna Gangwar, S.P. Singh and Akhil Patel. (2017). Impact of A1 and A2 milk on health . *Indian Farmer's Digest*. **51(02)**: 16-18.

S.P.Singh, **Chetna Gangwar**, and Akhil Patel. (2017). Bakri Palan: Gramin Anchal me ek Vardan. *Pashudhan Patrika (DUVASU, Mathura)*. **11(1)**: 4-5.

Chetna Gangwar, S.P.Singh, Ravi Ranjan and A K Sikarwar (2018). Bakri Palan hai : Atirikt aamdani ka shrot. Kheti.73-75.

एस0पी0 सिंह, **चेतनागंगवार**, जे0वाई0 बघाये एवं डी0एन0 वर्मा (2006). गो पशुओ का संतुलित आहार व्यवस्था इण्डियनकाऊए वाल्यूम-3, इस्सू-9 पेज नं0 56-58 ।

चेतनागंगवार, एस0पी0 सिंह, जी0के0 सिंह एवं एच0एन0 सिंह (2006). गल घोटू : गो पशुआ में महामारी |इण्डियनकाऊ, वाल्यूम-3, इस्यू-9 पेज नं0 53-55।

एस0पी0 सिंह, चेतनागंगवार, अमित सिंह एवं एच0एन0 सिंह (2006). उन्नत पशु-पालन समय की आवश्यकता |पूर्वान्चल खेती-10, पेज नं0 20-23।

एस0पी0 सिंह, चेतनागंगवार, एच0एन0 सिंह एवं ई0एन0 यादव (2006). भैंस पालन समस्याय, निदान एवं सम्भावनायें |पूर्वान्चल खेती-11, पेज नं0 45-47।

एस0पी0 सिंह, चेतनागंगवार एवं जी0के0 सिंह (2006). विश्व एवं भारतीय अर्थव्यवस्था में गाय का महत्व। द इण्डियनकाऊ, दिसम्बर, 2006।

चेतनागंगवार, एस0पी0 सिंह, जी0के0 सिंह एवं आर0एस0 चौहान (2007). गो-पशुओं के आहारमें खनिज तत्वों का महत्व। द इण्डियनकाऊ, वाल्यूम-4, इस्यू-10 पेज नं0 23-24।

एस0पी0 सिंह, चेतनागंगवार, अमित सिंह एवं एस0 के0 सिंह (2007) गो-पशुओं के लिए चारा संरक्षण महत्व। द इण्डियनकाऊ, वाल्यूम-4, इस्यू-10 पेज नं0 24-27।

रवि रंजन एवं चेतना गंगवार (2014) नस्ल सुधार के लिये बकरों का चयन। अजामुख 29:6

चेतना गंगवार, रवीन्द्र कुमार एवं रवि रंजन (2013) बकरियों के उत्तम प्रजनन हेतु खनिज तत्वों की महत्ता। अजामुख 28:2।

चेतना गंगवार, रवि रंजन एवं एस0डी0 खर्चे (2014) हिमीकृत वीर्य द्वारा बकरियों में कृत्रिम गर्भाधान।

खेती दुनिया, पटियालाए किसान मेला विशेषांक (बढिन्डा) : 12।

अजुन कुमार सिंह सिकरवार, चेतना गंगवार, रवि रंजन एवं एस0डी0 खर्चे (2014) असाध्य रोगों के उपचार की असीम सम्भावनाओं को तलाशती वंश कोशिकायें : पशुधन प्रकाश, पंचम अंक

: 114 - 116

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