#### SHAILENDRA KUMAR MISHRA, PhD

Scientist-B ICMR-RMRC, Gorakhpur II P I

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#### CAREER OBJECTIVE

In pursuit to reach the zenith of my career as a researcher and an academician of excellence in Biological Sciences. Focused on interdisciplinary research with a result-oriented work approach and on learning new skills and sharpening the existing ones. Driven to excel by my passion for payback to society through translational research with the ability to influence people and initiate change.

#### ACADEMIC CREDENTIALS

• 2013-2017: Doctor of Philosophy (Biotechnology)

Gautam Buddha University, Gr. NOIDA, India, Work done at National Bureau of Animal Genetic Resources (ICAR-NBAGR), Karnal, India.

**Ph.D. thesis title:** "Evolutionary lineages of MHC Class II genes and association of allelic diversity with mastitis in Indian buffaloes".

• 2009-2011: Master of Science (Biotechnology)

Chaudhari Charan Singh University, Meerut, U.P., India

**M.Sc. thesis title:** "Comparative study of antimicrobial activity by methanolic extract of coriander & turmeric"

• **2006-2009: Bachelor of Science (Life sciences)** VBS Purvanchal University, Jaunpur, U.P., India.

#### RESEARCH EXPERIENCE

Nov. 2020 to Present	Scientist B, COVID-19 Project at ICMR-RMRCGKP.
Jul. 2018- Jan. 2020	<b>Postdoctoral fellow</b> , Sichuan Agricultural University, Sichuan, China. (Project: "Effects of intestinal microorganism on egg production and its mediated transcriptional regulation in chickens".
Oct. 2017- March 2018	<b>Project Assistant,</b> at the Buffalo Genomics Lab, ICAR-National Bureau of Animal Genetics Resources, Karnal, India. (Bio-CARe project: "Exploring genetic diversity across MHC class II locus and its association with differential immune response indicus, crossbreed and exotic cattle"), funded by DBT, Government of India.
Nov. 2012- Oct. 2013	<b>Senior Research Fellow,</b> at the Buffalo Genomics Lab, ICAR-National Bureau of Animal Genetics Resources, Karnal, India. (Project: "Toll-like receptors in farm animals-Evolutionary lineages and application in disease resistance"), funded by NAIP.

# TRAINING/ WORKSHOP PURSUED\_

- ➤ Training course in Engineering Mammalian Cells with CRISPR Tools, held at CSIR-Center for Cell and Molecular Biology (CCMB), Hyderabad, India, under the skill development program organized during 6<sup>th</sup> to 17<sup>th</sup> february, 2018 (2-week).
- Participated in one day workshop on **FACS** at BD Biosciences, New Delhi.
- ➤ Bioinformatics for conservation and improvement of animal genetic resources, held at ICAR-NBAGR, Karnal, India, under the NAIP subproject "Establishment of national agricultural bioinformatics grid (NABG) in ICAR" organized during 18<sup>th</sup> to 28th february, 2013 (11days).
- ➤ M. Sc. Summer training on "Industrial Training in *Advanced Biotechnology, Molecular Biology, Microbiology & Biochemistry*", from Clonegen Biotech Pvt Ltd Noida (1st July to 17th August, 2010).

## Molecular cell biology

DNA/RNA purification from tissues, blood, milk, urine, semen samples, designing of primers for different types of PCR and genotyping methods such as: Tetra-primer ARMS PCR, PCR-RFLP, real-time PCR (qRT-PCR), Sangers sequencing, detection of polymorphisms and employment of SNPs on a large number of animals. Isolation and culturing of neutrophils and lymphocytes for ligands stimulation for expression analysis of different immune-related genes such as TLRs, NLRs, and Cytokines. RACE, western blot, ELISA.

## Genome editing and engineering

 Design of sgRNA, donor oligos, and donor-targeting vectors, cloning of sgRNAs, preparations of CRISPR constructs for transfections, Cell culture, transfections and selection of CRISPR transfected cells, genotyping to identify indel knockout cells, Co-transfection of CRISPR and donor construct for generating knock-in, genotyping and confirmation of CRISPR based knock-in cells. Bacterial culture handling, preparation of competent cells, gene cloning and cryopreservation of clones, construction of recombinant plasmids, handling of mammalian cells and cell culturing (neutrophil and lymphocyte culture), confirmation and counting of chromosomes numbers in different species using cytogenetic tools.

## Bioinformatics and computer proficiency for molecular work

 Data Analysis by using variable software: R, Adobe Illustrator (AI), MeV, NEB cutter (Restriction enzyme), NEBuilder, SnapGene, DNASTAR, NCBI, Sequin, PDB, SMART, Expasy, MS Excel, MS Word, Ensemble, TESS, TFSearch, Alibaba, SPSS program, GenAlex, DnaSP, Network, MEGA, etc.

# PUBLICATIONS 2022

1. Deval H, Nyayanit DA, **Mishra SK**, Yadav PD, Zaman K, Shankar P, Misra BR, Behera SP, Kumar N, Kumar A et al. (2022). Genome Sequencing Reveals a Mixed Picture of SARS-CoV-2 Variant of Concern Circulation in Eastern Uttar Pradesh, India. **Frontiers in Medicine**, 8:781287. https://doi.org/10.3389/fmed.2021.781287 (IF: 5.091).

# **2021**

- 2. Reddy MM, Zaman K, Mishra SK, Yadav P, Kant R: Differences in age distribution in first and second waves of COVID-19 in eastern Uttar Pradesh, India. Diabetes Metab Syndr 2021, 15:102327. https://doi.org/10.1016/j.dsx.2021.102327.
- **3.** Su Y, Tian S, Li D, Zhu W, Wang T, **Mishra SK**, Wei R, Xu Z, He M, Zhao X, et al. (2021). Association of female reproductive tract microbiota with egg production in layer chickens. *GigaScience*, **10**, 1-16 (IF: 6.524).
- **4.** Kumari N, **Mishra SK**, Saini S, Kumar A, Loat S, Dhilor N, et al. (2021). Identification of novel allelic patterns and evolutionary lineage of BoLA MHC class II DQA locus in indicine and taurine cattle. *Animal biotechnology*, 1-7. https://doi.org/10.1080/10495398.2021.1885426. (IF: 2.282).

#### 2020

**5. Mishra, S.K.**, Niranjan, S.K., Singh, R., et al. (2020). Diversity analysis at MHC class II DQA locus in buffalo (Bubalus bubalis) indicates extensive duplication and trans-species evolution. *Genomics*, 112, 4417–4426. https://doi.org/10.1016/j.ygeno.2020.07.041. (IF: 6.205).

- **6. Mishra, S.K.**, Chen, B., Zhu, Q., et al. (2020). Transcriptome analysis reveals differentially expressed genes associated with high rates of egg production in chicken hypothalamic-pituitary-ovarian axis. *Scientific Reports*, https://doi.org/10.1038/s41598-020-62886-z. (IF: 3.998).
- 7. Liu, X., Mishra, S.K., Wang T. et al. (2020). AFB1 induced transcriptional regulation related to apoptosis and lipid metabolism in liver of chicken. *Toxins*, https://doi.org/10.3390/toxins12050290 (IF: 3.895).
- 8. Chen, M., Zhang, S., Xu, Z., Gao, J., Mishra, S.K., Zhu, Q., . . . Li, D. (2020). MiRNA Profiling in Pectoral Muscle Throughout Pre- to Post-Natal Stages of Chicken Development. *Frontiers in Genetics*, 11, 570. (IF: 3.258).
- **9.** Singh R., Kumar L.S., **Mishra S.K.**, Gurao A. et al. (2020). Mitochondrial sequence-based evolutionary analysis of riverine–swamp hybrid buffaloes of India indicates novel maternal differentiation and domestication patterns. *Animal Genetics*, 51, 476-482. (IF: 2.841).

#### 2019

- **10.** Zhao, G., Ma, T., Tang, W., Li, D., **Mishra, S. K.**, Xu, Z., Wang, Q., and Jie, H. (2019). Gut Microbiome of Chinese Forest Musk Deer Examined across Gender and Age. *BioMed Research International*. https://doi.org/10.1155/2019/9291216. (IF: 2.197).
- **11.** Su, Y., Jie, H., Zhu, Q., Zhao, X., Wang, Y., Yin, H., **Mishra, S. K.**, and Li, D. (2019). Effect of Bitter Compounds on the Expression of Bitter Taste Receptor T2R7 Downstream Signaling Effectors in cT2R7/pDisplay-Ga16/gust44/pcDNA3. 1 (+) Cells. *BioMed Research International*. https://doi.org/10.1155/2019/6301915. (IF: 2.197).
- **12.** Su, Y., Wang, T., Wu, N., Li, D., Fan, X., Xu, Z., **Mishra, S. K.**, and Yang, M. (2019). Alphaketoglutarate extends Drosophila lifespan by inhibiting mTOR and activating AMPK. *Aging (Albany NY)*, **11**:4183-4197. https://doi.org/10.18632/aging.102045. (IF: 5.515).
- **13.** Hang Jie, Pu Zhang, Zhongxian Xu, **Shailendra Kumar Mishra**, Meiyan Lei, Dejun Zeng, Guijun Zhao, and Diyan Li (2019). microRNA and Other Small RNA Sequence Profiling across Six Tissues of Chinese Forest Musk Deer (*Moschus berezovskii*). *BioMed Research International*. https://doi.org/10.1155/2019/4370704. (IF: 2.197).
- **14. Mishra SK**, Dubey PK, Goyal S, Singh S, Yadav N, Niranjan SK, Vohra V, Mukesh M, and Kataria RS (2019). Identification of polymorphism in stanniocalcin-1 gene of buffalo (Bubalus bubalis) and its expression analysis in lactation stage specific mammary gland. *Journal of Genetics*, 98: 38. https://doi.10.1007/s12041-019-1082-5. (IF: 0.825).
- **15. Mishra SK**, Dubey PK, Dhiman Asmita, Dubey Shubham, Verma Deepu, Kaushik AC, Singh Ravinder, Niranjan SK, Vohra V, Mehrara KL, Kataria RS (2019). Sequence-based structural analysis and evaluation of polymorphism in buffalo Nod-like receptor-1 gene, *3Biotech*, **9**:26. (IF: 1.786).
- **16. Mishra SK**, Gonge DS, Behl Jyotsna, Biswas TK, Sivalingam Jayakumar, Kataria RS, Niranjan SK (2019). Allelic diversity and locus duplication at the MHC Class II DQ sub-region in the Indian yak population. *Animal genetics*, **50**:112-113. (IF: 2.244).
- **17.** Tang W, Zhu G, Shi Q, Yang S, Ma T, **Mishra SK**, Wen A, Xu H, Wang Q, Jiang Y, Wu J, Xie M, Yao Y, Li D (2019). Characterizing the microbiota in gastrointestinal tract segments of Rhabdophis subminiatus: Dynamic changes and functional predictions. *Microbiologyopen*, 7:e789. https://doi.org/10.1002/mbo3.789. (IF: 2.738).
- **18.** Kumari N, Kumar A, Goyal S, Dubey PK, **Mishra SK**, Ahlawat S, Kataria RS (2019). Evaluation of therapeutic potential of recombinant buffalo lactoferrin N-lobe expressed in E. coli. *Animal Biotechnology*, **17**:1-7. https://doi.10.1080/10495398.2019.1570224. (IF: 1.263).
- **19.** Kumar DR, Sivalingam J, **Mishra SK**, Kumar A, Vineeth MR, Chaudhuri P, Kataria RS, and Niranjan SK (2019). Differential expression of cytokines in PBMC of Bos indicus and Bos taurus × Bos indicus cattle due to Brucella abortus S19 antigen. *Animal Biotechnology*, **5**:1-7. https://doi.10.1080/10495398.2018.1555167. (IF: 1.263).

## 2018

- **20. Mishra SK,** Niranjan SK, Banerjee B, Singh Ravinder, Kumar P and Kataria RS (2018). Identification of novel allelic variants at the MHC class II DQA locus in Murrah water Buffalo, *Animal genetics*, **49**(5):497-498. (IF: 2.244)
- **21.** Xu Z, Che T, Li F, Tian K, Zhu Q, **Mishra SK**, Dai Y, Li M, Li D. The temporal expression patterns of brain transcriptome during chicken development and ageing. *BMC genomics*, 19(1):917. (IF: 3.501).
- 22. Mishra SK, Niranjan SK, Banerjee B, Singh R, Singh RV, Kumar N, and Kataria RS (2018). Genetic diversity at MHC-DRB3 locus suggests distinctness of the riverine-swamp buffalo populations in North-East region of India. *Indian Journal of Animal Research*, 52(6):820-823. https://doi.10.18805/ijar.v0iOF.8000 (IF: 0.437).
- 23. Mishra, S.K., Mishra, A.K., Raja K.N., Vohra V., Singh, S., Singh, Y., Ahlawat, S., and Kataria, R.S. (2018). Polymorphism analysis at FecB locus in Kajali sheep of India. *Indian Journal of Animal Research*. 52(3) 2018:474-476. doi:10.18805/ijar.v0i0f.3796. (IF: 0.437).
- **24.** Singh R, Rajesh C, **Mishra SK**, Gurao A, Vohra V, Niranjan SK, Kataria RS. Comparative expression profiling of heat-stress tolerance associated HSP60 and GLUT-1 genes in Indian buffaloes. *Indian Journal of Dairy Science*. 2018 **71**:183-6.

#### **2017**

- **25.** Dhiman, A., **Mishra, S.K.,** Dubey, P.K., Goyal, S., Sehgal, M., Niranjan, S.K., Sodhi, M., Mishra, B.P. and Kataria, R.S. (2017). Identification of genetic variation in NOD-like receptor 2 gene and influence of polymorphism on gene structure and function in buffalo (Bubalus bubalis). *Research in Veterinary Science*, **115**:43-50. (IF: 1.751).
- **26.** R. Singh, **S. K. Mishra**, C. Rajesh, S. K. Dash, S. K. Niranjan and R. S. Kataria (2017). Chilika- A Distinct Registered Buffalo Breed of India. **Int. J. Livest. Res. 7**:259-266.
- **27.** P.K. Dubey, S. Dubey, S.K. Mishra, R. Arora, J. Patel, K.P. Singh, P. Kathiravan, B.P. Mishra, R.S. Kataria (2017). PCR-SSCP analysis of MDGI gene and its association with milk production traits in river buffalo (Bubalus bubalis). *Research in Veterinary Science*. **115**:307-309. (IF: 1.751).
- **28.** Kumar, R., **Mishra, S.K.,** Kumar, A., Srivastava, S., Lathwal, S.S., Bhatia, A.K., Kataria, R.S. and Niranjan, S.K., 2017. Exploring polymorphism of prolactin gene and its possible association with repeat breeding in buffaloes. *Gene Reports*. **8**:24-29.

#### 2016

- **29. Mishra, S.K.**, Niranjan, S.K., Banerjee, B., Dubey, P.K., Gonge, D.S., Mishra, B.P. and Kataria, R.S. (2016). High genetic diversity and distribution of Bubu-DQA alleles in swamp buffaloes (Bubalus bubalis carabanesis): identification of new Bubu-DQA loci and haplotypes. *Immunogenetics*, **68**:439-447. (IF: 2.492).
- **30.** P.K. Dubey, S. Goyal, Namita, **S.K. Mishra**, S.K. Gahlawat and R.S. Kataria. (2016). Differential expression of Toll-like receptor genes (TLR2 and TLR4) across different tissues of riverine buffalo. *Indian Journal of Animal Sciences*, **86**:51-54. (IF: 0.227).
- **31.** Dubey, P.K., Goyal, S., **Mishra, S.K.**, Arora, R., Mukesh, M., Niranjan, S.K., Kathiravan, P. and Kataria, R.S. (2016). Identification of polymorphism in fatty acid binding protein 3 (FABP3) gene and its association with milk fat traits in riverine buffalo (Bubalus bubalis). *Tropical Animal Health and Production*, **48**:849-853. (IF: 0.227).
- **32.** Niranjan, S.K., Goyal, S., Dubey, P.K., Kumari, N., **Mishra, S.K.**, Mukesh, M. and Kataria, R.S. (2016). Genetic diversity analysis of buffalo fatty acid synthase (FASN) gene and its differential expression among bovines. *Gene*, **575**:506-512. (IF: 2.638).

#### 2015

**33.** Dubey, P.K., Goyal, S., **Mishra, S.K.**, Yadav, A.K., Kathiravan, P., Arora, R., Malik, R. and Kataria, R.S. (2015). Association analysis of polymorphism in thyroglobulin gene promoter with milk production traits in riverine buffalo (Bubalus bubalis). *Meta gene*, **5**:157-161.

- **34.** Dubey, P.K., Goyal, S., **Mishra, S.K.**, Mukesh, M., Mishra, B.P. and Kataria, R.S. (2015). Sequence characterization and expression analysis of mammary gland derived osteopontin gene of river buffalo. *Indian Journal of Animal Sciences*, **85**:161-164. (IF: 0.227).
- **35.** Pothuraju, M., **Mishra, S.K.**, Kumar, S.N., Mohamed, N.F., Kataria, R.S., Yadav, D.K. and Arora, R. (2015). Polymorphism in the coding region sequence of GDF8 Gene in Indian Sheep. *Russian Journal of Genetics*, **51**: 1119-1122. (IF: 0.459).

## 2014

- **36.** Dubey, P.K., Goyal, S., Yadav, A.K., Sahoo, B.R., Kumari, N., **Mishra, S.K.**, Niranjan, S.K., Arora, R., Mukesh, M. and Kataria, R.S. (2014). Genetic diversity analysis of the thyroglobulin gene promoter in buffalo and other bovines. *Livestock Science*, *167*:65-72. (IF: 1.376).
- **37.** Goyal, S., Dubey, P.K., Sahoo, B.R., **Mishra, S.K.**, Niranjan, S.K., Singh, S., Mahajan, R. and Kataria, R.S. (2014). Sequence based structural characterization and genetic diversity analysis across coding and promoter regions of goat Toll-like receptor 5 gene. *Gene*, *540*:238-245. (IF: 2.638).

#### 2013

**38.** Dubey, P.K., Goyal, S., Kumari, N., **Mishra, S.K.**, Arora, R. and Kataria, R.S., (2013). Genetic diversity within 5' upstream region of Toll-like receptor 8 gene reveals differentiation of riverine and swamp buffaloes. *Meta gene*, *1*:24-32.

#### POPULAR /TECHNICAL ARTICLES

1. R. Singh, S. K. Mishra, C. Rajesh, S. K. Dash, S. K. Niranjan and R. S. Kataria., 2017. Chilika- A Distinct Registered Buffalo Breed of India. Int. J. Livest. Res. 7:259-266.

## **BOOK CHAPTERS**

- 1. R.S. Kataria, S. K. Mishra, S.K. Niranjan (2017). Identification and genotyping of functional markers for improvement of livestock. Page no. 203-208, ISBN: 978-93-83537-37-2.
- 2. R.S. Kataria, S. K. Mishra, Namita Kumari and SK Niranjan (2017). Diversity and evolution of immune response genes in livestock species adapted to different agro-climatic conditions. In Management of Animal Genetic Resources under Climate Change and Socio-economic Perspectives. Ed. Raja K N, Sonika Ahlawat Indrajit Ganguly and Arjava Sharma. Published by ICAR-NBAGR, Karnal, India, ISBN: 978-93-83537-38-9.

## **Presentations and Conferences**

#### **International**

- 1. <u>S. K. Mishra</u>, Binlong Chen, Diyan Li. *Transcriptome analysis of high and low rates of egg production across hypothalamic-pituitary-gonadal axis in chicken*. **Twentieth Chinese National Conference on Animal Genetics & Breeding, China**. 5th-8th December, 2019.
- 2. <u>S. K. Mishra</u>, S. K. Niranjan, B. Banerjee, D. S. Gonge and R. S. Kataria. *High genetic diversity and distribution of Bubu-DQA alleles in swamp buffaloes (Bubalus bubalis carabanesis): Identification of new Bubu-DQA loci and haplotypes.* 35th International Society for Animal Genetics Conference held at Utah, USA on 23<sup>rd</sup> to 27<sup>th</sup> July, 2016.

#### **National**

- 3. S. K. Mishra, S.K. Niranjan, B. Banerjee and R.S. Kataria. Extensive Diversity at Immune Responsive MHC Class II Genes in Indian Water Buffaloes: An Evidence of Higher Diseases Resistance. National seminar on the theme "Biodynamic Animal Farming for Management of Livestock Diversity under the Changing Global Scenario" & XIV (SOCDAB) at College of Veterinary and Animal Sciences, Mannuthy, Thrissur on 8-10 February, 2017.
- **4.** S. K. Mishra, S.K. Niranjan, B. Banerjee and R.S. Kataria. *Identification of allelic diversity at MHC-DQB locus in Indian water buffalo and its evolutionary lineages with other bovine species*. The international conference of SBBS on the theme "Recent trends in bioinformatics and biotechnology for sustainable development" organized at SKUAST, Jammu in **Young scientist session**, 12<sup>th</sup> -13<sup>th</sup> October, 2017.

- 5. S. K. Mishra, D. S. Gonge, J. Behl, P. J. Das, et al. *High variability at MHC class II loci indicates genetic fitness and adaptability in swamp buffalo, mithun and yak populations of North East region of India*. National seminar on the theme "Biodynamic Animal Farming for Management of Livestock Diversity under the Changing Global Scenario" & XIV (SOCDAB) at College of Veterinary and Animal Sciences, Mannuthy, Thrissur on 8-10 February, 2017.
- **6.** <u>S. K. Mishra</u>, Asmita, P. K. Dubey, S. Goyal, S. K. Niranjan, R. S. Kataria. *Genetic diversity analysis across coding regions of nucleotide-binding oligomerization domain-1 (NOD1) among indian buffaloes and detection of novel splice variants* in XII Agricultural Science Congress, 3-6 February, 2015.
- 7. S. K. Mishra, S. K. Niranjan, B. Banerjee, DS Gonge and R S Kataria. *Genetic diversity at MHC-DQA and DQB loci indicates positive selection in Indian swamp buffalo*. International Symposium on "Sustainable management of animal genetic resources for livelihood security in developing countries" & XII Annual Convention of Society For Conservation of Domestic Animal Biodiversity (SOCDAB) at Madras Veterinary College (TANUVAS), Chennai on 13-14 February, 2015.
- **8.** <u>K. Mishra,</u> P.K. Dubey, S. Goyal, S. Nain, et al. *Polymorphism detection and genetic diversity analysis of toll-like receptor 1 gene across riverine and swamp buffaloes.* (SOCDAB) at ICAR-NBAGR, Karnal, 2014.
- 9. <u>S. K. Mishra</u>, P. K. Dubey, S. Goyal, Namita Singh, et al. Differentiation of riverine and swamp buffaloes based on genetic variation within 5' upstream region of Toll-like receptor 8 gene. (SOCDAB)-2013 G. B. Pantnagar university of agriculture and technology Uttarakhand, India.

## SEQUENCES SUBMITTED IN NCBI DATABASE

Several gene sequences were submitted into GenBank.

DQA (67 alleles)- KP010341-KP010352, KX789001-KX789037, KX792879-KX792883

DQB (28 alleles)- KU201580-KU201596, KX789038- KX789048

DRB3 (14 alleles)- KX789049- KX789062

DRA (6 alleles)- KX789063- KX789068

#### REVIEWER

- ➤ *Aging (Albany NY)* (ISSN: 1945-458)
- > Animal Biotechnology (ISSN: 1049-5398)

## MEMBERSHIP

- Life member of Society for Conservation of Domestic Animal Biodiversity (SOCDAB)-2017.
- ➤ Life member of Society for Bioinformatics and Biological Sciences (SBBS)-2017

# KEY STRENGTHS

- Planning and execution of research projects.
- Independent and teamwork.
- ➤ Positive and capable of proving myself
- ➤ Good written and spoken communication skill.

## LANGUAGE PROFICIENCY\_\_\_\_\_

> English, Hindi

## AWARDS AND ACCOLADES

- > Dr. Pushkar Nath Bhat Best Paper Award 2021 by The Indian Society of Animal genetics and breeding, New Delhi (India)
- > Travel Grant (\$ 2400.00) from the organizing committee to attend the 35<sup>th</sup> International Society for Animal Genetics conference held at Salt Lake City, Utah, USA, 2016.
- First prize in Hindi research poster competition organized by ICAR-NBAGR, Karnal in 2013.
- ➤ Third prize in Hindi poster competition on subject "Mera Gavn Mera Gaurav" organized by ICAR-NBAGR, Karnal in 2017.

#### PERSONAL DETAILS

Name : Shailendra Kumar Mishra Father's Name : Mr. Vinod Kumar Mishra

Sex: Male | Date of birth: 5 Jan 1991 | Nationality: Indian

Marital Status : Married

Permanent Address : C/o Ramjeet mishra, Vill- Kuthuli, Post-Belgahan, Jaunpur-222161, U.P., India

#### REFERENCES

#### 1- Dr. R. S. Kataria (Principal Scientist)

Animal Biotechnology Division, ICAR-NBAGR Karnal-132001, Haryana, India, Phone no. +91-9416344825, **E-mail**: katariaranji@yahoo.co.in

## 2- Dr. Kamran Zaman (Scientist 'E')

ICMR-Regional Medical Research Center (RMRC), Gorakhpur-273013, UP, India Phone no. +91-8725939378 **E-mail**: drkamran.niv@gmail.com

# 3- Dr. Bhaswati Banerjee (Assistant Professor)

School of Biotechnology Gautam Buddha University, Gr. Noida-201312, UP, India. Tel.(O): +91-120-2344287, Email: <a href="mailto:contactbhaswati@gmail.com">contactbhaswati@gmail.com</a>

#### **DECLARATION**

I hereby declare that the details furnished above are true and correct to the best of my knowledge.

Place: Gorakhpur

Date: 28/04/2022 (S. K. Mishra)